

Committee and Professional Development Group Minutes

STANDING COMMITTEES

Food Protection Trends Management Committee

Members Present: Faith Critzer (Chair), Matthew Taylor (Vice Chair), Catherine Cutter, Mark Berrang, Alejandro Echeverry, Yaohua (Betty) Feng, Joshua Gu rtler, Montserrat Iturriaga, Ian Jenson, Linda Leake, Susan McKnight, and Amie Minor.

Outgoing Members Present: Francisco Diez, Veny Gapud, and Christina Wilson.

New Members Present: Dennis D'Amico, Sally Klinect, Bobby Krishna, William Shaw, and Kelly Stevens.

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

Visitors/Guests: Balasubramanian Ganesan, Ahyoon Kim, Jeong-Eun Lee, Jeffrey LeJeune, Randall Phebus, Kurt Rueber, and Amarat Simonne.

Number of Attendees: 33.

Minutes Recording Secretary: Matthew Taylor.

Meeting Called to Order: 2:00 p.m., Sunday, July 8, 2018.

Faith Critzer asked attendees for any additions or modifications to the agenda; none were provided. Faith proposed that Linda Harris discuss outcomes on a Scientific Integrity Consortium where she represented IAFFP. Her discussion will be moved to the agenda after approval of 2017 Minutes. Faith welcomed everyone and thanked the outgoing members for their service.

Old Business: Minutes from the 2017 Meeting: Faith asked for any questions or edits. No changes voiced; Sue and Linda moved to approve and second, respectively. The motion was approved.

Review of Responses to 2017 Executive Board Recommendations: The Board approved Matthew Taylor as Vice Chairperson and addressed awards' metrics.

FPT Readership Survey Report: Faith reminded everyone that the Committee was interested in knowing the membership's views on the journal. A subgroup was completed on surveying membership feel. Faith took away a generally positive impression. May 3–17 release for completion; 517 respondents; 13% response rate. Greater than 90% were satisfied or very satisfied with the journal, indicating Members are finding value. Most are reading online which surprised Faith. Only 15% are using only print. Greater than 85% accessing online are satisfied or very satisfied. Of 70% surveyed who didn't read, most were unaware of its existence. Can improve membership's awareness. GI papers and refereed papers are most popular for readers. No obvious target for non-valuable paper type. Overall, frequency of every 2 months was liked. Greater than 70% of published in *FPT* would publish. Unlikely to publish was impact factor.

In reviewing the survey, were there any standout issues? Dennis D'Amico asked why authors who've published chose to publish in *FPT*. Cathy indicates quick turn-around and the ability to publish quickly. This aids young faculty on tenure application by getting their publications out. Faith asked about releasing data. Cathy indicated general interest papers are appropriate. Ben indicated transparency to potential changes. Recommended to Executive Board to write and publish a general interest pa-

per to update IAFFP membership on the outcomes of the *FPT* membership survey, including demographic data of respondents. The paper should address key learnings/findings, and plans to address the opportunities identified for initiatives based upon findings.

FPT Award Recipients: Recipients will be recognized at the Editorial Board Reception at 4:30 p.m. The awards have been expanded. Now includes a most-cited award for peer-reviewed research along with most-viewed peer review and general interest papers. Last year the Committee proposed an award for a most downloaded for peer-review and general interest publications, which was approved by the Board. However, when evaluating the metrics this year, it was decided that most viewed captured this information. It was recommended that we remove most downloaded peer-review and general interest publication. Recommend to Board to remove this award category (most downloaded: general interest and peer-reviewed).

Scientific Editor Report (Cathy Cutter): Cathy provided her report; modified from previous years. 2017–2018 metrics from Allen Press data source. Increases in submissions from 2017, and some recent submissions/resubmissions. References continue to hold up publication of papers due to errors in formatting or incomplete. More attention paid to references formatting and correctness. On track for 2018 submissions and publications. Faith: with reference to citations, is it clarity of directions or failure to format properly. The problems produced by EndNotes can be the issue. Cathy is very impressed with the international-sourced papers accepted for publication. Inviting authors from international symposia and this is benefitting by having more papers submitted. Randy Phebus – two papers listed as inappropriate for 2018 and eight for 2017; what are the problems? In some instances, reviewers deemed them not appropriate, and in others, Cathy tagged them as inappropriate. Some are from authors that did not read the author guide. Dennis D'Amico asked whether the count includes papers rejected pre-review. Cathy indicated rejected identifies only papers that were reviewed. Donna Bahun: References are problematic sometimes during revision too. Appropriate use of acronym or agencies. Clarification must be given as to agency use and acronyms usage.

Ben Chapman asked whether we need Board approval, or we can make our own move? Faith asks that we revisit author guide and use of agencies as authors. Recommend to Board that we revisit and clarify rules/guidance on references and agency authorship identification. Anonymous authorship for agency versus non-anonymous? These are key problems.

Faith thanked Donna and Cathy for their work and contribution to the journal's work and upkeep.

New Business:

Scientific Integrity Consortium Discussion (Linda Harris): Linda was invited in 2017 to participate in the Consortium with a resulting publication detailing best practices and scientific integrity. IAFFP worked on this process and is now moving forward on implementation. The Consortium met in 2017 in Washington, D.C. A manuscript submitted to Science and Engineering Ethics and is currently in press. Participants included AAAS, ASM, AND, APLGU, Cornell, U. British Columbia, IAFFP, and IFT. Linda presented a number of best practices identified in the forthcoming manuscript of particular interest to IAFFP and its Members:

- Encourage reproducibility of research through transparency. Enhance reproduction through journals to author checklists to assess experimental design rigor. Details on experimental design and statistics.

- Strive to establish open access science throughout the scientific enterprise.
- Develop and implement tools to teach communication tools that uphold scientific integrity. Meaning and importance and limits of work. Referred to student lunch and skill at rapid and meaningful research communication.
- Strive to further strengthen peer review process related to issues of COI between reviewers and authors. Issues of authorship, and training of peer reviewers/training guide.
- Encourage journals to publish unanticipated findings. Remove the stigma related negative data; changing term to unanticipated results. Place value on these data types for publication by discouraging replication of research that does not advance science forward.
- Rapid and consistent transparent processes for rapid retraction and/or publication of manuscripts. Retraction was distinguished from correction needs. Recommendations for differing terminology in order to differentiate for authors and reviewers.
- Design rigor and comprehensive for evaluation criteria of researchers that recognizing high integrity in scientific research. Additional metrics for researchers beyond impact factor and publications count. How to credit other metrics besides these traditional metrics. Wednesday will hold a session on predatory journals and conferences; help to identify them. The paper will be disseminated once published, but there will be effort to identify IAFP's ongoing efforts and needs that remain.

Francisco Diez asked whether there was discussion or concern over plagiarism and occurrence? Linda indicated many contributors were clinicians and trials weren't repeatable. Plagiarism does occur and indicated tools available to avoid plagiarism and need to publish. Refers to H-factor and other unethical choices made in publications. Sue McKnight indicated plagiarism versus "fake news." Linda responds that unfair criticisms can also negate useful science by misrepresentation. Linda Leake asked about consortium's life cycle? Linda Harris responds that one meeting and the manuscript were completed. ILSI is asking for IAFP endorsement of the manuscript and an action plan to implement recommendations/best practices. Faith asked about how *FPT* can play role. Cathy suggested a General Interest paper would be of great interest. An Executive Summary would be useful for publishing as a general interest paper in *FPT*. Linda Harris agreed to develop a general interest paper summarizing the findings once the manuscript is released.

Initiatives to improve *FPT* visibility (Faith Critzer): Discussed different approaches for raising the profile of *FPT* amongst Members and non-members. Various strategies were discussed using social media and podcasts improve the visibility of work published in *FPT* and for the journal as a whole. Faith asks for a subcommittee to develop recommendations and processes to move forward. Volunteers for the subcommittee include Ben Chapman, Kelly Stevens, Faith Critzer, Sue McKnight, Cathy Cutter, Matt Taylor, and Josh Gurtler. Faith will initiate and set up a meeting for the group. Lisa Hovey and Manan Sharma will also be included as outside Members.

Cathy asked about requesting bulleted highlights to further distill findings and outcomes from articles published in *FPT*, which was also discussed in *JFP* Management Committee meeting. Recommend to Executive Board to form *FPT* subcommittee to determine methods for improving *FPT* visibility, in consort with *JFP* subcommittee.

Recommendations to the Executive Board:

1. The Committee recommends to the Executive Board that a General Interest paper be prepared and submitted for publication in *Food Protection Trends* detailing the outcomes of the Scientific Integrity meeting and best practices as detailing the working group's soon to be published manuscript. The *FPT* paper should detail the best practices, identify IAFP's ongoing programs that aid in addressing and implementing identified best practices, and identify areas where IAFP can assist its members in adhering to best practices.

2. The Committee recommends to the Executive Board that language in the *FPT* Author Guidelines be reviewed and revised to clarify the appropriate formatting of journal citations, with special reference to cited documents/articles/reports by agencies (e.g., FDA, USDA). The correct formatting of these citations should be clarified to assist the timely completion of article processing.
3. The Committee recommends to the Executive Board that a General Interest paper be developed to update IAFP membership on the outcomes of the *FPT* membership survey, including demographic data of respondents. The paper should address key learnings/findings and plans to address the opportunities identified for increasing the visibility of *FPT* amongst membership as well as outside IAFP.
4. The Committee recommends to the Executive Board that awards for Most Downloaded General Interest and Most Downloaded Peer-Reviewed papers be discontinued. It has been observed that for 2018, the data are not robust, and mirror outcomes of data analysis for most viewed awards.
5. The Committee recommends that a subcommittee (F. Critzer, B. Chapman, C. Cutter, D. Bahun (IAFP Staff), S. McKnight, J. Gurtler (*JFP* Management Committee), M. Sharma (*JFP* Management Committee), M. Taylor, and L. Hovey (IAFP Staff)) be devised to investigate and identify methods for increasing the visibility of *FPT* amongst IAFP membership, the utility of various social media tools for assisting this effort, and to potentially require the inclusion of Highlights for all submitted manuscripts.

Next Meeting Date: July 21–24, 2019, Louisville, KY.

Meeting Adjourned: 3:45 p.m.

Chairperson: Faith Critzer.

Journal of Food Protection Management Committee

Members Present: Sean Leighton (Chair), Fred Breidt (Vice Chair), Joshua Gurtler, Lauren Jackson, Elliot Ryser, Panagiotis Skandamis, Faith Critzer, Peter ben Embarak, John Donaghy, Peyman Fatemi, Sanjay Gummalla, Deon Mahoney, Ynes Ortega, Patricia Rule, Manan Sharma, and Hyun-Gyun Yuk.

Outgoing Members Present: Vijay Juneja, Alejandro Castillo, and Laurie Post.

Board/Staff Present: Linda Harris, Kalmia Kniel, Mickey Parrish, Didi Loynachan, Lisa Hovey and David Tharp.

Visitors/Guests Present: Betty Yaohua Feng, Balasubramanian Ganesan, Maha Hajmeer, Ahyoon Kim, Yeong-Eun Lee, and Guodong Zhang.

Number of Attendees: 31.

Meeting Called to Order: 10:05 a.m., Sunday, July 8, 2018 by Sean Leighton.

Recording Secretary of Minutes: Laurie Post.

Old Business: Committee reviewed minutes from the 2017 *JFP* Management Committee meeting. A motion was approved to accept the 2017 minutes, as written. No edits were needed.

New Business: Retiring members: Vijay Juneja (Outgoing Chair), Alejandro Castillo, Laurie Post, and Dike Ukuku were thanked for their service to the Committee.

New members: John Donaghy, Peter Ben Embarek, Peter Evans, Sanjay Gummalla, Jeffrey Lejeune, Deon Mahoney, and Ynes Ortega were welcomed.

No additions to agenda. It was approved as distributed.

Election of Vice Chair: Fred Breidt was elected as Vice Chair of the Committee.

Reappointment of Scientific Editors: Lauren Jackson and Elliot Ryser both agreed to remain as Co-Editors for another four-year term beginning January 1, 2019 to December 31, 2022.

Scientific Co-Editors Report: Panos Skandamis provided the journal's Scientific Editors' Report. Highlights include that Vol. 80 (2017) included 2,152 pages and 265 articles (255 research articles). By comparison, Vol. 78 published in 2015 contained 2,312 pages and 302 articles, which included 295 research papers and notes and 10 mini-review, review and general interest papers. Volume 80 contained ten fewer articles than 2017.

The decrease in manuscript submissions was discussed. Articles are of higher quality and reputation is recognized. One concern is the impact factor is below other publications and this somewhat discourages authors. Remedy has been to have faster review and publication times and publish more mini-reviews and reviews that have higher citation rates. Responsiveness to authors is a metric to consider. These changes are having an effect (M. Parrish). The average length of time between receipt of manuscripts and their publication decreased in 2017 compared to 2016 due to articles being published online ahead of print. The average time was 7 months, a month decrease. Submission rate reviewed by J. Gurtler and the editors recently sent out an additional solicitation for this year.

Dr. Frank retired in 2018 after serving the journal for 16 years. On Jan 1 2017, a new Scientific Co-Editor was elected, Dr. Joshua Gurtler, from the USDA ARS.

The Editorial Board consisted of 159 members, with 52 representing non-USA countries. Members serve 3-year terms and anyone interested in reviewing manuscripts on an ad-hoc basis or serving on the Editorial Board should contact the editors. An evaluation process for reviewers was discussed. With shorter time allowed for review, there could be an issue with "superficial" reviews. Dr. Skandamis commented that this was mitigated to some extent by the editors' role in assessing reviews for issues.

Dr. Skandamis concluded by stating that the "John N. Sofos Most Cited Publication Awards" and the "Most-downloaded Publication Award" would be awarded again this year at the Editorial Reception. For more details about the journal in 2016, please see the Scientific Editors' report and the Administrative Editor's report prepared by Didi Loynachan.

Administrative Editor's Report: Didi and the Editors met twice by conference call since last July to discuss procedural issues and ways to promote manuscript submissions, increase contact with reviewers, and increase usage through article collections.

Changes were made to the table of contents in the print issues. Articles are listed by paper type and in page number order to match the online issue. TrendMD was added to the website in 2017. There was a 2.83% increase in visitors over the first five months of 2018 due to connections to other journal websites.

Since the move to Pinnacle, usage of *JFP* articles is up. In 2018 to date, there were more than 320,000 downloads and this is on track to surpass the 2017 downloads (375,706).

During 2017, 27 open-access articles were published. To date in 2018, 13 authors with accepted papers have selected open access with 10 published in the first seven issues. To date, one general interest, one mini-review and six review papers have been published.

The 2017 impact factor data was released by Clarivate just prior to the meeting indicating a slight increase from 1.417 to 1.510.

Consortium on Scientific Integrity Update: Linda Harris.

Consortium members are ILSI, NA, and NAS. Standardized ethical principles and best practices to promote scientific integrity in published research. Impact on and opportunities for *JFP* should be evaluated. Sean will set up a conference call with several members to discuss.

Volunteers to Promote *JFP* via Social Media: Didi mentioned that as part of *JFP*'s marketing plan, focused tweets by Editorial Board Members and authors are encouraged. Plain-language summaries to distribute. Tweet through Kudos with links to *JFP* website. Manan and Sean will send instructions on how to advertise articles through various social media venues to members of the Committee. Twitter Analytics can provide useful metrics. Recommend the establishment of a separate *JFP* Twitter account.

Update on Author Instructions: Was approved by IAFP Board. The expanded scope includes Whole Genome Sequencing and Food Defense topics as examples. Chemical contaminants also added.

Published Metrics Discussion: A comprehensive review of different indices to measure journal health and impact was briefly presented. Sean will send information to the Committee.

Review Articles: Dr. Skandamis indicated a set number should not be targeted but reviews are important to include.

Overview of *JFP* Citation and Usage Data Analysis Report: The report by Judy Luther was sent to Committee members. Highlights will help direct marketing efforts. Visibility is important to authors. Publishing highlights and short summaries will increase visibility. Recommendation to include these by some means will be determined.

IAFP Board Action: Articles published from 1967 to present are on the website. The Board approved action to place Volumes 1 (1937) through 29 onto the website so that they can be accessed.

Unfinished Business: Discussion on the addition of methods papers to the journal. Need to first frame a definition of a methods paper. Special article collections will be discussed at the later time.

Recommendations to the Executive Board:

1. In an effort to increase engagement of the journal with IAFP Members, the Committee would like to recognize the John N. Sofos Most-cited *JFP* Research Publication Awards at the Awards Banquet reception on Wednesday nights during the IAFP Annual Meeting.
2. The Committee would like to explore the use of podcast technology and potentially partner with existing podcasts to further engage members of IAFP and the scientific community in *JFP*. The podcasts could be 10–15 minute "interviews" with *JFP* publication authors, explaining the research in a casual, informative manner.
3. The Committee would like to request the Board approve *JFP* to require submitting authors to include a "highlights" section in all paper submissions to expand the journal's internet discoverability and impact on the scientific community.
4. Recommend approval of Fred Breidt as Vice Chairperson.
5. Recommend the Board approve the establishment of a separate *JFP* Twitter account.
6. To appoint both Elliot Ryser and Lauren Jackson as Scientific Editors for *JFP* for 4-year terms ending December 31, 2022.

Next Meeting Date: July 21–24, 2019, Louisville, KY.

Meeting Adjourned: 12:11 p.m.

Chairperson: Sean Leighton.

Program Committee

Members Present: Mark Moorman, Kalmia Kniel, Tamara Ford, Laura Brown, Doris D'Souza, Michelle Danyluk, Heidi Den Besten, Martin Duplessis, Janell Kause, Laurie Post, Carrie Rigdon, Manpreet Singh, Tori Stivers, Jarret Stopforth, Benjamin Warren, Pamela Wilger, and Christina Wilson.

Members Absent: Laura Brown.

Outgoing Members Present: Renee Boyer, Yuhuan Chen, Caroline Smith DeWaal, and Peter Taormina.

Staff Present: Tamara Ford.

Number of Attendees: 22.

Minutes Recording Secretary: Tamara Ford.

Meeting Called to Order: 7:30 a.m., Wednesday, July 11, 2019.

The meeting began with introductions. The Outgoing Committee Members Renee Boyer, Yuhuan Chen, Caroline Smith DeWaal, and Peter Taormina were recognized for their service.

Tamara explained the process for the 2019 submissions and the timeline was reviewed.

IAFP 2018 Evaluation – The Committee provided feedback concerning IAFP 2018.

1. Speaker substitutions were frequent. Tamara estimated half of the proposed speakers (from the initial proposal submission from October 2017) were replaced.
2. The Committee discussed the format of roundtables. The Committee would like to see a session room dedicated to roundtables. More direction for moderators regarding how to properly facilitate is needed.
3. Volunteer roles. The Committee should be thinking of others to recommend for mentors, student competition judges and technical session convenors. We'll discuss at the Louisville Program Committee meeting.

Recommendations to the Executive Board:

1. Evaluate start and break times to allow attendees more time at posters and exhibits during morning and afternoon breaks.

Next Meeting: Conference call in late October or early November.

Meeting Adjourned: 8:30 a.m.

Chairperson: Mark Moorman.

SPECIAL COMMITTEES

3-A Committee on Sanitary Procedures

Members Present: Steven T. Sims (Vice Chair), Angela Anandappa, Allen Saylor, Ron Schmidt, Frederick Stokes, and Dimitri Tavernarakis.

New Members Present: Vidya Ananth, David Blomquist, Stephanie Brown (Student Liaison), Cigdem Caban, Nathan Decker, Denise DuFresne, Catherine Gensler (Student Liaison), Terry Howell, J. Michael Hudson, Mark Kreul, Teresa Olson, Brian Poon, Tim Rugh, Amarat Simonne, David Soper, and Stephen Walker.

Visitors: Jacquelyn Adams, Ariel Babilonia, Tom Berry, Cheryl Burn, Erdogan Ceylan, Hongjian Ding, Robert Fuller, Balasubramanian Ganesan, Marco Guzman, David Harris, Erin Headley, Amit Kheradia, Ahyoon Kim, Vaneer Komolprasert, Audrey Kreske, Jeong-Eun Lee, Rachel McEgan, Molly Mills, Stephanie Olmsted, Brian Ramsaur, Rachel Rodriguez, Sara Schoen, Jennie Thomas, Dan Vassar, and Hsin-bai Yin.

Total Number of Attendees: 47.

Meeting called to Order: July 8, 2018, 10:00 a.m.

All attendees introduced themselves and the IAFP Antitrust Guidelines were read.

Old Business:

The 2017 Minutes were approved unanimously after a motion by Ron Schmidt, which was seconded by Allen Saylor.

2017 Recommendations to the Executive Board were reviewed.

The Board's response to the recommendation to add a PDG specifically for FSMA indicated PDGs already cover the subject of FSMA, but if a new PDG is warranted, a group of Members can request to start a new one. The Board agreed with the recommendation to approve Carianne Endert-Klaasen and Brook Leguineche as Co-Chairpersons and Steven Sims as Vice Chair.

New Business: Introduction to the IAFP 3-A Committee on Sanitary Procedures (CSP) and 3-A Sanitary Standards Incorporated (3-A SSI) – PowerPoint presentation-based discussion. Steven Sims.

Brain Storming Session – Proposal ideas: Symposia, Short Symposia, Roundtable and Workshop topics for further development (chaired by Steven Sims – not prioritized and based on notes taken by Dr. Ron Schmidt).

1. Fundamentals of Hygienic Design of Food Processing, Handling and Packaging Equipment – Commonalities Among Equipment Design Standards. This full symposium will address the many internationally recognized food processing, food

handling and food packaging equipment design standards and identify their common hygienic design fundamentals with the intent of providing the audience information to evaluate, assess, inspect and write their own equipment hygienic design standards. Another potential outcome is the development of food processing, food handling and food packaging equipment design standards widely accepted around the world. Some internationally recognized equipment hygiene standards include, but are not limited to:

- 3-A SSI
- EHEDG
- AMI (Meat)
- NSF
- National Restaurant Association
- USDAAMS
- ISO
- GSFI including SQF, BRC, IFS, FSSC22000

Another benefit is for state and FDA field staff attending this symposium is the new emphasis in the FDA FSMA regulations on hygienic food processing equipment design without much specificity in the current regulations or accompanying guidelines.

2. Identifying and Addressing Fundamental GAPS in Food Processing, Handling and Packaging Equipment Hygienic Design" – This short symposium will identify noticeable gaps in hygienic design for important food processing, food handling, food packaging, food storage and food transportation equipment. Examples include but are not limited to:
 - fresh produce washing, processing, handling and packaging equipment
 - Food processing, packaging and storage robotics
 - Retail and institutional food processing, handling and packaging and serving
 - Electronic Shielding of equipment control and data collection wiring and systems in food processing plants to assure authenticity
 - Equipment Used to Clean and Sanitize food processing, handling, packaging, storage and transport equipment
3. Title #1: Advanced Techniques and Tools Available for Verification of Food Processing equipment cleaning and sanitization
4. Title #2: Pathways to Verification of Hygienically Designed Food Processing Equipment.
 - Beverages and Liquid Foods and Beverages
 - Meat Products
 - Dairy Products
 - RTE Foods
 - Fresh Produce
 - Seafood and Shellfish
 - COP Systems
 - CIP Systems
 - Manual Systems
5. Effective Tools and Equipment for Cleaning and/or Sanitizing Exterior Surfaces of Raw Produce, Meat Carcasses Seafood and Eggs.
6. Required Components of an Effective Written SSOP Model to Address Hygienic Cleaning and Sanitizing of Food Processing Equipment.
7. New Validation Tools for Confirming Hygienic Design of Food Processing, Food Handling, Food Packaging and Food Storage Equipment.
8. Hygienic Design and Cleaning Challenges of Plastic and Rubber Surfaces of Food Processing Equipment.

Recommendations to the Executive Board: None.

Next Meeting Date: July 20, 2019 Louisville, KY.

Meeting Adjourned: 12:00 p.m.

Vice Chairperson: Steven T. Sims.

Committee for Control of Foodborne Illness

Members Present: Ewen Todd (Chair), Judy Greig (Vice Chair), Kari Irvin, Michael Batz, Sherri McGarry, Bobby Krishna, Barry Michaels, David Nicholas, Ben Tall, Phyllis Posey, Michael Roberson, Carl Custer, and Amarat Simonne.

New Members Present: Kurt Rueber and Steve Maudernach.

Board/Staff Present: Timothy Jackson.

Visitors: Hussain Azzam, Robert Strong, and Danah Vetter.

Number of Attendees: 19.

Meeting Called to Order: 8:10 a.m., Sunday, July 8, 2018.

Minutes Recording Secretary: Judy Greig.

Old Business: Ewen shared the statement from IAFF regarding acceptable activities in Committees and requested changes to the agenda. Additions were made by Barry Michaels and Michael Roberson.

Tim Jackson Board Report: Tim submitted a report on behalf of the Board. Membership was up to 4,300 members but mainly from the USA; membership flat abroad and in Canada. IAFF Annual Meetings are so large that there are few locations in the U.S. and even fewer in Canada (2) to host these meetings. For boosting Canadian membership, maybe regional IAFF meetings could be held in smaller Canadian cities. It is hard to get symposia accepted (90/220); alternative means of communication can be considered like webinars or even workshops. Impact factor decreasing for *JFP* which means we need to get better quality manuscripts. PDGs need to include more students. Possibly awards could be given to students active in the Committees. Ewen suggested a student could be assigned by the Student PDG to CCFI and be given appropriate tasks that would both help the Committee and be an incentive for the career advancement of the student. To do this, the CCFI would like to see the list of students who were supported by IAFF. Foundation is doing well but there are restrictions on the amount of travel funds that can be awarded. Recommendation: A student be assigned to work with the CCFI during the year including at the Annual Meeting.

Results of Symposia Planning from Last Year: Most symposia suggestions were rejected by the Program Committee: 2018 Foodborne Outbreak Updates was accepted, and all the talks should be interesting: Monday, July 9, 2018 at 8:30 a.m. – 12:00 p.m. The Committee held two conference calls during the year (May and June) which were helpful for symposium development.

Discussion of Progress on Manuals:

1. The 7th edition of the *Procedures for Investigation of Foodborne Illness Manual* would probably be published in 2021 or 2022 but the timing would depend on where there are gaps or errors. Tim Sly of Ryerson revised the waterborne manual epidemiological tables and maybe these should be considered for the foodborne manual. For the foodborne manual we need Whole Genome Sequencing (WGS), but the guidelines have not been finalized yet but probably would be by 2020. WGS will open up a lot of challenges for investigation, etc. Many outbreaks now are not just complaint-driven but recognized through laboratory analysis and social media as well. An update will need to increase 3-day food history to 5–7 days. Dave Nichols and Kari Irvin agreed to look the present manual over and report back in one month.
2. *Diseases Transmitted by Foods Manual* (3rd edition) need experts in plant toxins, chemicals and parasites for updates.
3. The *Vector-borne and Rodent-borne Manual* is being updated. Judy has contacted Canadian experts and has suggestions for international experts who could contribute. A document from the EU ECDC on field sampling methods for mosquitoes, sandflies, biting midges and ticks – has just been released and is being reviewed. Michael Roberson will have her in contact with a retired vector specialist, Zia Ziddiqi, from Orkin. The North American Pest Control Association Conference for Food Protection have a mandate to look at all manuals.
4. General discussion on the manuals: CDC has officers come in each year to FDA and we could get copies into their hands

through the EIS program; Sherri is willing to work on it. The Board assigned Springer to be the publisher of the manuals, but the cost has increased substantially making bulk purchases expensive for cash-strapped local health departments or even state departments. Keeping costs down for the next editions will be important to consider. Having CDC and other epidemiological experts working on the manuals could be one of the best ways to bring them into our group. One means of getting recognition for epidemiologists at the IAFF meeting is the Ewen C. D. Todd Control of Foodborne Illness Award. Maybe CCFI members can recommend future recipients, such as from CDC. Michael Batz says we should have a schedule for development of each manual revision.

5. The 100 Year History of the Committee is in draft form but a shorter version could be drafted to help the membership understand the history and work of the Committee and how it is different from PDGs.
6. A survey of IAFF members to determine their food safety habits began development last year with input from Ben Chapman, Ian Young and Christine Bruhn. Need to agree on questions and implement the survey. Board has approved this activity. This is being reactivated for early 2019. Michael Batz wants it to move quickly. It was suggested that to compare this with the food safety habits of the general public, a huge Google sample of the public could be generated, but not at the same timeframe. To do any survey requires funds: this could come from the Foundation or be sponsored by an organization or industry.

New Business:

Transition after 2020: The Committee needs individuals who will be committed to the work of the Committee. Both Ewen and Judy have been Chair/Vice Chair since 2000, and it will be time to look to fill both these positions after 20 years. The CCFI members present felt there will still be a need for the foodborne and waterborne manuals in the future especially for local health departments. Because of an increase in vector-borne diseases due to climate change it is important to update the *Vector-borne and Rodent-borne Manual*. There was also discussion about the role of CCFI acting more as a PDG and it is possible that the PDG component could be slotted at a different time spot from the manual discussion time. Since 2010, manual revisions have been championed by one member who brings in external experts to write or review any changes and works with the Chair for consistency. The Board has on occasion supported separate working meeting times for those finalizing manuals or scientific review papers.

Potential Symposia Topics:

1. Culture Independent Diagnostic Testing (CIDT) – What Does It Mean for Public Health and industry?
2. International Approaches to the Safe Use of Irrigation and Wash Water in the Face of Water Shortages.
3. How Do We Measure the Effectiveness of Regulatory Food Safety Programs?
4. Impacts of Marine Biotoxins and Lessons from the Past to Protect the Future.
5. Root Cause Analysis to Involve the Identification of Human Factors.
6. Outbreaks and Recalls from Eggs: Prevention and Control Strategies.
7. Are We Reaching the Millennium Goals for Food Safety?
8. Navigating Food Safety Across Cultures: Adopting New Foods.
9. Food Safety Impacting Tourism and Travel.
10. Coconuts for *Salmonella*: Lessons Learned from Recent Outbreaks.
11. Lessons Learned from the 2018 Romaine Outbreak in Arizona.
12. 2019 Foodborne Outbreak Update.

Recommendations to the Executive Board:

1. Recommend the Board should investigate means to fund specific Committee on Control of Foodborne Illness activities such as the member survey.

2. Recommend the manuals should be better advertised and promoted at international meetings as well as at the Annual Meeting.
3. Comments from some state users indicate that the manuals would be more useful if they were interactive. For instance, they say that even the online versions are in pdf format and they have to be downloaded rather than fillable. This may be a Springer way of controlling downloadable purchases but not useful for those doing investigations. The Board can consider working with IT savvy members who can review what can be done to make the manuals more interactive.
4. Because CCFI meets all day at the Annual Meeting and it is difficult for PDG members to meet and discuss issues relating to foodborne illness at this particular meeting, one suggestion would be for PDG Chairs/Vice Chairs who have an interest in outbreak investigation, prevention, and control of foodborne illness related to their membership, exchange ideas for symposia, manuals, publications, etc., on a periodic basis throughout the year with the Chair/Vice Chair of the Committee on Control of Foodborne Illness.
5. Recommend a student from the Student PDG be assigned to work with the Committee on Control of Foodborne Illness during the year including at the Annual Meeting. Students rarely attend the Committee on Control of Foodborne Illness meetings.
6. Since attendance by Canadians at IAFP Annual Meetings is limited because it is considered foreign travel and membership has not grown, the Board should consider a regional Canadian food safety meeting, as is done for the rest of the world, such as in Winnipeg or Ottawa.

Next Meeting Date: July 21–24, 2019, Louisville, KY.

Meeting Adjourned: 5:30 p.m.

Chairperson: Ewen C. D. Todd.

Constitution and Bylaws Committee

Members Present: Melanie Neumann-Cherney (Chairperson), Michelle Danyluk, Zeb Blanton, Kathy Glass, William Huntley, Bobby Krishna, Steve Murphy, Jennifer Quinlan, Jenny Scott, and Caroline Smith DeWaal.

Board/Staff Members Present: Ruth Petran and David Tharp.

Visitors/Guests Present: Tracy Fink.

Number of Attendees: 13.

Meeting Called to Order: 11:05 a.m., Sunday, July 8, 2018.

Minutes Recording Secretary: Michelle Danyluk.

Old Business: The Minutes from the 2017 meeting were reviewed. A motion to approve was made by Zeb Blanton, seconded by Jenny Scott and approved.

Development of a Roberts Rules of Order Overview Presentation for the PDG Chairs and Vice Chairs: On Sunday Afternoon, Bill Huntley presented an overview of Roberts Rules of Order at the PDG Chair and Vice Chair meeting. The presentation was handed out to all members of the Constitution and Bylaws Committee and reviewed. The presentation, while quick, was also well received by the attendees, many recorded some notes, and feedback was positive. There is still confusion from PDG Chairs and Vice Chairs about what parts of a PDG meeting are covered by Roberts Rules of Order.

A discussion of how to proceed with a review of Roberts Rules of Order for Chairs and past Chairs was tabled until new business.

Quorum Language in the Bylaws. In 2017, the Constitution and Bylaws Committee asked the Board if a statement related to a quorum needed to be added to the Bylaws for Standing and Special Committees. Discussions continued around whether we need language, how a quorum is defined, if a recommendation for a Bylaw change is needed, and what, if anything, should that change look like. If less than 50% of a Standing

or Special Committee is present while a recommendation to the Board is being made, should that be indicated to the Board. Discussion followed about whether knowing if more than 50% of the Committee was present would make a difference to the Board. The consensus was no – knowing this would not make a difference to the Board in their response to recommendations as it is assumed that the Committees and the Board are working in the best interests of IAFP. Recommendation to the Board: The Committee recommends that language be included in the Chair and Vice Chair Handbook to clarify no quorum is needed for PDGs, Standing, or Special Committees. No recommendation to change the Bylaws. Motion – Caroline; Second – Kathy; All in Favor.

Student Liaison for Constitution and Bylaws Committee. As of this meeting, no one from the Constitution and Bylaws Committee had reached out to the Student PDG to obtain a Student Liaison. A discussion surrounded the preference for a student with IAFP experience, and a willingness to serve a multi-year term, due to the nature of this Committee. Michelle volunteered to reach out to the Outgoing Student PDG Chair to determine if an outgoing Student PDG Board Member would be willing to serve in this capacity. Should a student be identified, they will be included in the 2019 meeting.

New Business:

Tabled Discussion of Roberts Rules of Order. Discussions continued around the reoccurring need to inform PDG and Committee Chairs and Vice Chairs of Roberts Rules of Order, and how these rules apply to their meetings at IAFP. Much of this information can be obtained from Bill Huntley's presentation, and Bill, Michelle, and Melanie will draft a one-pager for review by the whole Committee. Recommendation to the Board: The Committee recommends that language be included in the Chair and Vice Chair Handbook to overview the key points of Roberts Rules of Order and their applicability to PDG, Standing, and Special Committee Meetings, and that an annual presentation on Roberts Rules of Order be included in the PDG Chair and Vice Chair's Saturday Meeting. Motion was made by Caroline Smith-DeWaal, seconded by Jenny Scott and approved.

Current List of Awards in Bylaws. Discussion surrounded the current list of Award Committees, and the names of Awards included in the Bylaws as to whether they are current. How are awards handled through other associations; included or not? If the Bylaws are not up to date, should the language be simplified to remove the names of specific Awards Committees? If the IAFP staff can review the Awards Committee language in the Bylaws for consistency with current awards and practices, and provide this information to the Constitution and Bylaws Committee, the Committee will provide draft language of potential changes to the Executive Board for their February Meeting. Recommendation to the Board: The list of Award Committees in the Bylaws should be reviewed for consistency with current practices. Should changes be required, the IAFP Staff can report back to the Constitutions and Bylaws Committee. Motion was made by Steve Murphy, second by Jenny Scot and approved.

Potential New Members. Potential new members were discussed. The Committee believes Andrew Clarke would be a good addition to the Committee.

Recommendations to Executive Board:

1. The Committee recommends that language be included in the Chair and Vice Chair Handbook to clarify no quorum is needed for PDGs, Standing, or Special Committees.
2. The Committee recommends that language be included in the Chair and Vice Chair Handbook to overview the key points of Roberts Rules of Order and their applicability to PDG, Standing, and Special Committee meetings, and that an annual presentation on Roberts Rules of Order be included in the Committee/PDG Chair and Vice Chairs Saturday Meeting.
3. The list of Award Committees in the Bylaws be reviewed for consistency with current practices. Should changes be required the IAFP Staff should report back to the Constitution and Bylaws Committee.

Next Meeting Date: July 21–24, Louisville, KY.

Meeting Adjourned: 12:01 p.m. with a motion by Jenny Scott; seconded by Kathy Glass and approved.

Chairperson: Melanie Neumann-Cherney.

Foundation Committee

Members Present: Vickie Lewandowski (Chair), Gary Acuff (Vice Chair), James Dickson, Alvin Lee, Emilio Esteban, Jenny Scott, Wendy White, Manan Sharma, and Randy Phebus.

Advisors Present: Gale Prince, Kathy Glass, and Paul Hall.

Board/Staff Members Present: David Tharp, Roger Cook, Linda Harris, Mickey Parish, and Lisa Hovey.

Meeting Called to Order: 7:34 a.m., Wednesday, July 11, 2018 by Gary Acuff.

Recording Secretary of Minutes: Wendy White.

Old Business: Motion to approve the 2018 agenda by Paul Hall; second by Wendy White; unanimously approved. Motion to approve the 2017 minutes by Paul Hall; second by Wendy White; unanimously approved.

Financial Reports: Balance Sheets and Statements of Activities for nine months ending May 31, 2018, the previous twelve months ending August 31, 2017, the previous twelve months ending August 31, 2016, the Foundation Investment Activity, and the 2019 budget were reviewed by the Committee members.

2017 Financial Report was reviewed by David Tharp. \$61,000 was raised during the 2017 IAFP Annual Meeting fundraising included: \$32,000 (Foundation booth), \$20,000 (Fred Weber match), and \$9,000 (Silent Auction).

Current year student scholarship winner pictures were displayed on monitors, and Vickie recognized previous winner statements during the Opening Session.

New Business: The committee reviewed the current Foundation fundraising progress during the Annual Meeting. At the time of this meeting, over \$35,000 had been raised at the Foundation booth (up around \$3,000 from previous year) earning the extremely generous matching donation of \$20,000 from Fred Weber. The Silent Auction proceeds were over \$7,000 (collections not yet complete).

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

Committee agreed to source a 5-coin wooden frame for the 2019 Annual Meeting.

There was also discussion regarding an initiative to follow-up on past winners, via video testimonials, to engage them and encourage renewed Membership.

Committee agreed to Neil Bogart's (remote) recommendation of establishing an Amazon Smile account.

Committee agreed to Vickie's suggestion to have an on-site Foundation Committee meeting to discuss strategy around the 2020 goal.

Recommendations to the Executive Board:

1. Consider devising a policy of not announcing (during the Award ceremony) those that re-donated their honorarium/award to eliminate the expectation.
2. Recommend establishing an Amazon Smile account for IAFP Foundation.
3. Recommend the Foundation Committee have an on-site meeting, possibly adjacent to the Board Meeting in Louisville, February 13, 2018.

Next Meeting Date: Meeting in Louisville, February 13, 2018. Meeting TBA at July 21–24, 2019 IAFP Annual Meeting in Louisville, KY.

Meeting Adjourned: 8:25 a.m. Motion to adjourn by James Dickson; second by Paul Hall; unanimously approved.

Chairperson: Vickie Lewandowski.

Membership Committee

Members Present: Zeb Blanton (Chair), Lawrence Goodridge (Past Chair), Jeffrey Lejeune, Susan Linn, and William Huntley.

Board/Staff Present: Ruth Petran (Board Liaison) and Lisa Hovey (Staff Liaison).

Number of Attendees: 7.

Meeting Called to Order: 3:00 p.m., Saturday, July 7, 2018.

Minutes Recording Secretary: Zeb Blanton.

Old Business: Discussion around the lack of participation on the Membership Committee was identified last year as being scheduled too early on Saturday. Many of the members are scheduled to arrive later in the day or are active in other activities or PDGs. It was noted that the Board acknowledged and agreed this from our Recommendations last year, however, the date and time was never changed. The Chair will take ownership of this to find a better date and time to hold our meeting. The other recommendations from last year were reviewed and discussed. The recognition awards have been referred to the appropriate PDGs.

New Business: The committees reviewed the handouts on membership and are pleased that we have a steady growth in most areas, except Canada and Mexico. With a 30% or more decrease, emphasis for an action plan needs to be created and implemented.

Membership for Canada has suffered over the past few years. Speculation identified the possibility it's due to most of the emphasis for conferences and events occurring in the U.S. The last meeting held in Canada was Calgary in 2006 and Toronto 1992 and 1975. It's difficult to promote membership for a country where the overall majority of the events are held in the US.

The international membership is taking a small dip and should be monitored to ensure we do not find ourselves losing more over the next few years. The European Symposium appear to be a positive way to grow membership in Europe; however, without a deeper dive into the actual numbers increased and lost in each country it's held, it's hard to determine the actual success or challenges to growth there.

The Committee discussed the potential targeting of professional organizations like DVMS and their annual events to represent IAFP and promote membership.

The Committee discussed the increases in total membership and while we are happy there is a steady growth, no real indicators can be identified as to why.

Recommendations to the Executive Board:

1. Put a greater emphasis towards an Annual Meeting in Canada.
2. We would like to have a designated representative on the Committee for LATAM (especially Mexico) and the Student PDG.
3. For future reporting, we would like to see the membership numbers listed separately for Canada and Mexico. Also, all remaining of Central and South America are now listed as LAT-AM, AsiaPac and Europe, Africa and Middle East combined.
4. For future reporting, we would like to have the numbers for Student membership included in the reporting.

Next Meeting Date: July 21–24, 2019, Louisville, KY. Date and time to be determined once the arrangements Committee can review other options for our future dates for meeting.

Meeting Adjourned: 4:11 p.m.

Chairperson: Zeb Blanton.

Nominating Committee

Members Present: Margaret Hardin (Chair).

Board/Staff Members Present: Tim Jackson and David Tharp.

Meeting Called to Order: 4:00 p.m., Sunday, July 8, 2018.

Recording Secretary of Minutes: Margaret Hardin.

Old Business: None.

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

Recommendations to the Executive Board: None.

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

Meeting Adjourned: 4:57 p.m.

Chairperson: Margaret Hardin.

Past Presidents' Committee

Members Present: Gary Acuff, Stan Bailey, Bob Brackett, Jeff Farber, Kathy Glass, Linda Harris, Alejandro Mazzotta, Gale Prince, Don Schaffner, and Jenny Scott.

Board/Staff Present: Mickey Parish and David Tharp.

Number of Attendees: 12.

Meeting Called to Order: 3:35 p.m., Saturday, July 7, 2018.

The 2017 Minutes were approved with a motion by Stan Bailey and a second by Gary Acuff.

Old Business:

Collaboration with NEHA: David Tharp reached out to the NEHA Executive Director to discuss possible collaborations. Advertising in NEHA publications is in the range which was considered too high to justify. The potential for formal application for CEUs was discussed. It is a lot of work to get this in place. Any attendee can individually have the program evaluated for CEUs. The IAFP staff does not get requests for CEUs so it is unclear if there is an actual demand that would justify the administrative burden.

All agreed that the lines of communication should remain open between IAFP and NEHA and David agreed. Jeff Farber volunteered to reach out the Canadian Association of Public Health to insure they are aware of IAFP and the benefits of membership including awards. David Tharp indicated that he had reached out to AFDO regarding the Sanitarian Award and travel awards that had yielded a large number of applications this year – a strategy encouraged moving forward.

New Business:

Mickey Parish update:

- The Association is strong by all metrics.
- Membership is at 4,300 members with about 20% international.
- We have 54 Affiliates with the Chilean Corporation for Food Protection as the newest Affiliate. Sustaining membership is strong.
- Financials: General fund is at \$2.85M.
- Both journals are doing well.
- Everyone was encouraged to open and click on at least on article for the *IAFP Report*. Jeff Farber was thanked for his efforts in preparing the *IAFP Report* each month.
- International meetings have been very successful. The European meeting in Stockholm was our 14th and set a record attendance at 370. Next year's meeting is in Nantes, France from April 24–26. The 6th Latin American Symposium is in Buenos Aires, Argentina, September 25–27 and Mickey Parish and Alejandro Mazzotta will attend. We continue to participate in the Dubai International Food Safety Conference (October 29–30) and the China International Food Safety and Quality Conference November 7–8 in Shanghai.
- A discussion on the Black Pearl Award and uneven numbers of annual applications took place. It was acknowledged that it was a lot of work to pull together an application and that that might be a barrier to submission. It was noted that this is the 25th year of awarding the Black Pearl (2018 is 25 years). David Tharp noted that there is a brochure for the award that includes quotes from past awardees and additional information is online. Each year an executive summary of the awardee is published in *FPT*.
- We are on target to hit \$2M by 2020 for the Foundation.
- Fred Weber Challenge this Year: \$20,000.

Action: Mickey Parish approved as incoming Vice Chair.

Recommendations to the Executive Board:

1. An article for *Food Protection Trends* should be developed that provides the history of the Black Pearl Award, the sponsor, some of the highlights of the companies who have received the award over the past 25 years, and information and tips on preparing a strong application. IAFP staff could facilitate the preparation of the article by providing the identified author additional materials on the Black Pearl Award as needed.
2. Approve Mickey Parish as incoming Vice Chair beginning in 2019.

Meeting Adjourned: 4:30 p.m.

Next Meeting Date: July 21–24, 2019, Louisville, KY.

Chairperson: Alejandro Mazzotta

Webinar Committee

Members Present: Don Schaffner, Doug Marshall, Manpreet Singh, Manan Sharma, Bob Gravani, Jim Dickson, and Gary Acuff.

Wendy White and PC Vasavada could not attend due to conflicts.

Visitors: Phillip Perry, Elizabeth Address, and Phyllis Butler Posy.

Board/Staff Present: Erin Johnson, Tim Jackson, and Tamara Ford.

Number of Attendees: 13.

Meeting Called to Order: 9:00 a.m., Sunday, July 8, 2018.

A motion was moved by Doug Marshall to approve the 2017 minutes and seconded by Bob Gravani.

Discussion on the issue of timing of webinars was brought up in the meeting with a challenge of offering webinars and support for webinars at a time that is convenient for international audiences and presenters. This is an important consideration moving forward as being an international organization, it is critical to consider other time zones around the world.

Several members of the Committee brought up the need for the Webinar Committee to follow up with people who have expressed an interest to organize webinars and have a follow up after the Annual Meeting frequently. This was also discussed with regards to the rejected symposium proposals and to follow up with organizers by Committee Members within their area of expertise.

There was a proposal to consider doing a podcast, i.e., "Food Safety Talk" as a webinar in which IAFP would be promoted and this could be an impetus for the followers, many of whom are Members of IAFP to consider organizing webinars.

Suggestions were made about having a monthly/quarterly update on outbreaks that can become a regular feature for IAFP. Other topics included in this discussion were about a series of food safety culture topics and asking AFRI-NIFA grantees to consider organizing webinars as part of their outreach efforts.

The WC discussed and would engage with the PDGs and ask for the speakers who are presenting during the PDG meetings to develop webinars for the larger IAFP membership.

There were discussions revolving around offering webinars in languages other than English and also the potential to develop a series of basic food microbiology webinars that could be used as training tools for new professionals.

The WC will work on creating expectations for webinar organizers and speakers, especially with regards to addressing all Q&A beyond the allotted webinar time.

Recommendations for the Executive Board:

1. The Webinar Committee recommends the Board reconsider restructuring the webinar fees based on a true cost analysis. Ideally, webinars would be a membership benefit and charges would only apply to non-members. The Committee believes this cost structure could also assist in expanding membership, as the cost to join IAFP would likely not be substantially more than paying for the webinar. Additionally, the Webinar Committee recommends that the Board provide more concrete feedback on the fee structure based on the discussions that took place regarding webinar fees.
2. The Webinar Committee recommends that this Special Committee be transitioned into a Standing Committee.

Next Meeting Date: July 21–24, 2019, Louisville, KY.

Meeting Adjourned: 10:45 a.m.

Chairperson: Manpreet Singh.

PROFESSIONAL DEVELOPMENT GROUPS

Advanced Molecular Analytics PDG

Attendees: Karen Jarvis (Chair), Xiangyu Deng (Vice Chair) Jacquelyn Adams, Emelia Adator, Marc Allard, Raghavendra Amachawadi, Angela Anandappa, Ilan Arvelo-Yagua, Uma Babu, Jianfa Bai, Kannan Balan, Pratik Banerjee, Rachel Binet, Laurel Burall, Cheryl Burn, Clara Calvo Alamo, Catharine Carlin, Haifeng Chen, Mike Clark, Rocelle Clavero, Stephanie Colorado, Angel Conde, Yue Dai, Gregory Danzeisen, Corinna Dareluis, Francisco Diez, Noemie D'Onofrio, Christophe Dufour, Thomas Edlind, Peter Evans, Patrick Fach, Tony Fishback, Karen Fong, Emily Forauer, Fereidoun Forghani, Mario Gadanho, Balasubramanian Ganesan, Ted Gatesy, Beilei Ge, Zachery Geurin, Jonathan Glynn, Gustavo Gonzalez Gonzalez, Julie Haendiges, Feifei Han, Janette Handley, Christina Harzman, Yingshu He, Yiping He, Joe Heinzelmann, Sunee Himathongkham, Leslie Hintz, Maria Hoffman, Jani Holopainen, Edan Hosking, Laura Howard, Chiun-Kang Hsu, Runze Huang, Tim Jackson, Bala Jagadeesan, Hyein Jang, Stephanie Jimenez Ramos, Pu Jing, Jessica Jones, Renaud Jonquieres, Duane Kaufman, Ahyoon Kim, Jasna Kovac, Sanjay Kumar, Keith Lampel, Jeong-Eun Lee, Susan Leonard, Cong Li, Shaoting Li, Zengxin Li, Jie Yin Lim, Pushpinder Kaur Litt, Xingchen Liu, Xuanjing Liu, Xiaonan Lu, Shannara Lynn, Iain MacLaren-Lee, Michele Manuzon, Sherri McGarry, Karen McWilliams, Jesse Miller, Molly Mills, Paul Morin, Thabang Msimango, Sampa Mukherjee, Xiangwu Nou, Taylor Oberg, Morriner Omolo (Student Liaison), Renato Orsi, Jitu Patel, Alma Perez-Mendez, Sophie Pierre, Karen Pietrzen, Aaron Pleitner, Florence Postollec, Yan Qi, Sarita Raengradub, Ravindra Ramadhar, Alejandra Ramirez, Loandi Richter, Catherine Rolfe, Shima Shayanfar, Gregory Siragusa, Daniele Sohier, Sultana Solaiman, Christina Stam, Eric Stevens, Errol Strain, Irshad Sulaiman, Ben Tall, Sandra Tallent, Brad Taylor, Sarah Tillis, Ruth Timme, David Tomas Fornes, Mark Truesdale, German Villamizar-Rodriguez, Chun Wang, Benjamin Waring, Tamara Wood, Chenghuan Xu, Shaokang Zhang, Yifan Zhang, Shaohua Zhao, and Joe Zindulis.

Number of Attendees: 129.

Meeting Called to Order: 9:00 a.m., Sunday July 8, 2018.

Minutes Recording Secretary: Dr. Xiangyu Deng and Dr. Eric Stevens.

Old Business:

Call to order and welcome – Karen Jarvis (Chair) and Xiangyu Deng (Vice Chair).

Member sign in – To be included from sign-in list passed around (no badge scanner). The badge scanner did attend and scan badges during the meeting – manual sign in sheets available upon request.

Review of Symposia sponsored or co-sponsored by AMA PDG – 6 symposia this year at IAFFP.

The meeting minutes from 2017 were approved.

New Business:

Introduction of the Student PDG Liaison – Morriner Omolo – Morriner encourages participation with the student PDG to establish mentorship between members of AMA and the Student PDG – Please reach out to Morriner if you are interested in mentoring a student.

10-minute talks – state of technology

1. Tom Edlind, Ph.D. – Strain Typing in the Food Facility: Opportunities and Obstacles.
2. Eric Stevens, Ph.D. – The Impact of WGS and Metagenomics Sequencing as a One Health Approach for Produce Safety.
3. Jesse Miller, Ph.D. – Swimming Through the Sequencing Swamp – How Do We Generate Data that Doesn't Stink?
4. Iain MacLaren-Lee, Ph.D. – Portable and Rapid Sequencing of Pathogen Genomes.

Update on the state of IAFFP (membership, submitted/accepted symposia) from Tim Jackson.

Suggestions for 2019 AMA PDG sponsored symposia, roundtable, workshops and webinars:

1. Workshops
 - i. Repeating both WGS and WGS 101 in 2019 (need to define what each current workshop offers and how new workshops fill a needed space).
 - ii. Functional genomics workshop?
 - iii. Webinars as a more accessible and affordable alternative to workshops.
2. Non-classified topics for workshops, symposia, webinars
 - i. WGS and metagenomic sequencing and how relevant (when industry is chasing foodborne pathogens) when transference of AMR is also important.
 - a. What FDA thinks is relevant.
 - b. What research is going on.
 - c. What the PDG would like to see (what the academics should be asking).
 - ii. Multiple approaches to analyte detection methods (maldi MS and WGS, sample prep methods for WGS and metagenomic sequencing).
 - iii. Food security and poisoning.
 - iv. Sanitation and practical applications (spread across three symposia).
 - v. Detection/Identification of Food fraud (authentication, adulteration).
 - a. What methods do we use and how to trace and track the growing threat of illegal food adulteration practices employed to make money?
 - b. Seafood PDG could help with sponsoring.
 - vi. Culture Independent Diagnostic Tests (CIDT, this also came up in the Applied Laboratory Methods PDG).
 - a. Linking with epidemiologists on how this will impact the future.
 - vii. Use of genomics for risk assessment.
 - a. Focus on government interest.
 - b. Functional genomics for risk assessment (virulence, antimicrobial resistance, sanitizer resistance).
 - viii. Making commercial cases on the economics of outbreaks and the value added when adopting new technologies.
 - ix. Metagenomics in agriculture or other food commodities.
 - x. MetagenomeTrakr database for food safety (food microbiome characterization and pathogen detection).
 - xi. Student PDG – How novel technologies and methods can be adapted for use in developing or middle-income countries. How can students trained in these technologies return home to use them?

Recommendations to the Executive Board:

1. The Advanced Molecular Analytics PDG approved Dr. Xiangyu Deng as the new Vice Chair of the AMA PDG.
2. The Advanced Molecular Analytics PDG looks forward to the August Webinar to explain the process for symposium selection of and how to improve our proposals to strengthen the chances of acceptance and requests that the Board include information about how technical talks are rated as well.
3. The Advanced Molecular Analytics PDG would like the Board to provide more detailed information about the proposal review process for symposia, roundtables, and workshops. Additionally, would the Board be willing to provide the reasons for rejecting applications and the scores or rank of accepted and rejected proposals?
4. The Advanced Molecular Analytics PDG would like the Executive Board to consider funding (for all PDGs) for a mobile polling app such as Poll Everywhere for use during our PDG meetings to collect ideas for symposia, roundtables, workshops and webinars. This app would greatly improve and streamline the PDG process of discussing, and logging ideas for symposia, etc.

Next Meeting Date: July 21–24, 2019, Louisville, KY.

Meeting Adjourned: 11:00 a.m.

Chairperson: Karen Jarvis.

Applied Laboratory Methods PDG

Attendees: Omar Oyarzabal (Chair), Keith Lampel (Vice Chair), Abdur Amin, Karen Beers, Preetha Biswas, John Bodner, Alex Brandt, Elizabeth Brown, Megan Brown, Sharon Brunelle, Clara Calvo Alamo, William Chaney, Larry Cohen, Gregory Danzeisen, Ninalynn Daquigan, Thais De Melo Ramos, Xiangyu Deng, Nitin Dhowlaghar, James Dickson, Hongjian Ding, Erin Dreyling, Christophe Dufour, Martin Duplessis, Sophia Elie, Analice Espeleta De Castro, Emilio Esteban, Patrick Fach, Jeremy Faircloth, Peyman Fatemi, Brittany Fink, Fereidoun Forghani, Ian Fownes, Lerrin French, Loretta Friedrich, Balasubramanian Ganesan, Ted Gately, Amanda Gilchrist, Jonathan Glynn, Gustavo Gonzalez Gonzalez, Nancy Gushing, Julie Haendiges, Jennifer Hait, Mohammed Hakeem, Feifei Han, Lu Han, Upasana Hariram, Alice Hayford, Rabeb Hennekinne, Monica Hilger, Kirsten Hirneisen, Jani Holopainen, Edan Hosking, Lijun Hu, Phyllis Hu, Tim Jackson, Andrew Jacobson, Bala Jagadeesan, Hyein Jang, John Jarosh, Qing Jin, Billie Johnson, Jiin Jung, Shivaramu Keelara Veerappa, Ramin Khaksar, Ahyoon Kim, Jeffrey Kornacki, Charlee Kuba, Anne Lara, Jeong-Eun Lee, Jieon Lee, Judy Lee, Y. Jennifer Lee, J. David Legan, Susan Leonard, Cari Lingle, Xiaonan Lu, Nicole Maks, Humberto Maldonado, Doug Marshall, Kyle Martin, Bismarck Martinez, Frederic Martinez, Greg Matian, Tammy McFate, Kevin McGoldrick, Karen McWilliams, Joseph Meyer, Alex Montgomery, Benjamin Morrow, Mark Muldoon, Nandini Natrajan, Nicolas Nguyen Van Long, James O'Donnell, Efi Papafragkou, Alma Perez-Mendez, Julia Perez-Montano, Sophie Pierre, Karen Pietzen, Alda Pires, Stephanie Pollard, Florence Postollec, Raj Rajagopal, Mira Rakic Martinez, Sara Ramos, William Robertson, Ofelia Rodriguez-Garcia, Patricia Rule, Joe Schroeter, Gregory Siragusa, Christopher Snabes, CFS, Thierry Sofia, Silvia Solano Flores, Bradley Stawick, Tyler Stephens, Irshad Sulaiman, David Tomas Fornes, Vanessa Tshako, Purnendu Vasavada, Diane Walker, Chun Wang, Lyssa White, Pamela Wilger, Junggha Woo, Tamara Wood, Shuang Wu, Zhihan Xian, Ruben Zapata, and Guodong Zhang.

Number of Attendees: 128.

Meeting Called to Order: 3:15 p.m., July 8, 2018.

Minutes Recording Secretary: Keith Lampel and Stephanie Pollard.

The meeting was called in order by Chair Omar Oyarzabal with the pre-sence of Vice Chair Keith Lampel.

All members were reminded that they can update their PDG affiliations by logging into the IAFP website. Tim Jackson, representing the IAFP Board, gave an update on attendance, exhibitors and the number of proposals submitted and approved in 2018. He reminded the attendees to support student activities in the Association. The Student Liaison member explained some of the activities by the Student PDG and mentioned the student mentor/mentee program.

The Antitrust Guidelines from the Association were presented on two slides.

Old Business: Pamela Wilger made the motion to accept the 2017 Applied Laboratory Methods PDG minutes, which was seconded by Patricia Rule. There was no further discussion and the minutes were approved.

Omar recapped the 10 proposals from ALM PDG, as primary or collaborating PDG, which have been accepted for 2019.

Stephanie Pollard, Clear Labs, summarize the work of the Methods Validation and Verification Interest Group. This group has already organized three webinars and there are three other webinars that will be sponsored by this group in 2018–2019.

New Business: Joe Schroeter, Vice President of Global Sales at Clear Labs, spoke about new generation sequencing for routine pathogen detection, multi-target analysis and automation platforms targeting species/serovars.

Patricia Rule, Sr. Staff Scientist at bioMérieux, spoke about newer platforms connecting results with data analysis and the upcoming laboratory solutions with data analysis and organization that will be available for the food industry.

Omar will share the document "Best Practices for IAFP Symposia/ Roundtable Proposals" with all PDG members via email.

An email will be sent before the next meeting requesting nominations for Vice Chair, and a vote will be requested via an online survey.

Keith Lampel gave an update from the PDG Chair/Vice Chair meeting and presented information from the Program Committee members that took place on Saturday. Keith also reminded the audience that if individuals need help to organize their proposals, we will need some details about the proposals from them, such as keywords, type of session, proposed title and a tentative list of speakers or panelists.

Several proposal titles were collected throughout the discussion on topics for 2019.

- Pre-harvest method validation guidelines.
- Update on quantitative methods for detection.
- Non-contamination methods for radioactive compounds, in collaboration with the Food Defense PDG.
- Case studies or practical applications of the use of new generation sequencing in the food industry.
- *Bacillus* as a double edge sword in the food industry.
- Case studies using microbiome (omics).
- Categorization of pathogenic versus non-pathogenies strains of bacterial foodborne pathogens.
- Presumptive versus confirmatory approaches.
- Intentional contamination analysis, with the Food Defense PDG.
- Methods for biofilm detection.
- Compare qPCR with plate counts.
- A session on food fraud.
- Surrogates for pathogen studies.
- Sample preparation and impact on viable cells.
- Potential use of transportation time as incubation for earlier detection.
- Validation of ATP systems, in collaboration with the Sanitation PDG.
- Rapid methods for air quality, yeast and mold detection.

Recommendations to the Executive Board: None.

Next Meeting Date: July 21–24, 2019, Louisville, KY.

Meeting Adjourned: 4:25 p.m.

Chairperson: Omar Oyarzabal.

Beverage and Acid/Acidified Foods PDG

Attendees: Wilfredo Ocasio (Chair), Michelle Acheson-MacLeod, Jayashan Adhikari, Keith Amoroso, Elizabeth Andress, Amanda Beitler, April Bishop, Andrew Blackwell, Fred Breidt, Elizabeth Brown, Erdogan Ceylan, Larry Cohen, James Cook, Carl Custer, Joan Donelan-Weber, Erin Ducko, Brian Eblen, Sophia Elie, Hidetake Esaki, Willis Fedio, Bob Forner, Elise Forward, Balasubramanian Ganesan, Gaurav Ghai, Judith Hajdenwurcel, Upasana Hariram, Brandon Hernandez, Dave Horowitz, Keith Ito, Jennifer Jolly, Hidehito Kai, Michelle Keener, Ahyoon Kim, John Larkin, Alvin Lee, Jeong-Eun Lee, Y. Jennifer Lee, Kayla Liebman, Yuqian Lou, Bismarck Martinez, Joseph Meyer, James O'Donnell, Mickey Parish, David Park, Ruth Petran, Laurie Petrey, Florence Postollec, Ravindra Ramadhar, Emilia Rico, Jena Roberts, Tanya Roberts, Kurt Rueber, Kristin Schill, Subash Shrestha, Amarat Simonne, Guy Skinner, Abigail Snyder, Thierry Sofia, Rico Suhaim, Josh Warren, Anett Winkler, Paul Winniczuk, and May Yeow.

Number of Attendees: 63.

Meeting Called to Order: 1:00 p.m., Sunday, July 8, 2018.

Minutes Recording Secretary: Jena Roberts.

Welcome and Roll Call – Wilfredo Ocasio.

Introductions – Wilfredo Ocasio.

Antitrust Guidelines – Wilfredo Ocasio.

Board Liaison Comments (Ruth Petran):

- Record attendance, estimate 3,800 this year: Number of exhibitors are up, membership is strong with 20% outside the U.S. attending.
- Encourage student mentoring.
- Stay connected with Tweets and LinkedIn. The monthly email of *IAFP Report* has an open rate of 27%, has very topical information and is a great food safety resource.
- *JFP* publishes more review articles, resubmit past symposia.

Old Business: Review and approval of 2017 Meeting Minutes. Motion to approve the minutes; seconded and approved.

New Business: 2017.

- Characteristics and ID of Spoilage-causing Fungi – (Emilia Rico-Munoz) suggests that this is held in 2020 as Rob Samson may have a conflict with another conference.
- Developments in Mycotoxin Research – (Emilia Rico-Munoz) perhaps do this again in 2019.

2018 Sponsored Programs:

- Webinar: Recommendations for designing and conducting cold-fill-hold challenge studies for acidified foods (Fred Briedt). Over 200 people registered for the webinar and 150 people were present, another webinar planned for next year; acceptance rate is about 50%; lots of IAFP help.
1. Idea from Jena Roberts: we could convert symposia that are not accepted into webinars.
 - The Challenge of Challenge Studies – (Jena Roberts and May Yeow)

Call for Topics:

- Real World validation practices and protocols: How do I really get this done?
 - End-to-end considerations to safely produce clean label low acid/acidified products.
1. What are the effects when preservatives are removed, how this affects shelf life, working through an organization, what does clean label mean to consumers and how does this affect your plant and your inner workings.
 - Developments in Mycotoxin Research – next year.
 - Cannabis products – what do we do with this, it's not regulated under foods but this product may get there.
 - Jim Cook, SGS – What's in my product? Testing for chemical contamination, food fraud perspective as well as food contamination, coconut water adulteration, vanilla, or is it Madagascar vanilla, adulteration of juices from sugars or acids added to products.
 - Emilia Rico-Munoz – Biofilm removal as a critical part of spoilage and contamination, yeast and molds can also be biofilms, there are mold that like to spread in water not just through the air, can discuss enzymatic removal as well as the research, how to create biofilms to do the research and the investigation.
 2. Food Hygiene PDG also has this as a topic.
 - Joseph Meyer and others – cold brew beverage safety coffee and *C. bot* risks and all the vegetative pathogens, what are best practices and best consumer practices, a lot of work has been done with *C. bot* but the work is proprietary, health market based fortified waters that cannot be processed and how do they do a challenge study, and some hot fill products are handled in a way that they can be cross contaminated.
 3. Elizabeth Brown – craft brew industry beer and kombucha, do these markets know what they are doing and what are consumer expectations?
 4. Amanda Beitler, Mead Johnson – minimally processed refrigerated Low Acid Foods – what is acceptable, what is expectation from consumer, they don't understand product needs to be refrigerated, does product receive a non-proteolytic cook.
 - Fred Briedt – fermentation food safety – non STEC *E. coli* but acid resistant and what to do about that, a lot of recommendations on how to do fermentation but this is for quality but not for safety and sometimes regulators use these recommendations.
 - Jennifer Jolly – product failures spoilage if you have a product failure, what is next, where do people start looking, spoilage investigation on site, what is the case, what should you be looking for what should you do.
 - May Yeow – acid/acidified definitions are still not clear, regulatory perspective to help us understand.
 - Yugian Lou – like to hear from regulatory on practical definition of acidified foods.

- Spoilage TAB, lots of discussion on control inactivation, the problems in beverages, an old but good topic.

We have 4 potential proposals to submit to the Program Committee with an October 2 deadline for submission. Wilfredo Ocasio will keep in better contact with the leads for each of these symposia to keep this on track. Wilfredo will schedule some calls after this meeting.

List of selected topics for further development:

- Guidelines for thermal/non-thermal processing of heat sensitive products (Trendy beverage safety):
1. Cold-brewed coffees, 100% juices, fermented beverages, non-alcoholic beers, low-acid refrigerated (associated *C. bot* risk).
 2. Contact person: Elizabeth Brown.
 3. Proposed format: Full symposium.
 - Biofilm removal procedures as a critical part of spoilage and pathogen prevention – must consider yeast and mold as well as bacteria biofilms:
 1. Proposed format: short symposium.
 2. Contact person: Emilia Rico-Munoz.
 - Cause spoilage investigations on shelf-stable beverages – root-cause analysis: hot-fill, aseptic, ESL, etc.
 1. Proposed title: "Product Failure: What Now? What is the Next Step?"
 2. On-site work, analytical work.
 3. Real-life case studies.
 4. Proposed format: short symposium.
 5. Contact person: Jennifer Jolly. - Clean-label in acidified foods and its impact on processing for food safety, quality and regulatory compliance.
 1. Proposed title: "Who Moved my Acid?"
 2. Potential talk: Fred Briedt on buffering capacity influencing legal categorization as acidified food.
 3. Proposed format: Full symposium.
 4. Contact person: April Bishop.

Nomination and Election: May Yeow was nominated to serve as Vice Chair-Elect; to begin her term as Vice Chair in 2019.

Chairperson: Wilfredo Ocasio.

Dairy Quality and Safety PDG

Attendees: Yvonne Masters (Chair), Nancy Huls (Vice Chair), Wendy McMahon (Secretary), Seun Agbaje, Angela Anandappa, Uma Babu, Colin Barthel, Daniel Belina, Anne Bigalke, Bledar Bisha, David Blomquist, Alex Brandt, Laurel Burall, Melvin Carter, Julie Carver, Roger Cook, Dennis D'Amico, Gregory Danzeisen, Marlo Darken, Noel Dacruz, Noemie D'Onofrio, Lise Duran, Sophia Elie, Sarah Engstrom, Duygu Ercan Oruc, Maria Espana, Andrea Etter, Justin Falardeau, Willis Fedio, Matthew Fenske, Fereidoun Forghani, Chad Galer, Balasubramanian Ganesan, Ted Gatesy, Kathleen Glass, Peggy Good, Michele Gorman, Kevin Habas, Melinda Hayman, Erin Headley, Claus Heggum, Rabeb Hennekinne, Richard Higby, Jessica Hofstetter, Kristen Houck, Ingrid Huntley, Jeffrey Hutchison, Oluwatosin Ijabadeniyi, Jealae Jackson, Janelle Jones, Renaud Jonquieres, Priya Kadam, Charles Kalish, Ahyoon Kim, Robert Koeritzer, Jeffrey Kornacki, Jasna Kovac, Charlee Kuba, Kunihiro Kubota, Jeong-Eun Lee, J. David Legan, Vickie Lewandowski, Jie Yin Lim, Cari Lingle, Deon Mahoney, Sahar Malekmohammadi, Frederic Martinez, Amanda Matczynski, Alejandro Mazzotta, Minto Michael, David Morrison, Ryan Newkirk, Obianuju Nsofor, Craig Oberg, Taylor Oberg, James O'Donnell, Stephanie Olmsted, Yuda Ou, Alma Perez-Mendez, Annie Piepenhagen, Sophie Pierre, Hannah Pilch, Phyllis Posy, Amy Rhodes, Lindsey Ross, Joanne Ruebl, Gerard Ruth, Allen Saylor, Ronald Schmidt, Arlette Shazer, Nilay Sheth, Steven Sims, Katarina Simunovic, Edward Sliwinski, Vanessa Snyder, Thierry Sofia, Christina Stam, Larry Steenson, Clint Stevenson, Frederick Stokes, Robert Strong, Fanny Tenenhaus-Aziza, Luke Thevenet, Purnendu Vasavada, Kirty Wadhawan, Stephen Walker, Edith Wilkin, Charon Willis, and Sharon Wilson.

Number of Attendees: 108.

Meeting Called to Order: 1:05 p.m., Sunday, July 8, 2018.

Minutes Recording Secretary: Wendy McMahon.

Yvonne Masters (Chair) welcomed members and introduced Nancy Huls (Vice Chair) and Wendy McMahon (Secretary). Yvonne presented a request to change agenda having Roger Cook (Board Liaison) go first before the Antitrust Guidelines. Roger Cook gave the Board update, Yvonne reviewed the Antitrust Guidelines and the 2017 Dairy PDG meeting minutes were approved.

Old Business:

- Dairy Sanitation Pocket Guide was completed and Steve Murphy will be giving an update with his presentation.

New Business:

- FDA Intentional Adulteration was presented by Ryan Newkirk and Colin Barthel. For the IA rule they talked about the overview of the regulation guidance document and training.
- Overview of Updates to the Dairy Sanitation Pocket Guide and Dairy Practices Council Upcoming Meeting was presented by Steve Murphy.
 1. The Dairy Sanitation Pocket Guide is available on the IAFP website under "other publications" to download or order from IAFP.
 2. The Dairy Practices Council is having a meeting Nov 7–9, 2018 in McKinney, Texas.
- Dairy focus 2018 meeting programming was shared to generate interest in participation.
- Reviewed conference call dates and times.
- 2019 Dairy PDG program ideas were discussed.
- Students at the Dairy PDG were introduced.

Recommendations to the Executive Board: None.

Next Meeting Date: July 21–24, 2019, Louisville, KY.

Meeting Adjourned: 2:30 p.m.

Chairperson: Yvonne Masters.

Developing Food Safety Professionals PDG

Attendees: Dina Scott (Chair), Matthew Moore (Vice Chair), Gina Kramer, Seun Agbaje, Adam Alberson, Keith Amoroso, Cameron Bardsley, Giovana Bodnar, Ernest Bonah, Adam Borger, Chris Boyles, Stephanie Brown, Kellie Burris, Vanessa Bussiere, Loan Cao, Ben Chapman, Chia-Yang Chen, Jessica Chen, Casey Chester, Michelle Chester, Candice Christian, Carrie Clark, Shannon Coleman, Marlo Darken, Kaiping Deng, Claudia Diaz, Brian Eblen, Sophia Elie, Bertrand Emond, Erika Estrada, Andrea Etter, Sara Farmer, Peyman Fatemi, Emily Forauer, Gina Frontino, Monica Galleguillos, Balasubramanian Ganesan, Constantin Genigeorgis, Gaurav Ghai, Leah Gilman, Julian Graham, Susan Hammons, Marlee Hayes, Jim Heemstra, Paula Herald, Dylan Hinrichs, Tsung Han Hsieh, Richard Huang, Oluwatosin Ijabadeniyi, Jealae Jackson, Megan Jensen, Charles Kalish, Michael Kalish, Jasmine Kataria, Ahyoon Kim, Kalmia Kniel, Robert Kramer, Jeong-Eun Lee, Sean Leighton, Cortney Leone, Xia Xi Dawn Li, Marie Limoges, Kory Longhurst, Stephanie Maggio, Sahar Malekmohammadi, Chip Manuel, Maia Metreveli, Minto Michael, Amit Morey, Deepika Morey, Scott Nguyen, Estefania Novoa Rama, Philip O'Connor, Morriner Omolo, Yuda Ou, Craig Overlock, Brian Perry, Hannah Pilch, Sophia Pinton, Florence Postollec, David Read, David Reyda, Carrie Rigdon, Catherine Rolfe, Lindsey Ross, Christopher Rupert, JoAnn Sagara, Kristen Saniga, Sara Scharber, Carla Schwan, Natalie Seymour, Shima Shayanfar, Emalie Thomas-Popo, Sarah Tillis, Qing Wang, Myriam Evelyn Watts, Wendy White, Brooke Whitney, and Peipei Zhang.

Number of Attendees: 99.

Meeting Called to Order: 3:15 p.m., Sunday, July 8, 2018.

Minutes Recording Secretary: Jessica Chen/Matthew Moore.

Old Business: Address by Jessica Chen, Outgoing Chair.

New Business: IAFP Board Update from Board Liaison, Kali Kniel.

Discussion of accepted sessions that were sponsored/co-sponsored by the PDG:

- Insights into Food Safety Careers Roundtable (Primary)
- The Grey Area of Science: "Predatory" Publishers and Questionable Conferences (Primary)
- Help! I'm New Management. How Do I Convince My Colleagues Food Safety is Important (Primary)
- Student PDG 3-minute Thesis Competition (Co-Sponsor)

- Culturally Targeted Messages and Methods: The Next Generation of Food Safety Education Strategies (Co-Sponsor)

Discussion of specific session ideas:

- Scientific communication to the public as a scientist. Potentially bringing in science journalists to discuss strategies for communicating to the public/non-scientists (Andrea Ray, Wendy White).
 1. Similar topic discussed with meat and poultry PDG and may be some interest with student PDG. We will reach out to collaborate.
- Next Steps in Ensuring Food Safety: Data Analytics, Machine Learning and Blockchain (Proposed by Amit Morey, seconded by Matthew Moore).
 1. Viral and Parasitic PDG also considering proposing something similar, will reach out.
 - i. A number of potential company speakers could be included: Sysco is using blockchain, and Golden State Foods has it (Wendy White).
- News of potential government proposal to merge USDA and FDA (Andrea Ray).
 1. A lot of interest in room as to how this may affect career landscape. It was decided to table the idea and keep eye on situation for potential future proposal.
- Training the next generation of food safety professionals. Entirely new generation has different set of skills and communication background, how to work with and supervise them effectively (Proposed by Dina Scott; Interest from: Stephanie, Wendy White, Noelle from Tyson, Amit Morey, Katie Satchwell).
 1. Retail PDG also interested in this, will reach out for potential collaboration.
- Crisis management in the age of social media; how it affects brand protection, etc. (Proposed by Dina Scott; interest from: Amit Morey, Natalie Seymour).
 1. Potentially turn into roundtable or webinar.
- GMO labeling and considerations involved; will it potentially become mandatory (Proposed by Wendy White; Interest from Craig Overlock).

Recommendations to the Executive Board:

1. Request to officially appoint Matthew Moore as the new Vice Chair (elected prior to meeting).
2. Start a 40 under 40 club.

Next Meeting Date: July 21, 2019, Louisville, KY.

Meeting Adjourned: 5:15 p.m.

Chairperson: Dina Scott.

Food Chemical Hazards and Food Allergy PDG

Attendees: Paul Hanlon (Chair), Angela Anandappa (Vice Chair), Christopher Baker (Student Liaison), Carly Adams, Shakeel Ahmad, Atallah Baroudi, Joseph Baumert, Daniel Belina, Leslie Beyer, Scott Burnett, Kow-Ching Chang, David Crownover, Charles Czuprynski, Ken Davenport, Nitin Dhowlaghar, Joan Donelan-Weber, Melanie Downs, Mike Dziewatkoski, Kevin Edwards, Tony Flood, Michele Fontanot Borasino, Tong-Jen Fu, Balasubramanian Ganesan, Rachel Goeriz, Anyi Gutierrez, Ingrid Huntley, Lauren Jackson, Tim Jackson, Christine Jampo, Rhoma Johnson, Janelle Jones, Ahyoon Kim, Sally Klinec, Brent Kobielush, Linda Leake, Jeong-Eun Lee, Kory Longhurst, Lisa Lucore, Deon Mahoney, Gita Malik-Dahiya, Manu Manohar, Conor McGauran, Mark Moorman, Roza Nguyen, Quynh-Anh Nguygen, Joyce Njoroge, Bhavini Patel, Andrew Pearson, Hang Qi, Michael Roberson, Lindsey Ross, Lisa Ross, Gerard Ruth, Ronald Sarver, Marianne Solomotis, Brad Taylor, Steve Taylor, Fanny Tenenhaus-Aziza, Arleen Tibayan, Jennifer Todd-Searle, Tomohiko Tsurumaru, Abigail Villalba, Robert Wagner, Hechen Wei, Frances Widjaja, Chenghuan Xu, Kimberly Yeager, and Elliott Zell.

Number of Attendees: 69.

Meeting Called to Order: 3:15 p.m., Sunday, July 8, 2018

Agenda: Red Antitrust Guidelines.

Introductions: Adam Baker (Student Liaison) and Angela Anandappa (Incoming Vice Chair) were introduced.

- Approval of minutes from 2017 PDG meeting: The 2017 Minutes were accepted as written.
- Overview of relevant sessions at the 2018 IAFP Annual Meeting.
- IAFP Board Update – Tim Jackson.
- Brainstorming session for 2019 IAFP Annual Meeting sessions.
- Any other business – No issues raised.

Brainstorming session for the 2019 IAFP Annual Meeting:

The PDG followed this process when discussing ideas for the 2019 Annual Meeting;

- Four general focus areas were provided that covered the mission of this PDG.
 1. Allergens.
 2. Chemical of the Day.
 3. Chemical Hazard Control.
 4. Risk Communication.

- PDG members were given 15 minutes to identify subjects that were relevant to these four subject areas.
- The Chair and Co-Chair grouped the proposals within each focus area, then the PDG discussed potential sessions associated with each area.

Following the discussion, the following topics were identified as potential topics for sessions:

- *Risk communication*: An overview of best practices for risk communication related to chemical hazards. PDG volunteers to help develop the proposal: Paul Hanlon, Brent Kobiellush, Sally Klinect, and Tony Flood.
- *Fundamentals of allergen control*: An overview of the basic approaches to allergen control. PDG volunteers to help develop the proposal: Mark Moorman and Kim Yeager.
- *Chemical of the day*: An introduction to the background on the chemicals that IAFP members are most likely to hear about, given from the perspective of toxicologists with expertise in the area. PDG volunteers to help develop the proposal: Paul Hanlon, Frances Widjaja, and Leslie Beyer.
- *Allergen risk assessment*: Education about the process of allergen risk assessment, looking to processes such as the VITAL project. PDG volunteers to help develop the proposal: Brent Kobiellush, Steve Taylor, Joe Baumert, Sally Klinect, and Tony Flood.
- *Allergen analytical methods*: Discussion about current state of allergen detection methods, and how this applies to aspects of allergen control. PDG volunteers to help develop the proposal: Tong-Jen Fu, Marianne Solomotis, and Melanie Downs.

Recommendations to the Executive Board:

1. Confirmation of Angela Anandappa as the Vice Chair of the Food Chemical Hazards and Food Allergy PDG.
2. Recommend that this PDG have a larger room for the PDG meeting at the 2019 Annual Meeting.

Next Meeting Date: July 21–24, 2019, Louisville, KY.

Meeting Adjourned: 5:15 p.m.

Chairperson: Paul Hanlon.

Food Defense PDG

Attendees: Oscar Rodriguez-Gonzalez (Chair), Mark Kazmierczak (Vice Chair), Ruth Petran (Board Liaison), Jacquelyn Adams, Abdulaziz Alzimami, Gabriela Arteaga Arredondo, Ariel Babilonia, Jillian Bagley, Colin Barthel, Leigh Bedinger, Amanda Beitler, Sylvia Bergman, Richelle Beverly, April Bishop, Zeb Blanton, Neil Bogart, Robert Brackett, Laurel Burall, Francis Busta, Wei-Hsiang Chang, Hsiu-Ling Chen, Judy Chen, Jeffrey Clark, Angel Conde, Ashley Cunningham, Kelly Dawson, Joan Donelan-Weber, Noemie D'Onofrio, Erin Ducko, Arne Duebecke, Martin Duplessis, Mike Dziejatkoski, Bertrand Emond, Duygu Ercan Oruc, Emilio Esteban, Christopher Finch, Lois Fleck, Michele Fontanot Borasino, Elise Forward, Neal Fredrickson, Debra Freedman, Balasubramanian Ganesan, Gaurav Ghai, Virendra Gohil, Peggy Good, Michele Gorman, Jana Gorveatt, Robert Gravani, Gina Hall, Melanie Harris, Craig Henry, Brandon Hernandez, Anna Hilgart, Dylan Hinrichs, Toni Hofer, Laura Howard, Hsienheng Huang, Renata Ivanek, Christine Jampo, Lone Jespersen, Pu Jing, Kent Juliot, Hidehito Kai, Michael Kalish, Diana Kassir, Peter Kennedy, Ramin Khaksar, Ahyoon Kim, Amy Kircher, Margaret Kirchner, Kathy Knutson, Brent Kobiellush, Caitlynn Kreis, Zachary Kuhl, Geetha Kumar Phillips, Young Seok Kweon,

William Lachowsky, John Larkin, Linda Leake, Lorilyn Ledenbach, Ching-Chang Lee, Jeong-Eun Lee, Larry Lichter, Pushpinder Kaur Litt, Kory Longhurst, Yuqian Lou, Lisa Lucore, Luyao Ma, Steven Mandernach, Manu Manohar, Amanda Manolis, Joey Marchant, Doug Marshall, Yvonne Masters, Ryan Maus, Deborah McIntyre, Amie Minor, Paul Morin, Amal Muhsin, Abdul Azeez Mullattu Ebrahim, Sara Munoz, John Mwangi, Nadia Narine, Ryan Newkirk, Roza Nguyen, Mary O'Meara, Mellonie O'Neill, Don Pagh, David Park, Jennifer Pierquet, Sophia Pinton, Juan Ponce de Leon, Gale Prince, Kally Probasco, Terry Pruden, David Rasmussen, Jeffrey Read, Amy Rhodes, JoAnn Sagara, Mansour Samadpour, Allen Saylor, Marc Scantlin, Marc Scantlin, Donna Schaffner, Jason Scheffler, Sara Schoen, Shawna Schwab, Carla Schwan, Carla Schwan, Nicholas Severt, Nicola Sharman, Arlette Shazer, Nilay Sheth, Subash Shrestha, Christopher Snabes, Kelly Stevens, Robert Strong, Joni Sweet, Joni Sweet, Sandra Tallent, Aparna Tatavarthy, Aparna Tatavarthy, Sheela Thogaru, Tomohiko Tsurumaru, Nissa Varithevyan, Daniel Vega, Isabel Walls, Charon Willis, Hongshun Yang, Lily Yang, Xianqin Yang, May Yeow, Peipei Zhang, Yifan Zhang, Kang Zhou, Joe Zindulis, and Wen Zou.

Number of Attendees: 157.

Meeting Called to Order: 10:15 a.m., July 8, 2018.

Minutes Recording Secretary: Mark Kazmierczak.

- Approval of agenda. Changes: move FDA talk top beginning of new business; add announcement about AFDO's new food defense guidelines. Motion approved unanimously.
- The Chair reviewed the anti-trust guidelines.
- Members present were introduced.
- Ruth Petran – Board Liaison comments.
 1. Membership is up – 4,300.
 2. Welcome students.
 3. Connections – social media.
 4. *IAFP Report*.
 5. 90 symposia this year of ~200 submitted.
- Robyn Miranda – Student Liaison, could not attend the meeting.

Old Business:

- Review 2017 meeting minutes – approved unanimously.
- Reviewed mission statement – no changes recommended.
- FDA presentation: Ryan Newkirk and Colin Barthel: FSMA IA rule – requirements, guidance, training, and implementation.
- Jenny Pierquet (Past-Chair) gave an update on the Association of Food and Drug Officials (AFDO) new food defense guidelines.
- Reviewed previous year's symposium submissions.
- Reviewed this year's sessions:
 1. Roundtable, Ballroom G & I, July 9, 8:30 a.m.: "One Size Does Not Fit All": Food Defense Planning for FSMA Compliance. Debra Freedman, Sponsor: Food Defense PDG.
 2. Symposia – short (1.5 hours), Ballroom G & I, July 9, 10:30 a.m., Rock on! Interdisciplinary Teams Protecting Nachos at a Concert Near You. Amy Kircher, Sponsor: Food Defense PDG, Collaborating Session Sponsors: Food Fraud PDG.

New Business:

New symposium.

1. FDA Global and Domestic Efforts Idea.
 2. Chemical and Radiological Detection Methods.
 3. Workshop: Preparing Vulnerability Assessments.
 4. Testing along entire farm-to-fork continuum for pathogens—multiple PDG collaboration: Microbial Risk Assessment, Meat and Poultry, Pre-harvest, Food Defense.
 5. Food Defense during Transportation and Retail.
 6. Food Emergency Response at State Level.
- Other comments.
 1. Food Protection and Defense Institute would like to combine the Food Defense Conference with next year's IAFP. There was broad support among the PDG members.
 2. Members that submit proposals would like to get feedback on their ratings by the reviewers and the Program Committee is working on that.
 3. FDA could hold an in-person FSMA IA rule training session at IAFP. Deadline for symposium submissions is October 2, 2018.

Recommendations to the Executive Board:

1. The PDG recommends the Executive Board approve the selection of Mark Kazmierczak as PDG Vice Chair.
2. The PDG recommends the Food Defense Conference hosted by FPDI be held in conjunction with the 2019 IAFF Annual Meeting.

Next Meeting Date: July 21–24, 2019, Louisville, KY.

Meeting Adjourned: 12:03 p.m.

Chairperson: Oscar Rodriguez-Gonzalez.

Food Fraud PDG

Attendees: Neil Bogart (Chair), Dan Anderson, Raquel Andrade, Peter Ben Embarek, Shirley Bond, John Budin, Francis Busta, Cigdem Caban, Casey Chester, Michelle Chester, Joan Donelan-Weber, Arne Duebecke, Martin Duplessis, Elise Forward, Neal Fredrickson, Debra Freedman, Mario Gadanho, Balasubramanian Ganesan, Austin Gast, Brian Giannini, Michelle Goodrich, Anthony Huntley, Brynn Husk, Shaun Kennedy, Ahyoon Kim, Jeong-Eun Lee, Wan Mei Leong, Shenmiao Li, Larry Lichter, Kory Longhurst, Xiaonan Lu, Deon Mahoney, Amanda Manolis, Michele Manuzon, Jesse Miller, James O'Donnell, Franck Pandiani, David Park, Ruth Petran, Stacey Popham, Gale Prince, Sarita Raengpradub, Jeffrey Read, Forest Reichel, Amy Rhodes, Aurora Saulo, Lee-Yan Sheen, Robert Strong, Anna Theil-Gangl, Stephen Tracey, Greg Vallee, Constanza Vergara, Edward Verosko, Kaidi Wang, Kevin Wegman, and Patrick Wilson.

Number of Attendees: 56.

Meeting Called to Order: 3:15 p.m., Sunday, July 8, 2018.

Minutes Recording Secretary: Neil Bogart.

Old Business:

- Opening and Updates:
 1. Ruth Petran – Board Representative gave the Board update.
 2. The Antitrust Guidelines were read.
 3. The agenda was approved by a majority vote.
 4. Approved the Minutes minutes as printed in the November 2017 by a majority vote.

New Business:

- Open forum:
 1. Challenges identified over past year with implementing food Fraud best practices (*Macro*).
 - i. Risk Mitigations.
 - ii. Emerging food categories/Triggers/Indicators/Risk.
 - iii. Requirements/Interpretation.
 - iv. Ecommerce/Surveillance.Split into groups and developed/shared best practices based off identified challenges (*Micro*).
 2. Risk Mitigations – Stacey Popham.
 - i. Testing Methods for unknown.
 - ii. Tools for sharing information throughout supply chain (blockchain).
 - iii. Supplier sourcing – Best Practices?
 - iv. Deterrent Strategies.
 3. Emerging food categories/Triggers/Indicators/Risk – Anna Theil-Gangl.
 - i. Managing food fraud risk information?
 - ii. Supply Chain – reaction to emerging market – Tools?
 4. Requirements/Interpretation – Shaun.
 - i. Business risk vs. IA (link with supply chain).
 5. Ecommerce/Surveillance – Brian Giannini.
 - i. Ecommerce websites – grey market.
 - ii. Destroying products and labels.
 - iii. Controlling labels.
 - iv. Product characteristics.
 - v. Retail audits – flea markets.
 - vi. What is the entire market for the product?
 - vii. Risk assessment for counterfeit or fraud.
 - viii. Packaging technology.
 - ix. Relabeling.

- Identified 2019 Symposia/Roundtable/Workshop topics and organizers.
- Development Teams.
 1. Teams will be assigned on our conference call at end of July.
- Closing: Neil Bogart.

Recommendations to the Executive Board:

1. We ask the Board to review and approve the Food Fraud PDG – Student Scholarship program we have developed.

Next Meeting Date: July 21–24, 2019, Louisville, KY. A conference call will be scheduled for the end of July.

Meeting Adjourned: 5:15 p.m.

Chairperson: Neil Bogart.

Food Hygiene and Sanitation PDG

Attendees: Vanessa Cranford (Chair), Nadia Narine (Vice Chair), Evan Rosen (Secretary), Michelle Acheson-MacLeod, Jacquelyn Adams, Adam Alberson, Keith Amoroso, Angela Anandappa, Dan Anderson, Jeff Anderson, Steve Arave, Richard Arsenault, Daniel Bair, Leigh Bedinger, Thomas Bell, Arpan Bhagat, April Bishop, Stine Bislev, Tom Black, Rachael Blevins, David Blomquist, Tamla Blunt, Craig Bolt, Richard Brouillette, Marlita Burford, Scott Burnett, Cigdem Caban, Erdogan Ceylan, Hsiu-Ling Chen, Judy Chen, Rocelle Clavero, Larry Cohen, Frederick Cook, Roger Cook, Sarah Correll, Maria Crespo, David Crownover, Ashley Cunningham, Ken Davenport, Tracey David, Mark Davis, Mary Davis, Hongjian Ding, Christophe Dufour, Denise DuFresne, Lise Duran, Kevin Edwards, Bertrand Emond, Tom England, David Evanson, Betty Yaohua Feng, Matthew Fenske, Elise Forward, Sean Foster, Robert Fuller, Balasubramanian Ganesan, Michael Garrison, Charles Giambone, Joseph Glenn, Angelica Godinez Oviedo, Peggy Good, Duane Grassmann, Elizabeth Grasso-Kelley, Dale Grinstead, Sanjay Gummalla, Joshua Gurtler, Anyi Gutierrez, Hillary Hagan, Laurie Hale, Jim Heemstra, Evan Henke, Joel Hollender, Clint Holsomback, Lisa Hovey, Ingrid Huntley, William Huntley, Brynn Husk, Jeffrey Hutchison, Lee-Ann Jaykus, Lotte Jensen, Janelle Jones, Renaud Jonquieres, Chris Jordan, Alex Josowitz, Bernice Karlton-Senaye, Jasmine Kataria, Amit Kheradia, Kathy Knutson, Robert Koeritzer, Vanee Komolprasert, Jeffrey Kornacki, Shira Kramer, Mark Kreul, Sanjay Kumar, Yale Lary, Jeong-Eun Lee, Kory Longhurst, Lisa Lucore, Daiza Mendez-Perez, Dumitru Macarisin, Chip Manuel, James Marks, Doug Marshall, Yvonne Masters, Tammy McFate, John Merenick, Nathan Mirdamadi, Benjamin Morrow, Abdul Azeez Mullattu Ebrahim, Amber Nair, Roza Nguyen, James O'Donnell, Teresa Olson, Morrine Omolo, Don Pagh, David Park, Aaron Patch, Yamila Perales De La Rosa, Brian Perry, Ruth Petran, Charles Pettigrew, Brian Poon, Stacey Popham, Gale Prince, Mingyu Qiao, Ravindra Ramadhar, Brian Ramsaur, Oscar Rodriguez-Gonzalez, Lindsey Ross, Joanne Ruebl, Anthony Saitta, Allen Saylor, Michele Sayles, Sara Scharber, Dina Scott, Mandy Sedlak, Adam Serfas, Nicola Sharman, David Shelep, Amarat Simonne, Kevin Smith, David Soper, Anna Starobin, Frederick Stokes, Rico Suhaimi, Irshad Sulaiman, Aparna Tatavarthy, Dimitri Tavernarakis, Jennie Thomas, Karl Thorson, Marcie Van Wart, Dan Vassar, Rhonda Vetzal, Stephen Walker, Michael Wendorf, Frances Widjaja, Jim Wilson, Tamara Wood, Kimberly Yeager, May Yeow, Burcu Yordem, Kris Young, Kang Zhou, and Joe Zindulis.

Number of Attendees: 164.

Meeting Called to Order: 8:00 a.m., Sunday, July 8, 2018.

Minutes Recording Secretary: Nadia Narine.

Old Business: Adoption of the 2017 Meeting Minutes. Gale Prince nominated to accept the minutes and Dale Grinstead seconded the motion which was approved. Vanessa Cranford provided an update on the webinars conducted throughout the year as well as the IAFF 2018 content prepared through the PDG. Vanessa provided an update that the PDG's success depends on the active involvement of the members for advancing the topic of sanitation in food safety. The participants that were actively involved in webinars and 2018 content development were thanked for their participation.

PDG 2017–2018 Webinars:

1. Dec 7, 2017 – Scott Burnett – Cleaning, Sanitizing, and the Seven Steps of Sanitation (Presented in English). 190 participants attended the English version.

- Jan 9, 2018 – Frank De La Guardia Venzal – Cleaning, Sanitizing, and the Seven Steps of Sanitation (Presented in Spanish). 340 participants attended the Spanish version.

PDG IAFF 2018 Program – PDG Proposals Accepted for IAFF 2018:

- Symposium: Session ID# 4855 – “How Well Do We Understand Microorganisms in a Food Handling Environment?” (Ruth Petran, Purnendu Vasavada, Jeff Kornacki) Tuesday, July 10, 8:30 a.m.–12:00 p.m.
- Workshop: Session ID# 4803 – “Workshop on Hygienic Design and Sanitation” (Richard Brouillette, Vanessa Cranford) Friday, July 6 and Saturday, July 7, 8:00 a.m.–5:00 p.m.
- Symposium: Session ID# 4824 – “Cleaning Validation: Approaches in Retail Food and Food Manufacturing Facilities” (Duane Grassman, Anna Starobin) Tuesday, July 10, 10:30 a.m.–12:00 p.m.
- Symposium: Session ID# 5081 “Starting Up After a Contamination Related Shut Down” (Jeff Kornacki, Kevin Lorcheim) Wednesday, July 11, 1:30 p.m.–3:30 p.m.
- Roundtable: Session ID# 5052 – “Best Practices for Safe Transportation of Food” (Aparna Tatavarthy, Michele Sayles, Vanessa Cranford) Monday, July 9, 3:30 p.m.–5:00 p.m.

PDG Co-supported Proposals – Program Committee Accepted for IAFF 2018:

- Primary PDG: Viral and Parasitic PDG. Session ID# 4975 “Sources of Norovirus and Hepatitis A: Emerging Monitoring Methods and Their Future” (Efi Papafragkou, Lee-Ann Jaykus, Guen Park, Naim Montazeri, Yale Larry). Tuesday, July 10, 1:30 p.m.–3:30 p.m.
- Primary PDG: Dairy PDG. Session ID# 4871 “Spores in the Global Dairy Industry Significance, Issues, and Challenges” (Purnendu Vasavada, Nicole Martin) Wednesday, July 11, 1:30 p.m.–3:30 p.m.
- Primary PDG: None. Session ID# 4972 “Environmental Pathogen Monitoring and Control for the Food Safety Modernization Act (FSMA) Preventive Controls Implementation” (Purnendu Vasavada, Doug Marshall) Wednesday, July 11, 8:30 a.m.–10:00 a.m.
- Primary PDG: Sanitary Equipment and Facility Design PDG. Session ID#44550 “Maximizing Food Safety and Quality through the Application of Good Hygienic Design” (Debra Smith) Wednesday, July 11, 10:30 a.m.–12:00 p.m.

New Business:

There were three presentations during the PDG annual meeting.

Richard Brouillette provided an update on the Hygienic Design and Sanitation Workshop that was held prior to IAFF 2018. The workshop consisted of 30 participants. The regions represented were North America, Europe, Middle East and Asia. It consisted of different industry sectors, academia, and government. The participants provided feedback on the success of the hygienic design content and hands-on learning experiences. A sanitation workshop will be planned again for IAFF 2019.

Jeff Kornacki provided an overview on STEC paradigms worth challenging of relevance to your plant. An overview was provided on the potential of STEC as a contaminant to a facility.

Duane Grassman provided an overview on SSOP Creation and key components for including in the development of SSOPs. The reasons that SSOP are ineffective and the success of SSOPs depends on the collaborate support of cleaning and sanitizing in the food safety system.

The PDG had interactive discussions on potential topics for development for IAFF 2019. The following are topic discussion summaries and topics for development from the PDG with the tentative point lead:

- Jeff Kornacki – Symposium: Novel and Emerging Technologies for Improving Sanitation.
- Richard Brouillette – Workshop: 2 Day Advanced Hygienic Design and Sanitation.
- Karl Thorson/Duane Grassman – Symposia: Sanitation SSOP Best Practices and Delivery Approaches.
- Kim Yeager – Symposium: Allergen Validation including hygienic practices for low-moisture food and cleaning.
- Laurie Hale – Symposium: EPA Labeling: How to read a label and application of a label in a sanitation program.

- Dina Scott/Michael Roberson – Symposium: Understanding *Listeria* and prevention in retail food safety. Sanitary design beyond NSF Certification for the retail and foodservice environment.
- Michelle Sayles – Symposium: Biofilm and low water activity foods as it relates to cleaning.
- Allen Saylor – Symposium: Sanitation and the impact on water to minimize water discharge.
- Steven Sims – Symposium: Plastics and Sanitation Cleaning Challenges.
- Lisa Lucore – Symposium: *Pseudomonas*, the overlooked contaminant.
- Mark Davis – Webinar and Roundtable: Best practices to prevent sanitation team turn-over and retention.
- Joseph Glenn – Symposium: Food Safety Culture in Developing a Sanitation Program Across a Cross-functional team.
- Elise Forward – Symposium: Supply Chain Verification of a Sanitation Program.

Recommendations to the Executive Board:

- Include Evan Rosen as Secretary to the PDG.
- Webinars to also be available for scheduling outside of normal business hours to reach targeted audiences in cleaning and sanitation.
- Suggestions that PDG meetings be Saturday and Sunday so all PDG meetings are not crunched into Sunday.

Next Meeting Date: July 21–24, 2019, Louisville, KY. Conference call to be scheduled for Friday, August 3 from 11:00 a.m.–12:00 p.m.

Meeting Adjourned: 10:00 a.m.

Chairperson: Vanessa Cranford.

Food Law PDG

Attendees: Rosetta Newsome (Vice Chair), Jayashan Adhikari, George Afari, Abimbola Allison, Ashley Arnold, Richard Arsenault, Fatemeh Ataei, Wendy Bedale, Zeb Blanton, Veronica Bryant, James Cook, Carl Custer, Nitin Dhowlaghar, Alejandro Echeverry, Eric Edmunds, Ashley Eisenbeiser, Sophia Elie, Mariem Ellouze, Aliyar Fouladkhah, Balasubramanian Ganesan, Timothy Gillam, Peggy Good, Leena Griffith, Sanjay Gummalla, Craig Henry, Monica Henry, Dylan Hinrichs, Renata Ivanek, Ananth Kasic, Ahyoon Kim, Mark Kreul, Jeong-Eun Lee, Xia Xi Dawn Li, Susan Linn, Brittany Magdovitz, John Mwangi, James O'Donnell, William Olson, Brian Poon, Kurt Rueber, Anita Scales, Jenny Scott, Anna Scrimenti, Caroline Smith DeWaal, Eric Stevens, Brad Sullivan, Akilyah Sumlin, Gloria Swick-Brown, Dan Vassar, Kirty Wadhawan, Isabel Walls, Peien Wang, Benjamin Waring, Josephine Wee, Christina Wilson, and Erin Woolf.

Number of Attendees: 56.

Meeting Called to Order: 3:15 p.m., Sunday, July 8, 2018 at the Salt Lake Convention Center, Salt Lake City, UT.

Minutes Recording Secretary: Brittany Magdovitz.

Minutes Preparer: Rosie Newsome, Food Law PDG Vice Chairperson.

Ice Breaker: After calling the meeting to order, Rosie Newsome, Vice Chairperson, welcomed participants, introduced herself, and indicated that she was standing in for Chairperson Tim Jenkins, who was regrettably not able to attend the meeting. Participants then engaged in an ice breaker to meet and get to know others, after which individuals then introduced others or in a few cases, themselves.

Introductions: Several specific role-based introductions were made. These included Ruth Petran, new Executive Board Liaison to the PDG; Mickey Parish, new Board and IAFF President; Brittany Magdovitz, new Student PDG Liaison, who also served as meeting Minutes Recording Secretary; and Erin Johnson, IAFF Staff Liaison.

Ruth Petran provided a brief update of information from the Board. The update included mention of the increase in Annual Meeting attendees, exhibitors, and members, and the *IAFF Report* sent via email.

On behalf of the PDG, Rosie Newsome thanked Mickey Parish for his tremendous service to IAFF; and congratulated him on his new role as President.

Agenda Approval: A motion was made, seconded, and carried to approve the agenda as distributed.

Student PDG: Brittany Magdovitz briefly described her interest in food law and the PDG, and background about her research focus. She also gave an overview of Student PDG activities, highlighting their Mentoring, Liaisons, and Recognition programs.

Review of Antitrust Guidelines: The Association Antitrust Guidelines were shown via two power point visuals, and Rosie read through them for the group.

Old Business:

Update from the Chair/Vice Chair Orientation Meeting: Rosie highlighted items addressed in the Chair and Vice Chair Orientation meeting, mentioning six areas of information: valuable operational information; nominations for awards are sought from PDGs as well as session proposals; information received in response to the "Continuous Improvement" survey of PDG Chairs and Vice Chairs, an outcome of which will be a review of the handbook for enhancement; continuing efforts to coordinate overlapping session proposal topics; upcoming webinar in August on proposal submissions; and key information needed for session proposals (i.e., session title and description, format, contact name, sponsoring PDG(s), and key words).

No items were received in response to the call for old business to reconsider.

Approval of Food Law PDG 2017 Minutes: A motion was made, seconded, and carried to approve the minutes of the 2017 meeting, which was held in conjunction with the IAFP 2017 Annual Meeting.

Speaker: Bradley Sullivan, Managing Attorney of the Sacramento Office of Borton Petrini, LLP, was introduced, and spoke to the group on aspects of food litigation. He addressed a few questions during and following his remarks.

2018 Sessions/Proposals with Food Law PDG Involvement: Rosie Newsome briefly reported that two session proposals for the 2018 IAFP Annual Meeting were accepted and scheduled. These are: S34: Food Fraud – Progress and Plans for Prevention and Management, and RT9: Do Lawsuits Play a Productive Role in Advancing Food Safety? Eight session proposals were not able to be accepted; these may be considerations for development into webinar submissions or redevelopment for 2019 session proposals. Many high-quality session proposals were received but were not able to be accepted due to space and time constraints.

New Business:

Terms of Current Chair and Vice Chair: Tim Jenkins' term as Food Law PDG Chairperson closes just prior to the 2019 IAFP Annual Meeting, as does Rosie's term as Vice Chair. Rosie will succeed Tim, moving into the Chairperson role at that time.

Vice Chair Election: Information about the process for the election of the position of Vice Chairperson, which will be open immediately prior to the 2019 IAFP Annual Meeting, will be provided following the 2018 PDG meeting, and the election will be conducted electronically between the 2018 and 2019 meeting. Volunteers and nominations were invited. Interested individuals and any one nominating others are to connect with Tim and Rosie.

Strategic Planning Session: Rosie introduced a strategic planning session, mentioning the discussion preparation that a small group had done via a recent conference call. The small group identified five big topic areas (FSMA; International Food Law; GMOs and Bioengineering; Proposition 65 and Chemical Hazards, subsequently supplemented by mention of the broader topic of State and Local Issues; and Nutrition, Health and Wellness). John Mwangi, James Cook, Sanjay Gummalla, and Fatemeh Ataie provided very brief descriptive background to these broad topics. No other broad topics were identified. Participants then engaged in subtopic idea generation within each of the five broad topic areas for future PDG activities (e.g., 2019 Annual Meeting sessions, and webinars). The ideas generated will be compiled by the small PDG group, and sent electronically to the PDG for review, refinement, prioritization, and activity planning. Also, volunteers to lead development of activities are invited.

2019 Session Ideas: Proposal ideas for the 2019 IAFP Annual Meeting will be drawn from the strategic planning session.

Recommendations to the Executive Board: None.

Next Meeting Date: Sunday, July 21, 2019, Louisville, KY.

Meeting Adjourned: 5:00 p.m.

Vice Chairperson: Rosetta Newsome.

Food Packaging PDG

Attendees: Nick Forshee (Chair), Kimberly Yeager (Vice Chair), Ayojesutomi Abiodun-Solanke, Jacquelyn Adams, Keith Amoroso, S. Balamurugan, David Basler, Leslie Beyer, Stine L. Bislev, Wei-Hsiang Chang, Chia-Yang Chen, Kay Cooksey, Charles Czuprynski, Ken Davenport, Mike Dziewatkoski, Balasubramanian Ganesan, Mohammed Hakeem, Lu Han, Terry Howell, Runze Huang, Christine Jampo, Tony Jin, Dwayne Johnson, Bernice Karlton-Senaye, Ahyoon Kim, Kalmia Kniel, Vaneer Komolprasert, Linda Leake, Jeong-Eun Lee, Wan Mei Leong, Xinhui Li, Luyao Ma, Charles Muyanja, James O'Donnell, Ana Romero-Vega, Kurt Rueber, Lee-Yan Sheen, Robert Tauxe, Virginia Till, Rhonda Vetzal, and Qing Wang.

Number of Attendees: 41.

Meeting Called to Order: 1:00 p.m., Sunday, July 8, 2018.

Minutes Recording Secretary: Kimberly Yeager – Vice Chairperson.

A message from the outgoing Chairperson, Ken Davenport, was shared with the PDG. All in attendance introduced themselves, shared information regarding their professional background, and provided some interesting facts about their personal lives.

The IAFP anti-trust guidelines were reviewed.

An IAFP Board Liaison was not able to make it to the meeting for an IAFP update.

Old Business: Reviewed key messages from the 2017 meeting minutes. It was recommended that all members review these notes and reach out to Nick Forshee or Kim Yeager with any questions, suggestions, or concerns. The minutes of 2017 Annual Meeting can be found online at <https://www.foodprotection.org/upl/downloads/committee-pdg/minutes/59de272451b0d01c96654.pdf>.

Advised the PDG of symposia submitted/accepted by the PDG for this year's conference:

- Antimicrobial Materials Developed for In-packaging Pasteurization: Approaches and Challenges, presenters: Tony Jin, Xuotong Fan, Brendan A. Niemira; Monday, 10:30 a.m.
- Nanotechnology in Food Packaging: Antimicrobial and Pathogen Detection Capabilities for Food Safety, Protection and Defense, presenters: Jozef Kokini, Paul Takhistov, Joan Sylvain Baughan; Wednesday, 10:30 a.m.

New Business: Nick Forshee is now the acting Chairperson of the Food Packaging PDG. Kimberly Yeager is now the acting Vice Chairperson. They opened the floor to gauge the interest of the PDG in how to make the PDG and the annual Food Packaging PDG Meeting better.

- The PDG was interested in having speakers or an educational session included in the annual Food Packaging PDG meeting. PDG feedback was to bring in a panel of packaging experts for a roundtable type discussion. Preferred speakers will have knowledge regarding symposia topics brought up during the meeting that do not get accepted for the coming year (2019).
- The PDG would like more opportunities to network with members of the PDG at the Annual Meeting.
- The PDG would like a method to better communicate and share ideas throughout the year within the PDG. Recommendation was made to create a private Facebook group or other social media outlet for the PDG. Vote was taken and all members present were in favor. None opposed. Nick and Kim to look into implementation of this PDG recommendation.

The Lotus Blossom concept was used for brainstorming symposia ideas. Output and primary organizers are listed below. Any people named below are to further research and develop their topics and be able to provide a report on a PDG call to be scheduled by Nick and Kim for August. Nick and Kim will be sending out an e-mail to the PDG membership outlining all symposia items discussed, members that wanted to support

symposia ideas, and all contact information required to further assist with symposia submissions.

A majority of those in attendance were not yet Food Packaging PDG members and asked for guidance on how to join. Nick will send out notes to all in attendance as to how to become a member.

- Anyone interested in joining the PDG can request to be added via an e-mail to Nick Forshee at Nicholas.forshee@chobani.com or IAFP members can join by logging into the IAFP website and review the "Get Involved" tab for guidance.
- Symposia Ideas:
 1. Chemical Safety in Food Packaging – Organizer: Mike Dziejatkoski.
 2. New Packaging Materials and Advancements – Organizer: Tony Flood.
 3. E-Commerce Packaging – Organizer: Qing Wang.
 4. Packaging Compliance with FSMA and other Regulations – Organizer(s): Kay Cooksey w/ Vanee Komolprasert (TBD).
 5. Active and Intelligent Packaging – Organizers: Ana Romero-Vega and Bernice Karlton-Senaye.
 6. Sustainability – Organizer: Ken Davenport.
 7. Failure Modes in Packaging – Organizer: Not enough interest at this time. Listed for future consideration.

Recommendations to the Executive Board:

1. Recommend that the Board approve Kimberly Yeager as Vice Chairperson of the Food Packaging PDG.

Next Meeting Date: July 21–24, 2019, Louisville, KY. Food Packaging PDG conference calls to be scheduled by Nick and Kim.

Meeting Adjourned: 3:00 p.m.

Chairperson: Nicholas P. Forshee.

Food Safety Assessment, Audit and Inspection PDG

Attendees: Tricia Wester (Chair), Abdulaziz Alzimami, Keith Amoroso, Ilan Arvelo-Yagua, Sylvia Bergman, Tom Black, James Chen, Judy Chen, Lisa Chen, LeAnn Chuboff, Andrew Clarke, Rocelle Clavero, Carl Custer, Holly Dance, Brian Eblen, Elise Forward, Monica Galleguillos, Balasubramanian Ganesan, Donna Garren, Constantin Genigeorgis, Gaurav Ghai, Leena Griffith, Cherie Gudz, Jesus Guzman, Laurie Hale, Paula Herald, Dylan Hinrichs, Jessica Hofstetter, Emily Hovis, Phyllis Hu, William Huntley, Jennifer Jolly, Michael Kalish, Sue Kaminski, Jenifer Kane, Ahyoon Kim, Kathy Knutson, Jeong-Eun Lee, Marie Limoges, Jeffrey Lindholm, Patrick Logan, Kory Longhurst, Tatiana Lorca, James Marks, Barbara Masters, Alejandro Mazzotta, Maia Metreveli, Theresa Meves, Eric Moore, Deepika Morey, Katia Noll, James O'Donnell, Adeniyi Odugbemi, Teresa Olson, Ruth Petran, Howard Popoola, Terry Pruden, Alejandra Ramirez, Oscar Rodriguez-Gonzalez, Marcos Sanchez, Don Schaffner, Jason Scheffler, Mandy Sedlak, Nicola Sharman, Arianna Smith, Caroline Smith DeWaal, Scott Thacker, Jennie Thomas, Corey Troutman, Tomohiko Tsurumaru, Ching-Yu Tu, Angela Valadez, Benjamin Waring, Steve Warshawer, Hechen Wei, Richard Whiting, Jim Wilson, Zhinong Yan, May Yeow, and Kristen Ziegler.

Number of Attendees: 80.

Meeting Called to Order: July 8, 2018, 3:15 p.m.

Minutes Recording Secretary: Trish Wester.

Old Business: Reviewed 2017 minutes. A motion to accept was made by Carl Custer, seconded by LeAnn Chuboff, and approved with no changes.

New Business: Nominations for Vice Chair: David Brock, Dairy Farmers of WI, was nominated by Oscar Rodriguez-Gonzales prior to the meeting. The Chair called for other nominees:

Sue Kaminsky, Prometrics, was nominated by LeAnn Chuboff. A motion to close nominations was seconded. The vote was held with Sue Kaminski elected as Vice Chair.

Recommendations to the Executive Board:

1. Recommend the Board accept Sue Kaminski as Vice Chair.

Next Meeting Date: July 21–24, 2019, Louisville, KY.

Meeting Adjourned: 5:15 p.m.

Chairperson: Patricia A. Wester.

Food Safety Culture PDG

Attendees: Megan L. Kenjora (Chair), Lone Jespersen (Vice Chair), Cameron Bardsley (Student Liaison), Sultan Al Taher, Sulaiman Aljasir, Lucia Anelich, Hussam Azzam Mohammed, Brita Ball, Suchitra Basudkar, Mark Beaumont, Rachael Blevins, Neil Bogart, James Chen, Nitin Dhowlaghar, Joan Donelan-Weber, Monica Galleguillos, Balasubramanian Ganesan, Charles Giambone, Jana Gorveatt, Jesus Guzman, Phyllis Hu, Michael Kalish, Ahyoon Kim, Jeong-Eun Lee, Shihan Lin, Kory Longhurst, Deon Mahoney, Ryan Maus, Benjamin Morrow, Morrine Omolo, Jaime Ragos, Marc Scanlon, Carla Schwan, Nicola Sharman, Amarat Simonne, Debbie Stroud, Joni Sweet, Virginia Till, Tomohiko Tsurumaru, Carol Wallace, Zhinong Yan, and Wenjie Ying.

Number of Attendees: 42.

Meeting Called to Order: 1:10 p.m., Sunday, July 8, 2018.

Minutes Recording Secretary: Cameron Bardsley.

Old Business: Approved the 2017 meeting minutes with a majority vote.

New Business:

Goals of 2018 meeting:

- Share and learn from best demonstrated practices related to top PDG areas of interest.
- Identify 2019 symposia/roundtable/workshop topics and organizers.
- Identify development teams to share BDPs with wider IAFP membership (articles, webinars, etc.).

IAFP 2018 Symposia: 20 submissions with five accepted sessions.

Members were provided a hard copy of the Global Food Safety Initiative Technical Working Group Position Paper on Food Safety Culture, a special edition of *Food Safety Magazine* related to food safety culture, and the Cultivate maturity model tied to the five dimensions of the GFSI position paper.

Members reviewed the definition of food safety culture as per the position paper and were broken up into five groups to share best demonstrated practices (BDPs), identify symposia ideas for 2019, and other topics of interest for a webinar or article publications.

Members then rotated around the five dimensions led by Nicola Sharman, Dr. Brita Ball, Dr. Carol Wallace, Melanie Neumann, and Mark Beaumont. At each dimension, members shared best demonstrated practices related to that area, road blocks to achieving an objective or BDP, and successful tactics. Members engaged in detailed conversation and idea sharing relating to each of the areas for the majority of the meeting.

Group leaders provided a report out of the main ideas from each dimension, which will be transcribed in detail with all of the notes taken during the meeting to be disseminated to the wider PDG audience for review and further development. Megan Kenjora will schedule a PDG call based on a Doodle Poll to discuss specific organizers and follow up on the topics to be further developed.

This was the first time the meeting has been a rotating, detailed discussion and feedback was solicited and given related to the meeting structure.

- **Pros:** Good collaboration, gave the opportunity for individuals to see what other people are doing across companies and industries, and how it can transfer to a member's specific company. This format can be easily transformed into a workshop.
- **Suggestions:** The room was loud, have fresh sheets/new perspectives for each arriving group instead of reviewing already discussed topics, dark marker vs pens so all members can see information written on Post-its, improve facilitation to ensure one member does not dominate the discussion, maybe have groups stay and leaders rotate.

Anyone wanting to participate in the article series in *Food Protection Trends* should contact Lone Jespersen lone@cultivatefoodsafety.com.

If you are interested in having a workshop in China and translation of GFSI position paper into Chinese contact Dr. Zhinong Yan, Walmart Food Safety Collaboration Center, (zhinong.yan@walmart.com).

Recommendations to the Executive Board:

1. Recommend Food Safety Culture PDG and HACCP PDG do not share a time slot as Members were going back and forth between the two.
2. Better technology for sharing information and BDPs – emails are cumbersome and get lost, the website does not allow engagement, and communicating across time zones is very difficult using only email and calls during limited hours.

3. Technology updates for conference calls as it is difficult to hear and know who is speaking.

Next Meeting Date: July 21–24, 2019, Louisville, KY.

Meeting Adjourned: 3:04 p.m.

Chairperson: Megan L. Kenjora.

Food Safety Education PDG

Attendees: Brita Ball (Chair), Francie Buck (Vice Chair), Gina (Nicholson) Kramer, Ayojesutomi Abiodun-Solanke, Jose Luis Almanza Rubio, Elizabeth Andress, Steve Arave, Louisa Bachman, Adam Borger, Stephanie Brown, Janet Buffer, Marisa Bunning, Cigdem Caban, M. Alexandra Calle, Joyce Cao, Jeffrey Clark, Shannon Coleman, Shani Craighead, Courtney Crist, Katie Del Rosario, Nitin Dhowlaghar, Erin DiCaprio, Erin Ducko, Minh Duong, Duygu Ercan Oruc, Sara Farmer, Shelley Feist, Betty Yaohua Feng, Connie Freese, Balasubramanian Ganesan, Ashley Garwatoski, Kerri Gehring, Catherine Gensler, Sandria Godwin, Leon Gorris, Jana Gorveatt, Robert Gravani, Jesus Guzman, Steve Hails, Judy Harrison, Erin Headley, Shauna Henley, Patricia Homola, Jason Horn, Emily Hovis, Sanja Ilic, Kris Ingmundson, Lone Jespersen, Chris Jordan, Charles Kalish, Megan Kenjora, Annette Kenney, Ahyoon Kim, Kalmia Kniel, Jovana Kovacevic, Robert Kramer, Caitlynn Kreis, Margaret Lamson, Jeong-Eun Lee, Katrina Levine, Yan Luo, Fatemeh Malekian, James Marks, Rachel McDowell, Deborah McIntyre, Maia McNair, Tetsuya Mori, Abdul Azeez Mullattu Ebrahim, Charles Muyanja, Laura Nelson, Sergio Nieto-Montenegro, Bhavini Patel, Alda Pires, Jennifer Quinlan, Jaime Ragos, Brian Ramsaur, Paula Rivadeneira, Michael Roberson, Lisa Ross, Robert Sakata, Britanny Saunier, Lester Schonberger, Carla Schwan, Angela Shaw, Adrienne Shearer, Amarat Simonne, Clint Stevenson, Tori Stivers, Debbie Stroud, Scott Thacker, Virginia Till, Phillip Tocco, Stephen Tracey, Carol Wallace, Michael Wendorf, Asher Wenig, Chanelle White, Steven White, Wenqing Xu, Lily Yang, Zhihui Yang, Ian Young, and Marcel Zwietering.

Number of Attendees: 103.

Meeting Called to Order: 3:20 p.m., Sunday, July 8, 2018.

Minutes Recording Secretary: Francie Buck.

Old Business: Task Group Reports: Betty Feng (prepared by Betty and Ellen Evans) gave her report on the Food Safety Education PDG mission – follow up with membership in 2018/2019 to finalize.

Group Activity: What should the mission of the Food Safety Education PDG be? 5 minute break-out Sessions; reports returned (Francie/Brita have additional notes).

Wennie Xu: Gave an update on “Before Disaster Strikes” Pamphlet revision group (completed – awaiting feedback from several governmental agencies).

New Business: Vice Chair Elections this year.

- Vice Chair elections will be completed following 2018 conference.
- Will provide information on the Vice Chair responsibilities for membership and call for nominations.

New Session Ideas were generated through parallel ideation:

- How do you make food safety training more effective? Roundtable on techniques for more effective communication (Don't Hate – Communicate).
- Education – Penn State (Iowa) Plain Population (Amish).
- Online tools – out of the box vs. in house.
- How to measure ROI on training?
- Innovative instructional technologies and pedagogies for today's learner for multi-generation training.
- Are college students workforce ready?
- Communicating with Consumers.
- Minimize Waste and Maximize Safety.

Webinars: Train the Trainer – tools and strategies.

Recommendations to the Executive Board: None.

Next Meeting Date: July 21–24, 2019, Louisville, KY.

Meeting Adjourned: 5:17 p.m.

Chairperson: Brita Ball.

Fruit and Vegetable Safety and Quality PDG

Attendees: Humberto Maldonado (Chair), Gretchen Wall (Vice Chair), Achyut Adhikari, Adam Alberson, Sarah Allard, Jamie Allen-Hitt, Peiman Aminabadi, Ted Andrew, Bassam Annous, Steve Arave, Uma Babu, Jianfa Bai, Daniel Bair, Kannan Balan, David Basinger, Pierre Olivier Beal, Larry Beuchat, Elizabeth Bihn, Rachel Binet, Bledar Bisha, Craig Bolt, Richard Brouillette, Annemarie Buchholz, Marisa Bunning, Kellie Burris, Loan Cao, Catharine Carlin, Travis Chapin, Jennifer Chase, Vijay Chhetri, Mike Clark, Shannon Coleman, Michael Cooley, Sarah Correll, Duncan Craig, Shani Craighead, Vanessa Cranford, Willette Crawford, Cecilia (Maria) Crowley, Carl Custer, Michelle Danyluk, Joseph Darden, Nathan Decker, Pascal Delaquis, Kaiping Deng, Govindaraj Dev Kumar, Claudia Diaz, Francisco Diez, Jill Dunlop, Laurel Dunn, Teri Ehlinger, Erika Estrada, Jeffrey Farber, Willis Fedio, Angela Ferelli, Emily Forauer, Gina Frontino, Tong-Jen Fu, Balasubramanian Ganesan, Samantha Gartley, Gary Gensler, Charles Giambone, Timothy Gillam, Leah Gilman, Jonathan Glynn, Bonnie Grimes, Sanjay Gummalla, Eduardo Gutierrez-Rodriguez, Gina Hall, Jeffrey Hall, Diana Hao, Christina Harzman, Fawzy Hashem, Yingshu He, Yiping He, Joe Heinzelmann, Evan Henke, Shauna Henley, William Henry, Sunee Himathongkham, Patricia Homola, Jeffrey Hutchison, Sanja Ilic, Kari Irvin, Keith Ito, Andrew Jacobson, Karen Jarvis, Alex Josowitz, Jasmine Kataria, Peter Kennedy, Annette Kenney, Karuna Kharel, Ahyoon Kim, Kalmia Kniel, Robert Koeritzer, Larry Kohl, Lori Kora, Shigenobu Koseki, Shira Kramer, Mark Kreul, Kunihiko Kubota, Pongpan Laksanalamai, Keith Lampel, Eduardo Lecea, Jeong-Eun Lee, Wan Mei Leong, Shenmiao Li, Marie Limoges, Pushpinder Kaur Litt, Teresa Lopez, Dumitru Macarisin, Humberto Maldonado, Fatemeh Malekian, Martin Martinez, Justin McConaghy, Rachel McEgan, Sherri McGarry, Patricia Millner, Buffy Montgomery, Thabang Msimango, Amber Nair, Nadia Narine, Angela Nguyen, Brendan Niemira, Sergio Nieto-Montenegro, Xiangwu Nou, James O'Donnell, Ynes Ortega, Omar Oyarzabal, Jitu Patel, Robin Peterson, Aaron Pleitner, Juan Ponce De Leon, Brian Poon, Hang Qi, Mingyu Qiao, Sarita Raengpradub, Mohsen Ranjbaran, Loandi Richter, Carrie Rigdon, Paula Rivadeneira, Mika Roberts, Channah Rock, Lindsey Ross, Gerard Ruth, Surasri Sahu, Anthony Saitta, Robert Sakata, Yasser Sanad, Diana Vanessa Sarria Zuniga, Vicki-Lynne Scott, Manan Sharma, Michelle Smith, Caroline Smith DeWaal, Sarah Speelman, Lindsay Springer, Don Stoeckel, Stacy Stoltzenberg, James Stover, Trevor Suslow, Gloria Swick-Brown, Ben Tall, Sandra Tallent, Brad Taylor, Cindy Taylor, Siddhartha Thakur, Leslie Thompson-Strehlow, Virginia Till, Phillip Tocco, Ching-Yu Tu, Brian Umberson, Gretchen Wall, Morgan Wallace, Isabel Walls, Kaidi Wang, Chanelle White, Brooke Whitney, Christina Wilson, Catherine Wong, Randy Worobo, Mu Ye, Hsin-bai Yin, Jiaojie Zheng, and Claire Zoellner.

Number of Attendees: 182.

Meeting Called to Order: 1:00 p.m., Saturday, July 8, 2018.

Minutes Recording Secretary: Sherri McGarry.

Old Business: Minutes from 2017 meeting were adopted without changes.

New Business: Outgoing Chair, Sherri McGarry, thanked the PDG for the opportunity to serve as Chair and welcomed Humberto Maldonado as Incoming Chair. The Chair provided the CV of the two nominees, Channah Rock and Gretchen Wall, and asked for any additional nominations. No additional candidates were nominated. The two nominees introduced themselves and gave an overview of their experience. The PDG members elected Gretchen Wall as the 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 Michelle Smith, FDA CFSSAN. An overview of the organizational structure of the two Branches in the Division of Produce Safety was provided with the Produce Safe Branch (PSB) dealing more with implementation of the Produce Safety Rule and the Processed Produce Branch working with the Preventive Controls Rule though there is some overlap. Three draft guidance documents are under development. One is intended to aid industry in complying with the Produce Safety rule and that draft guidance should be published soon. There plans to be four regional public meetings held once that guidance is published; feedback on the draft guidance requested. An extension for compliance of Ag water requirements in the PSR

should issue soon; FDA using enforcement discretion. Produce Safety Network (PSN) is also under purview of the PSB; primary responsibilities of PSN staff is education, outreach, building knowledge of local production practices, and promoting compliance with PSR. Also, PSN staff in the FDA field offices (ORA) primary responsibilities are to conduct farm inspections with state partners, where applicable, also they are key to gaining insights needed to develop Fact Sheets (more to be published).

Produce Safety Alliance Updates: Betsy Bihn, Cornell University, provided the update. (<http://producesafetyalliance.cornell.edu/>). Over 1000 grower trainings held, 288 international training, and about 1800 PSA trainers trained. Trainings held in almost every state. PSA continues to work on capacity building, expanding collaborations, and mentoring professionals interested in becoming a trainer. PSA continues to serve as a resource clearinghouse and facilitate gatherings (ex., soil and water summits) of key partners and conduct focus groups. Also, they help growers maintain market viability. PSA maintains a national listserv; join from website or contact Betsy. Funding for PSA will be running out soon; grants alone won't keep them afloat. PSA to publish schedule of trainings from now until end of their funding. Advanced training, in collaboration with Trevor Suslow, is under development.

Sprout Safety Alliance Update: Kaiping Deng, IFSH/IL Institute of Technology, provided the update. (<https://www.ifsh.iit.edu/ssa>) After initial launch of SSA training materials they received feedback and issued revised training materials April 2017 with the online version finalized in December 2017. Piloted training course in February 2018. Four courses planned this year with last one next week. Feedback from participants suggests developing virtual course instead of in-person sessions. Focus of training will be small growers. Thirty-two trainers trained. Sprout producers requested video to better understand how to perform a risk assessment (relevant to Rule) and also sampling issues. SSA technical assistance launched last year; additional outreach efforts took place.

Outbreak Update: The outbreak update was given by Brooke Whitney, FDA CORE. Overview of CORE's organization structure and how they work collaboratively with states and CDC. Summary of pathogens (*E. coli* O157, *Salmonella*, *L.m*) and produce items associated with multistate outbreaks that FDA was involved along with general product source information, if available. Highlighted a few outbreaks of particular interest, such as *Salmonella* outbreaks linked to shredded coconut and papayas. MMWR publication this year on outbreaks linked to coconuts. CORE's website: www.fda.gov/Food/recallsoutbreaksemergencies/outbreaks.

Other New Business: Members approved a motion to hold webinars next year and to encourage greater participation of students in the PDG. One idea was to offer students mentorship opportunities; members commented that there's an existing IAFP mentoring program. It was suggested that either at next year's PDG meeting or before, to share information on the existing mentoring program. Humberto Maldonado will contact the Student PDG.

PDG members brainstormed topics for symposia/roundtable as a group, and then at 2:30 p.m. broke out into groups by topic areas for the remainder of the meeting.

- Produce Traceability: Where We are and Where We Want to Go.
- Global Ag Water Challenges and Methods to Overcome Them.
- Packing RACs: Challenges to Sanitation and Equipment Design.
- What's Changed: 2018 *E. coli* O157 Outbreak Linked to Leafy Greens Produced in Yuma.

Kali Kniel provided the Executive Board Report.

Recommendations to the Executive Board:

1. Recommend to the Board that the Gretchen Wall, Cornell University, be approved as Vice Chair of the PDG.

Next Meeting Date: July 21, 2019, Louisville, KY.

Meeting Adjourned: 3:00 p.m.

Chairperson: Humberto Maldonado.

HACCP Utilization and Food Safety Systems PDG

Attendees: Lorilyn Ledenbach (Chair), Deann Akins-Lewenthal (Vice Chair), Abimbola Allison, Gabriela Arteaga Arredondo, Ilan Arvelo-Yagua, David Basler, Pierre Olivier Beal, Tom Black, Zeb Blanton, David Blomquist, Ernest Bonah, Nancy Bontempo, Marlita Burford, Laurel

Burke, Dennis Burson, Francis Busta, Carrie Clark, Andrew Clarke, Rocelle Clavero, Angel Conde, Sally Crowley, David Crownover, Ashley Cunningham, Kelly Dawson, Alejandro Echeverry, Mariem Ellouze, Martin Guy Ethy Ethy, Aliyar Fouladkhal, Lena Fritsch, Monica Galleguillos, Balasubramanian Ganesan, Bina Gautam, Nelson Gaydos, Virendra Gohil, Cherie Gudz, Anyi Gutierrez, Anna Hilgart, Dylan Hinrichs, Clint Holsomback, Kenta Homma, Anthony Huntley, Brynn Husk, Tim Jackson, Bala Jagadeesan, Hidehito Kai, Ananth Kasic, Diana Kassir, Duane Kaufman, Amit Kheradia, Ahyoon Kim, Amanda Kinchla, Sally Klinec, Jeong-Eun Lee, Lacey Lemonakis, Shenmiao Li, Patrick Logan, Kory Longhurst, Tatiana Lorca, Suzanne Mailman, Manu Manohar, Michele Manuzon, Maia Metreveli, Molly Mills, Mark Moorman, Abdul Azeez Mullattu Ebrahim, Sara Munoz, John Mwangi, Katia Noll, Philip O'Connor, Deborah OHara, Alejandra Ramirez, Tina Rendon, Tanya Roberts, Ana Romero-Vega, Yasser Sanad, Allen Saylor, Donna Schaffner, Jason Scheffler, Sara Schoen, Shawna Schwab, Jenny Scott, Shima Shayanfar, John Sofos, Marianne Solomotis, Rico Suhaim, Joni Sweet, Brad Taylor, Harshavardhan Thippareddi, Kaidi Wang, Hechen Wei, Frances Widjaja, Pamela Wilger, Xiaorong Wu, Burcu Yordem, Kris Young, Peipei Zhang, and Jiaojie Zheng.

Number of Attendees: 97.

Meeting Called to Order: 1:00 p.m., Sunday, July 8, 2018.

Minutes Recording Secretary: Deann Akins-Lewenthal.

Lori Ledenbach welcomed members, Executive Board Member Tim Jackson gave a Board update, introductions were made, and the Antitrust Guidelines were reviewed.

Old Business: The agenda was reviewed and approved and last year's Minutes were voted on and approved by the group. The 2018 symposia that were sponsored or co-sponsored by the HACCP PDG were reviewed.

New Business:

Jenny Scott – Update on Codex Committee of Food Hygiene:

- The group is updating the general principles of food hygiene and the HACCP annex. This has been ongoing for the past 3 years. Lots of discussions around control measures that are not critical control – what should they be called? No term has been decided but there is agreement that there are controls that applied that are not considered critical but are very important. Next step is to determine how to integrate it into the Codex document.
- Should all businesses perform hazard analysis, including food service? Every food business needs to be aware of food hazards for the foods they are making. There may not be an expectation for them to do a hazard analysis as outlined in the first principle of HACCP. Still in discussion as some business hygienic practices alone are enough. What businesses would this apply to? What criteria should be used to define if GHP are enough?
- Managing food allergens in food business – document will be created.
- Validation and verification – there will not be an additional HACCP principle – can do a better job for explaining the difference between validation and verification. Is validation still part of verification or should they be separated? Jenny described the differences between validation and verification as she sees it, but the bottom line is that it really doesn't matter whether it is called validation or verification, just as long as you do it. The document is trying to capture the concept of preventive controls without calling them "enhanced GHPs", and may include information on verification and validation of certain preventive measures that are not CCPs.

Break-out sessions:

- Why are we still seeing recalls like *Salmonella* in breakfast cereal and *Cyclospora* in veggie trays? Is there anything that improvements in HACCP/Food Safety systems can do to prevent this? Discussion centered on implementation and still the possibility for human error, possible symposium development with Food Safety Culture PDG.
- How can we better reach small and artisan producers with HACCP information? Group explained how it is hard to get small producers to even know that they have to do HACCP. They can get PCQI trained, but they need to be led into it carefully, and can't just expect them to start off running with it.
- Expansion of food safety systems concept – what is beyond HACCP? Is HACCP ever really done? Good roundtable idea coming out of this to coordinate with other PDGs.

- Microbial modeling and risk assessment for hazard analysis – include FMEA and statistical analysis for risk assessment. Came up with good idea for two part symposium.

2019 Symposia brainstorming was completed with several ideas for symposia, an idea for a roundtable, and an idea for a workshop:

- Why are we still seeing recalls like *Salmonella* in breakfast cereal and *Cyclospora* in veggie trays? Is there anything that improvements in HACCP/Food Safety systems can do to prevent this?
- Supplier verification activities – what is really needed? As it relates to audits, scientific basis of preventive controls, choosing the appropriate validation of process controls (i.e., using the right surrogate), and disclosure statements. Speakers from various parts of the supply chain and address the categories along the supply chain.
- Roundtable with representation from several PDGs: Getting to the next level of Food Safety: Is it better HACCP/Preventive Control plans or better foundational programs: Sanitation, Environmental Controls, Food Safety Culture, and Food Safety Education – that will get us to the next level of foodborne disease prevention?
- Roundtable with other PDGs: HACCP vs. a Food Safety Plan – how do we help companies improve implementation?
- Workshop on Food Safety Plan Builder.
- Use of Microbial Modeling, FMEA, and statistical analysis to aid in risk assessment for hazard analysis.

Recommendations to the Executive Board:

1. Consider a better system for cross-communication between PDGs that are closely related (like Food Safety Culture and HACCP Food Safety Systems). Not all PDG work is for symposium development, so just coordinating symposium ideas on a spreadsheet is only the first part of this. Is there any way to schedule meetings to allow for some overlap time that is shared between PDGs before they break out into their own separate meetings? Or else don't schedule them at the same time.

Next Meeting Date: July 21–24, 2019, Louisville, KY. A conference call will be on August 28, 2018, 2:00 p.m.–3:00 p.m. CDT.

Meeting Adjourned: 3:00 p.m.

Chairperson: Loralyn Ledenbach.

International Food Protection Issues PDG

Attendees: Leon Gorris (Chair), Ian Jenson (Vice Chair), Ayojesutomi Abiodun-Solanke, Bassam Annous, Steve Arave, Hussam Azzam Mohammed, Pierre Olivier Beal, Peter Ben Embarek, DeAnn Benesh, Roy Biggs, Ernest Bonah, Leslie Bourquin, Robert Brackett, Marion Castle, Roger Cook, Duncan Craig, Sally Crowley, Heidi Den Besten, Maria Teresa Destro, Francisco Diez, Kevin Edwards, Patrick Fach, Jeffrey Farber, Fereidoun Forghani, Elise Forward, Balasubramanian Ganesan, Francisco Garces Vega, Ted Gatesy, Rusty Gildner, Lawrence Goodridge, Judy Greig, Jesus Guzman, Gina Hall, Janette Handley, Diana Hao, Arie Havelaar, Evan Henke, Sunee Himathongkham, Christine Jampo, John Jarosh, Hidehito Kai, Janell Kause, Mark Kazmierczak, Amit Kheradia, Karim Khinouche, Ahyoon Kim, Vaneer Komolprasert, Bobby Krishna, Keith Lampel, Mariza Landgraf, Yale Lary, Jeong-Eun Lee, Jeffrey LeJeune, Kory Longhurst, Gilma Luna, Deon Mahoney, Conor McGauran, Mark Moorman, Charles Muanja, John Mwangi, Roza Nguyen, Andrew Pearson, Ruth Petran, Jeffrey Read, Allen Saylor, Jenny Scott, Amarat Simonne, Manpreet Singh, Thierry Sofia, Marianne Solomotis, Varalakshmi Sudagar, Dimitri Tavernarakis, Anna Theil-Gangl, Deepa Thiagarajan, Harshavardhan Thippareddi, Virginia Till, Ewen Todd, Isabel Walls, Frances Widjaja, Pamela Wilger, Anett Winkler, Guodong Zhang, Wen Zou, and Marcel Zwietering.

Number of Attendees: 84.

Meeting Called to Order: 2:31 p.m., Saturday, July 7, 2018 by Leon Gorris, Chairperson.

Minutes Recording Secretary: Ian Jenson, Vice Chairperson.

Note: copies of the slides presented during the meeting can be requested from the Chairpersons.

Welcome and introductions

Leon opened the meeting and welcomed the PDG members and guests to the meeting. He reminded the participants of the purpose of the meeting and presented the anti-trust guidelines and the proposed agenda.

Greetings and comments from IAFP Board Member were presented by Roger Cook. Some key points:

- Expected 2018 Annual Meeting participation 3800 (up from 3642 in 2017) and IAFP membership now 4,300 Members (20% outside of North America).
- 90 out of 200 symposia proposals were accepted by the Program Committee this year. Consider not-accepted quality proposals for webinars.
- PDGs have been encouraged to consider activities to recognize student achievements.
- IAFP International: 2018 European Symposium held in Stockholm (April, 370 participants). Forthcoming: Latin America Symposium: September 25 to 27, 2018, Buenos Aires, Argentina; Dubai International Food Safety Conference (DIFSC): October 29 to 31, 2018, Dubai, UAE. China International Food Safety and Quality Conference (CIFSQ), November 7 – 8, Shanghai, China. IAFP Europe: April 24–26, 2019, Nantes, France.

Attendees briefly introduced themselves.

Review of Agenda – Call for additional items

- Leon called for any additional items for the agenda. The need to discuss election of a Vice Chair for the PDG was added to the agenda.

Old Business:

Discussion/Adoption of the 2017 PDG Meeting Minutes

- The minutes of the 2017 PDG meeting were accepted as printed in *FPT*. (Moved M. T. Destro, seconded by J. Farber).

New Business:

Overview of IAFP 2018 program (Symposia and other Sessions of PDG relevance)

- Five suggestions from this PDG last year were accepted for this year's program – and 11 others can be considered for resubmission for next year or as webinar subjects.
- An overview of the program was provided by Leon. Items of international interest were highlighted.

Short Updates on Food Safety developments from around the world

- The Chairpersons had invited PDG members on the roster prior to the meeting to present an update and a large number of members responded.
 1. FAO (Jeff Lajeune) discussed a number of topics of current work by FAO, including: Shiga toxin-producing *E. coli*, water quality (primary production; re-use in food industry), Antimicrobial Resistance, capacity building for foodborne disease surveillance (details and links in addendum 1 which will be posted on the website).
 2. WHO (Peter Ben-Embarek) noted recent work by WHO, including: Whole Genome Sequencing, INFOSAN network, *Listeria* outbreak in South Africa. FAO/WHO food safety conference next April to be held in Geneva. Details/links in addendum 2 which will be posted on the website).
 3. Australia (Deon Mahoney) discussed country of origin labelling, health star rating for consumer nutrition advice, compendium of process hygiene criteria being developed and loaded on the Food Standards Australia New Zealand website. *Listeria* outbreak traced to Rock Melons (cantaloupes) including exported product. Hepatitis A traced to imported frozen pomegranate.
 4. Food Safety Preventative Controls Alliance (Bob Brackett) update: training documentation and translations available. Over 60,000 people have been trained, including internationally. Greater uptake of training by international suppliers is expected in future. More lead trainers may be required outside of North America.
 5. Canada (Jeff Farber). Health Canada releasing guidance on *C. botulinum* in mushroom products; another on fish products. All microbiological criteria are being reviewed. Risk assessments completed: *E. coli* O157 in Gouda cheese. *S. Enteritidis* in frozen chicken products (will require *Salmonella* to be undetectable in final product). MRA on *E. coli* O121 in flour is under investigation. ISOPOL *Listeria* conference will be in Toronto in September 2019.
 6. New Zealand (Marion Castle). Restructure in the Ministry for Primary Industries. Implementation of traceability requirements. NZ published a total dietary survey (important for chemical

risk assessment). Case-control study on campylobacteriosis. Issuing a guide for senior managers and company directors on the importance of food safety culture. Commencing work on vibrios in seafood.

7. Dubai (Bobby Krishna). Successful DIFSC in November 2017. S. Enteritidis, two outbreaks, using genetic fingerprinting to define the outbreak. Working on digital information on all food business including providing tools to food safety businesses. UAE Food Security Ministry has been formed. Ban on import of fruit from India due to concerns about Nipah virus. DIFSC 2018 will be held 29–31 October.
8. AOAC International (DeAnn Benesh). Focus on harmonization of methods globally, originally part of FDA. Geographical AOAC sections and meetings are becoming more important – opportunities to discuss issues and identify need for methods. Tripartite group with ISO and IDF. Working with Indian and Chinese institutions.
9. Wageningen University (Marcel Zwietering). Growing student numbers, becoming more international and also digitalizing their offering. Distance learning modules offered in English. Used in Wageningen and as part of private/public collaborations. Public resources include, Food Safety and other MOOCs. Supporting ICMSF to produce videos.
10. FSIS (Janell Kause) continuing to modernize and seek to do a better job. Information systems support inspectors. Poultry inspection is changing based on microbiological risk assessment. Swine slaughter is changing based on risk assessment. Egg products are coming under HACCP requirements. Three labs are conducting WGS for pathogens and data being uploaded to a public database.
11. Industry (Pamela Wilger). International differences in regulation cause enormous problems. Industry needs more trained applied microbiologists. Methods need to be validated for all sample types being tested. Industry needs to share more with each other, including validation of control measures/processes, etc.
12. Food Safety Institute, University of Florida (Arie Havelaar). Gates Foundation has become interested in foodborne disease. Foodborne disease has significant long-term health and economic impacts. Food safety and livestock systems – increasing the safe consumption of animal protein.
13. Brazil (Maria Teresa Destro). Introduced Latin America IAFP meeting later this year in Buenos Aires.
14. Center for Food Safety, University of Georgia (Francesco Diez-Gonzales). Working on many research projects, particularly *Salmonella* serotyping and WGS. Increasing international activities. Next Annual Meeting in March 2019.
15. ComBase (Mark Tamplin): invitation to visit booth #208 in the Exhibition Hall.

Leon noted that members should send interesting news items to Jeff Farber for inclusion in the *IAFP Report*.

Outcomes of member survey

- Ian Jenson presented the results of the member survey held in June 2018.
 1. About 60 members responded out of 250 on the roster, including a number who were not able to attend the PDG meeting each year.
 2. About 45% of respondents preferred to maintain the PDG meeting on Saturday afternoon. Attendees spoke to the value of this PDG not overlapping with other PDGs. Leon suggested it would be an opportunity to ask the IAFP Board for more time as this year's PDG Agenda was so packed.
 3. A number of responses were made to requests for suggestions for symposia and other PDG activities that were discussed later in the meeting.

IAFP 2019 Symposia

- Preparing submissions to the Program Committee for IAFP's 2019 Annual meeting in Louisville, KY (21–24 July 2019) were discussed after highlighting what formats (Symposia, Roundtables, Technical Sessions, workshops) were available. Ideally, proposals were on topics new and timely for IAFP and supported by multiple PDGs.

Leon and Ian to start networking with other PDGs on Tuesday (breakfast of PDG leads). IAFP's deadline for full online submissions is 2 October 2018.

- There was discussion of what topics not accepted from last year and suggestions from membership survey could be taken forward as well as what new ideas were possible.
- The following proposals were suggested.
 1. Progress in Food Safety Education and Training Internationally – learnings from tailored small group offerings to running massive open online courses (Marcel Zwietering; Leon Gorris; with WHO, e.g., Françoise Fontennaz); could also be a webinar topic/theme.
 2. Impact of Robotics and Artificial Intelligence on food safety (Peter Ben-Emberek, Ian Jenson, Leon Gorris).
 3. Impact of International changes in meat inspection practices (Ian Jenson), also proposed by PMMRA PDG.
 4. Dealing with food safety related to health and nutrition improvements in low- and middle-income countries around the world (Arie Havelaar).
 5. International allergen labelling issues and impact on food safety (Kevin Edwards).
 6. International food safety during trade wars (Bob Buchanan).
 7. Move back from risk-based to hazard-based food safety decision making (Roger Cook; Pam Wilger; Leon Gorris).
 8. New approaches and learnings regarding incident root cause analysis (Ewen Todd).
 9. International perspective on effective small-scale food safety programs for small-scale producers (Kevin Edwards; Deepa Thiagarajan).
 10. How can we best use geographical insights the new tools give us in distribution of pathogen clones (Peter Ben-Emberek).
 11. International learnings communicating uncertainty in risk assessments to managers in government and industry (Mariem Ellouze; Leon Gorris), also proposed by PMMRA PDG.
 12. Food safety in extreme environments (Linda Leake) (added after meeting).
 13. International experiences and best practices communicating Risks and fighting Pseudoscience (Ian Jenson, Leon Gorris) (added after meeting).
 14. Attendees were encouraged to work within the PDG and across PDG with others to join and develop the proposal idea.
 15. Proposers were requested to inform Leon and Ian of their proposal (lead contact; other proposers; title; 2–3 line description; format; other relevant PDG) by Monday afternoon.

Inter Annual Meeting PDG activities

- The suggestions coming from the PDG survey were presented.
- Leon noted that there seemed to be a particular demand for webinars and noted the IAFP expectations for webinar registration fees in the absence of sponsorship, even for PDG members.
- Leon suggested a webinar on presenting new resources and approaches in food safety e-learning, which also would be of interest from the perspective of the Food Safety Committee of IUFOST that he leads. That Committee is interested to encourage the sharing of effective and quality resources. Further suggestions were left for discussion at another time.
- Ian noted that he would like the PDG to become more interactive between meetings, within the constraints of an international membership and time zones.

Any Other Business

- The need for the election of a new Vice Chair before the next Annual Meeting was discussed. The new Vice Chair will assume their position at the PDG meeting next year (20 July 2019), for a two year term, followed by two years as Chair. Leon requested members to consider (self-) nominating at the meeting or before October when an online poll would be held for the registered PDG members.
- Leon reminded members that they can directly update their PDG affiliations online. All they need to do is log into the IAFP Website; click Edit Profile on the Member Dashboard, then the Professional Info tab. Select the PDG to join.

Recommendations to the Executive Board:

1. In view of the high attendance at the International Food Protection Issues PDG and the enthusiastic contributions of members, the PDG requests that the time allowed for the meeting be extended to 2–5 p.m. on the Saturday preceding the Annual Meeting.

Next meeting date: 20 July, 2019, Louisville, KY.

Meeting Adjourned: 5:00 p.m.

Chairperson: Leon Gorris.

Low Water Activity Foods PDG

Attendees: Gary Acuff, Jennifer Acuff, Nurul Ahmad, Abimbola Allison, Pablo Alvarez, Vidya Ananth, Ted Andrew, Thomas Bell, Larry Beuchat, Yige Bima, Ernest Bonah, Nancy Bontempo, Sara Bover-Cid, Byron Brehm-Stecher, Marlita Burford, Cheryl Burn, Cigdem Caban, Melvin Carter, Long Chen, Larry Cohen, Angel Conde, Frederick Cook, Sally Crowley, Ashley Cunningham, Corinna Darelus, Kelly Dawson, Nathan Decker, Nitin Dhowlaghar, Claudia Diaz, Lise Duran, Teri Ehlinger, Laura Ewing, Jeffrey Farber, Fereidoun Forghani, Aliyar Fouladkhah, Balasubramanian Ganesan, Zhujun Gao, Francisco Garces Vega, Bina Gautam, Joseph Glenn, Elizabeth Grasso-Kelley, Julie Haendiges, Gina Hall, Marion Harness, Ian Hildebrandt, Sanja Ilic, Keith Ito, Andrew Jacobson, Karen Jarvis, Qing Jin, Billie Johnson, Rhoma Johnson, Kent Juliot, Hidehito Kai, Zeina Kassaify, Sue Keller, Karim Khinouche, Ahyon Kim, Jeffrey Kornacki, Shigenobu Koseki, Shira Kramer, Charlee Kuba, Young Seok Kweon, William Lachowsky, Soon Kiat Lau, Jeong-Eun Lee, Susan Leslie, Shihan Lin, Xuanjing Liu, Lisa Lucore, Vivian Ly, Michele Manuzon, Bradley Marks, Bismarck Martinez, Molly Mills, Nathan Mirdamadi, Benjamin Morrow, Nadia Narine, Nicolas Nguyen Van Long, Taylor Oberg, Wilfredo Ocasio, Mary O'Meara, Alma Perez-Mendez, Ruth Petran, Laurie Post, Florence Postollec, Kally Probasco, Hang Qi, David Rasmussen, Frank Ridgley, Juliany Rivera Calo, Jena Roberts, Evan Rosen, Kurt Rueber, Michele Sayles, Shima Shayanfar, Arlette Shazer, Larry Steenson, Philip Steinbrunner, Robert Strong, Jeyamkondan Subbiah, Quincy Suehr, Rico Suhaim, Joni Sweet, Ben Tall, Aparna Tatavarthy, Abdullatif Tay, Brad Taylor, Harshavardhan Thippareddi, Leslie Thompson-Strehlow, Jennifer Todd-Searle, Brian Umberson, Tushar Verma, Danielle Voss, David Watson, Hechen Wei, Xinyao Wei, Michael Wendorf, Pamela Wilger, Edith Wilkin, Anett Winkler, Doug Wolber, Tamara Wood, Shuang Wu, Xiaorong Wu, Zhihan Xian, Jing Xie, Xinmiao Xu, Kris Young, Jiaojie Zheng, and Marcel Zwietering.

Number of Attendees: 131.

Meeting Called to Order: 2:00 p.m., July 8, 2018.

Minutes Recording Secretary: Larry Steenson and Pablo Alvarez.

Old Business: 2017 minutes were presented and accepted. Reviewed the PDG's submissions for the 2017 program and the ones that were accepted for this Annual Meeting.

New Business: The agenda was presented and accepted.

Ruth Petran presented the Board update. Numbers at last year's meeting were up. Submissions of symposia and round tables were also up, with finite spaces. Ruth encouraged us to reposition what has not been accepted, as well as resubmit. The IAFP Report email only has a 27% viewership across the organization. Encouraged to open the email and read when it is received.

Students in attendance (18) were recognized, and each one introduced themselves and gave a brief overview of their research. A brief discussion on the importance of our Student Liaisons and how best to utilize them ensued. It was emphasized that these are meant to be Liaisons to other PDGs. Students should also be encouraged to be resources for each other. A list of students and their research interests will be compiled by Soon Kiat Lau and distributed.

Webinars were discussed. These should be encouraged. Our Student Liaisons will help set these up and schedule them.

Ideas for symposium topics were solicited from the membership, and four broad topic areas were identified for a parallel ideation session, which consumed the remaining meeting time. These were:

- Validation
- Sanitation
- Chemical contaminants
- Changing states – critical changes in a_w levels

Four stations were set up and PDG members were encouraged to post their ideas at each. After the ideation session, volunteers presented the ideas from each area to the group, and groups were formed to further develop the symposia/roundtables. Below is a summary of the efforts:

- Validation, three potential areas were identified:
 1. Surrogates and how to handle.
 2. Methods/matrices/recovery.
 3. Process validation/scale up.
 - i. Volunteers: Jena Roberts, Juliany Rivera Calo, Yige Bima, and Soon Kiat Lau.
- Chemical contaminants, two potential areas:
 1. Overview on important contaminants.
 2. Detection.
 - i. Volunteers: Kent Juliot and Edith Wilkin.
- Sanitation, three potential areas:
 1. Roundtable: what is a clean break?
 2. Dangers of sanitation in a dry environment.
 3. Detection, validation after sanitation.
 - i. Volunteers: Gary Acuff, Karim-Frank Khinouche, Susanne Keller, Elizabeth Grasso-Kelley, and Aparna Tatavarthy.
- Changing States:
 1. Changing states and how they affect product and microorganisms. Kill steps, break points, osmolarity effects, etc.
 - i. Volunteers: Laurie Post, Ashley Cunningham, Abdullatif Tay.

Volunteers will work together to develop appropriate symposia and round tables and will be responsible for submission. 2018 symposium/roundtable suggestions and idea forms are on the association website at the following link, <https://goo.gl/forms/2GfSIQRV6gykjAwr2>. Submissions must be made in electronic form and required fields are:

- Sponsoring PDG
- Name of the submitter
- Email contact
- Telephone contact
- Proposed session title
- Description
- Keywords
- Session type
- Other collaborating PDGs

Deadline for symposia, roundtables and workshops is October 2, 2018. Deadline for Technical and Poster abstracts is January 15, 2019.

Recommendations to the Executive Board:

1. Pablo Alvarez and Larry Steenson have been previously elected as Chair and Vice Chair, respectively. We kindly ask the IAFP Board for the acceptance and support of Pablo and Larry for these roles.

Meeting Adjourned: 4:00 p.m.

Next Meeting Date: July 21, 2019, Louisville, KY.

Chairperson: Pablo Alvarez.

Meat and Poultry Safety and Quality PDG

Attendees: Betsy Booren (Chair), Wendy White (Vice Chair), Jealae Jackson (Student Liaison), Ayojesutomi Abiodun-Solanke, Abdulaziz Alzimami, Peiman Aminabadi, Keith Amoroso, Lucia Anelich, Ashley Arnold, Ilan Arvelo-Yagua, Hussam Azzam Mohammed, Ariel Babilonia, Daniel Bair, Christina Barnes, Pierre Olivier Beal, Wendy Bedale, Karen Beers, Sylvia Bergman, Mark Berrang, Roy Biggs, Preetha Biswas, Alex Brandt, Dennis Burson, Marion Castle, William Chaney, Jennifer Chase, Byron Chaves, Carrie Clark, Roger Cook, Carl Custer, Thomas Danisavich, Ken Davenport, Maria Teresa Destro, Erin Dreyling, Brian Eblen, Denise Eblen, Emilio Esteban, Betty Yaohua Feng, Brittany Fink, Wade Fluckey, Gary Gamble, Balasubramanian Ganesan, Jingwen Gao, Veneranda Gapud, Laura Garner, Nelson Gaydos, Gary Gensler, Ifigenia

Geornaras, Kathleen Glass, Valerie Gonzalez, Leena Griffith, Nancy Gushing, Miguel Gutierrez, Jesus Guzman, Susan Hammons, Margaret Hardin, David Harris, Evan Henke, Craig Henry, Monica Hoffmann, Clint Holsomback, Joseph Holt, Hsienheng Huang, Licheng Huang, Aaron Huckabee, Jeffrey Hutchison, John Jarosh, Ian Jenson, Lone Jespersen, Alex Josowitz, Bernice Karlton-Senaye, Jasmine Kataria, Janell Kause, Shivaramu Keelara Veerappa, Ahyoon Kim, YeonHo Kim, Larry Kohl, Shira Kramer, Audrey Kreske, Mark Kreul, Geetha Kumar Phillips, Heath Lafevers, Yale Lary, Linda Leake, Craig Ledbetter, Jeong-Eun Lee, Judy Lee, Lacey Lemonakis, Cortney Leone, Eric Line, Cari Lingle, Gita Malik-Dahiya, John Marcy, Eric Martin, Barbara Masters, Kathryn McCullough, Tammy McFate, Lynn McMullen, Maia Metreveli, Michael Michel, Zahra Mohammad, Daniel Monte, Amit Morey, Tetsuya Mori, Sara Munoz, Nandini Natrajan, Estefania Novoa Rama, James O'Donnell, Yemi Ogunrinola, Randall Phebus, Brian Poon, Christophe Quiring, Alejandra Ramirez, Kimberly Rice, Lindsey Ross, Kurt Rueber, Mansour Samadpour, Yasser Sanad, Marc Scantlin, Jason Scheffler, Brooke Schwartz, Nicholas Severt, Tina Shaffer, Nicola Sharman, Katarina Simunovic, Thierry Sofia, Silvia Solano Flores, Karla Solis Salazar, Varalakshmi Sudagar, Harshavardhan Thippareddi, Leslie Thompson-Strehlow, Marcie Van Wart, Nissa Varithevan, Daniel Vega, Danah Vetter, Rhonda Vetzell, Morgan Wallace, Isabel Walls, Kevin Wegman, Frances Widjaja, Patrick Wilson, Shuang Wu, Xianqin Yang, and Peipei Zhang.

Number of Attendees: 144.

Meeting Called to Order: 9:02 a.m., Sunday, July 8, 2018.

Minutes Recording Secretary: Jealae Jackson, Student Liaison.

The meeting was called to order by Betsy Booren (Chair). She introduced herself, Wendy White (PDG Vice Chair), and Jealae Jackson (Student Liaison). She then gave an overview of the Antitrust Guidelines and asked for any changes to the agenda.

Old Business: Roger Cook (IAFP Secretary) gave a brief Board Update on the strength of the organization and highlights for the upcoming meeting. IAFP membership is increasing, push to recognize students, renewed focus on the science, and the updated journal portal has increased downloads.

Denise Eblen, Assistant Administrator for USDA FSIS, gave an FSIS update:

- Strategic Plans focuses on three main goals:
 1. Prevent foodborne illness.
 2. Food modernization across the USA and other countries through technology.
 3. Improve food safety through stakeholder and partner collaboration with a focus on customer service and transparency.
- Recent Accomplishments:
 1. Established *Salmonella* Standards for poultry and released guidance. *Salmonella* isn't an adulterant in raw poultry, but it is an indicator of sanitation and consistent process control.
- Future Initiatives:
 1. Ensure safety of meat and poultry; find more (modernize) protocols to reduce foodborne illness.
 2. Command and Control approach to Egg HACCP.
 3. Modernization of Swine and Beef inspection.
 4. Work on Appendices A & B.
- Q&A:
 1. How will modernized FSIS regulations affect imports? Exporting establishments will need to demonstrate equivalency with FSIS regulations.
 2. How science and science techniques will be modernized? FSIS partnering with industry to find innovative technologies and make sure everyone apart of the decision process. Stakeholder meeting, last month; data collection (STEC), and plant to conduct a risk assessment to see what changes to inspection, expectations are needed.
 3. Recent FSIS MLG changes: moving away from BAX for *Campylobacter* testing and using nDPW for both *Salmonella* and *Campylobacter* testing.
 4. Concerns that other countries will not be able to implement these testing changes. FSIS not specifying the method or tech-

niques; must be validated as fit for purpose to detect the same organisms for that matrix. Make sure data reflect agencies data and validate the appropriate tools to use.

New Business: New Technologies Update:

- Wendy Bedale, University of Wisconsin-Madison, has created a comprehensive antimicrobial table for processed meat. Texas A&M has created a similar table for fresh meat.
- Kathy Glass, University of Wisconsin, working on predictive modeling for different types of *C. bot* in meat.
- Morgan Wallace, Rheonix, new *Listeria* test kit.
- Alex Brandt, FSNS, ComBase offering models in meat vs. broth.

Betsy and Wendy gave short statistics on 2018 session program acceptances, reminders on proposal submission deadlines, announced Program Committee's webinar on proposal tips, and encouraged those new to the proposal process to reach out to her and Betsy for support.

The membership engaged in a collaborative session on potential 2019 session ideas to develop into proposals. Meat and Poultry PDG Topics Ideas for 2019 Session Proposals:

- Symposium – Farm-based controls of *Salmonella* and *Campylobacter*
- Symposium – Developing different protein sources in developing countries
- Symposium – Clean meat (animal cultured products) from food safety standpoint
- Roundtable – Modernization of U.S. meat inspection and international effects
- Symposium – Understanding the serological differences of *Salmonella* strains to develop better antimicrobial strategies
- Symposium – Research to aid in revised FSIS Appendix A & B compliance
- Symposium – Post-mortem carcass inspection modernization. Does the U.S. have some outdated inspection practices for beef/human pathogens that are no longer relevant?
- Roundtable – Serotypes vs virulence factors: which is more important to public health?
- Symposium – Challenges of animals raised without antibiotics
- Workshop – How to educate consumers with science-based information. Media training and effective communication
- Symposium – Potential alternatives to culture conformations and refine techniques/methods (enrichments steps, different inhibitors, etc.) to ensure we're really finding pathogens
- Symposium – Processing aids that focus on raw meat, regulatory aspects, approval process to get industry input, novel processing aids, development of resistance to processing aids
- Symposium – FSIS Policy Updates

Recommendations to the Executive Board: None.

Next Meeting Date: July 21, 2019, Louisville, KY.

Meeting Adjourned: 10:31 a.m.

Chairperson: Betsy Booren.

Microbial Modelling and Risk Analysis PDG

Attendees: Marcel Zwietering (Outgoing Chair), Bala Kottapalli (Chair), Jennifer Acuff, George Afari, Seun Agbaje, Nurul Ahmad, Peiman Aminabadi, Angela Anandappa, Dan Anderson, Maren Anderson, Ashley Arnold, Richard Arsenault, Thomas Bailey, S. Balamurugan, Brita Ball, Cameron Bardsley, David Basler, Michael Batz, Mark Beaumont, Sylvia Bergman, Arpan Bhagat, Yige Bima, Zeb Blanton, Neil Bogart, Ernest Bonah, Sara Bover-Cid, Robert Brackett, Fred Breidt, Laurel Burke, Ronald Burke, Cheryl Burn, Joyce Cao, Loan Cao, Laurenda Carter, Wei-Hsiang Chang, Ben Chapman, Jennifer Chase, Hsiu-Ling Chen, Judy Chen, Yuhuan Chen, Larry Cohen, Stephanie Colorado, Frederick Cook, Maria Crespo, Sally Crowley, Carl Custer, Tracey David, Kelly Dawson, Heidi Den Besten, Joan Donelan-Weber, Christophe Dufour, Martin Duplessis, Mariem Ellouze, Bertrand Emond, Tom England, Peyman Fatemi, Shelley Feist, Betty Yaohua Feng, Matthew Fenske, Tracy Fink, Lois Fleck, Wade Fluckey, Michele Fontanot Borasino, Elise Forward, Neal Fredrickson, Gina Frontino, Robert Fuller, Balasubramanian Ganesan, Zhujun Gao, Bina Gautam, Joseph Glenn, Angelica Godinez Oviedo, Virendra Gohil, Chase Golden, Gustavo Gonzalez Gonzalez, Peggy Good, Leon Gorris, Robert Gravani, Leena Griffith, Stephen Grove, Anyi

Gutierrez, Jesus Guzman, Hillary Hagan, Arie Havelaar, Erin Headley, Jim Heemstra, Ian Hildebrandt, Dylan Hinrichs, Leslie Hintz, Joseph Holt, Jason Horn, Dave Horowitz, Taryn Horr, Emily Hovis, Kirsten Howe, Lihan Huang, Oluwatosin Ijabadeniyi, Renata Ivanek, Megan Jensen, Lone Jespersen, Stephanie Jimenez Ramos, Qing Jin, Jennifer Jolly, Kent Juliot, Vijay Juneja, Jiin Jung, Hidehito Kai, Janell Kause, Megan Kenjora, Ahyoon Kim, Kathy Knutson, Robert Koeritzer, Shigenobu Koseki, Barbara Kowalczyk, Audrey Kreske, Bobby Krishna, Kunihiko Kubota, Julie Kuruc, Young Seok Kweon, Ching-Chang Lee, Jeong-Eun Lee, Susan Leslie, Katrina Levine, Vickie Lewandowski, Larry Lichter, Marie Limoges, Yuqian Lou, Lisa Lucore, Stephanie Maggio, Gita Malik-Dahiya, John Marcy, Bradley Marks, Conor McGauran, Deborah McIntyre, Maia Metreveli, Joseph Meyer, Zahra Mohammad, Laura Nelson, Melanie Neumann, Nicolas Nguyen Van Long, Philip O'Connor, James O'Donnell, Teresa Olson, Omar Oyarzabal, Laura Patterson, Brian Perry, Ruth Petran, Randall Phebus, Steven Phillips, Stacey Popham, Gale Prince, Kally Probasco, Hang Qi, Mohsen Ranjbaran, Jeffrey Read, Kimberly Rice, Tanya Roberts, Catherine Rolfe, Joanne Ruebl, Tim Rugh, Joyjit Saha, Kristen Saniga, Brittany Saunier, Sara Scharber, Sara Schoen, Dina Scott, Nicola Sharman, Nilay Sheth, Subash Shrestha, Panagiotis Skandamis, Edward Sliwinski, Chris Smith, Philip Steinbrunner, Eric Stevens, Don Stoeckel, Robert Strong, Varalakshmi Sudagar, Rico Suhalim, Joni Sweet, Abdullatif Tay, Fanny Tenenhaus-Aziza, Anna Theil-Gangl, Sheela Thogaru, Ellen Thomas, Jennie Thomas, Sarah Tillis, Corey Troutman, Tomohiko Tsurumaru, Ching-Yu Tu, Edward Verosko, Kirty Wadhawan, Chris Waldrop, Carol Wallace, Isabel Walls, Steve Warshawer, Josephine Wee, Kevin Wegman, Hechen Wei, William Weichelt, Steven White, Richard Whiting, Pamela Wilger, Barbara Wilhelm, Patrick Wilson, Anett Winkler, Zhihan Xian, Jing Xie, Wenqing Xu, Hongshun Yang, Xianqin Yang, May Yeow, Yohan Yoon, Peipei Zhang, Kang Zhou, Kristen Ziegler, and Wen Zou.

Number of Attendees: 214.

Meeting Called to Order: 9:00 a.m., Sunday, July 8, 2018.

Minutes Recording Secretary: Panos Skandamis and Marcel Zwietering (with the help of Bala Kottapalli).

- Chair Marcel Zwietering welcomed attendees; he presented the Antitrust Guidelines and partially reviewed the meeting agenda.
- Ruth Petran provided an update to the PDG meeting for the main outcomes of the last Board meeting. The major points were as follows:
 1. There was a 4% increase (3,800) in attendees and 3% in exhibitors (270) this year compared to last Annual Meeting in Tampa.
 2. Only 90 symposia out of 200 proposals were accepted by the Program Committee this year, due to space and time slot constraints. Competition for slots was great. PDGs are encouraged to engage with each other in developing new symposia proposals for 2019. Many quality proposals that were not accepted this year could be redeveloped into webinar submissions.
 3. Membership counts 4,300 Members, with almost 20% of them representing countries outside North America. These include 135 sustaining members, including 24 Gold and 21 Silver.
 4. *Food Protection Trends (FPT)* continues to have steady submissions of articles for *FPT*, with more than 90% of readers being either satisfied or very satisfied with the content of *FPT*, according to recent survey.
 5. *Journal of Food Protection (JFP)*: Manuscript submissions were reduced in the past couple of years but the total number of article pages printed remained steady. Based on a 2015 study, efforts are being made to make *JFP* more discoverable in searches, thus leading to higher citations, improving the use of *JFP* articles and increasing the Impact Factor.
 6. PDGs have been encouraged to consider activities to recognize student achievements. PDGs are encouraged to coordinate with the Student PDG regarding assignment of Student Liaisons for each PDG. PDG members were encouraged to support student activities (\$5,000 collected so far) by purchasing the 2018 student shirt at the Student booth in the exhibition hall.
 7. *IAFP Report* is sent monthly to all members. Members are encouraged to open and review the Report for recent information related to food protection activities worldwide.

8. The 14th European Symposium on Food Safety was held in April this year in Stockholm, Sweden, with record setting attendance of more than 370 registrants.
9. Social media can be a valuable tool to enhance PDG activities throughout the year. Executive Board continues the efforts by regularly posting on Facebook, LinkedIn and Twitter.
10. The Foundation continues to have great success in growing its balance with a goal of \$2 million by 2020. This supports among others travelling for 20 students and 3 safety professionals from a Country with a Developing Economy.
11. IAFP continues to have a good financial health.

- The greetings from the Board were followed by self-introductions for all PDG members and visitors.

Old Business:

Adoption of 2017 PDG Minutes: Minutes from the 2016 meeting were tabled for comments or edits. There were no edits. Motion to adopt the minutes by Leon Gorris, seconded by Mariem Ellouze; minutes adopted.

Matters Arising from 2017 PDG meeting:

- Marcel explained the selection process for new Vice Chair. This included multiple nominations from PDG members and elections through a voting process. For this term, all (four) nominations were for Panos Skandamis, so no voting was necessary and Panos was proposed and accepted by the IAFP Board as new Vice Chair.

New Business: The outgoing Chair (Marcel) thanked the former Chairs and the whole PDG:

"I have served this Committee with a lot of pleasure. Organizing symposia, roundtables, webinars, etc. Bringing science, industry and government together for making better food safety decisions. I thank very much the past Chairs Mickey Parish as the first, but also Leon Gorris, Richard Whiting and the last two Chairs, Alejandro Amézquita and Yuhuan Chen. My goal this year was to organize many webinars. Even for that Yuhuan supported me; she organized this year a sequence of three webinars. So, not only as a Chair she put a burden on me to succeed her, but now even as Past Chair! I wish Bala and Panos all the best for the continuation, but the PDG again is in good hands. Thank you also, all members!"

Thank You to past Chair and election of new Vice Chair: Yuhuan thanked Marcel for his leadership and mentioned that during Marcel's term the MMRA PDG had record attendance and participation of members from around the world. Yuhuan also remembered that it was Alejandro who convinced Marcel to accept the nomination 4 years ago. It was not easy since Marcel had a lot of other commitments. Yuhuan thanked Alejandro for the nomination and thanked Marcel for taking on the Vice Chair position. As Chair, Marcel planned PDG meetings, facilitated collaborations with other PDGs, coordinated the development of symposia, webinars, and advocated for our members' proposals. One of the best examples of his accomplishments is the webinar offerings, sponsored and co-sponsored by the MMRA PDG. On Marcel's initiative, and with the very enthusiastic support of the PDG, the number of webinars has more than doubled in the last two years. In her concluding note, Yuhuan cited a quote from the recent webinar series (03-05-18 Webinar Q&As): Dr. Zwietering says it best: "Many models are correct...but they are not perfect" and described it as thoughtful and insightful statement with regards to modeling. As a PDG, we have more work to do. Yuhuan said that it had been a great pleasure working with Marcel, and thanked Marcel for all that he has done for the PDG and for advancing its mission.

Bala followed Yuhuan and thanked Marcel for his contributions to the PDG. To quote Bala *"It has been an honor/privilege working with Marcel this past couple years. Coming to the MMRA PDG, I had very minimum knowledge about the depth of my role. Marcel has been a great mentor and helped increase my understanding of the role of PDG and the impact it can have on the scientific community. Personally, I have learnt a great deal working with Marcel and I would like to thank him for his commitment, knowledge and assistance where needed. It will be difficult to fill Marcel's shoes but I will try to do my best to advance the PDG with all the members support."*

Updates from SRA, MRA Specialty Group and ICPMF Committee: Bala provided the vision statement for SRA since there were no repre-

sentatives from SRA (Special thanks to Dr. Abani Pradhan for providing the slides). He indicated that SRA is a multidisciplinary, interdisciplinary, scholarly, international society that provides an open forum for all those who are interested in risk analysis. SRA has several specialty groups one which is Microbial Risk Analysis Specialty Group (MRASG). The MRSAG focuses on public health risks associated with a variety of biological hazards. Different activities of MRSAG include: (1) Sponsor/organize symposia, technical sessions, posters at SRA Annual Meeting (2) Organize webinars (3) Encourage students- Specialty Group student merit award competition and (4) Facilitate communications and networking (e.g., LinkedIn subgroup). The upcoming 2018 SRA Annual Meeting will be in December 2–6 and held at New Orleans, Louisiana). For more information relating to SRA, please contact the Chairperson Regis Pouillot (rpouillot.work@gmail.com) and Amir Mokhtari (Amir.Mokhtari@fda.hhs.gov).

Mariem Ellouze gave an overview of ICPMF activities. The mission of ICPMF is to catalyze the development of predictive modelling in foods, primarily through advancing the success and sustainability of the bi-annual ICPMF-conferences. ICPMF organized a symposium and a software fair last year in Tampa with a great success. The Committee has created newly a webinar group that can liaise very well with our PDG. ICPMF also collaborated with SRA Webinar working group on the topic "The use of risk assessment and predictive microbiology in the context of food safety alerts and outbreaks." The next conference ICPMF will be in Braganza, Portugal 17–30 September 2019 (Deadline for abstracts submission is 10th March 2019). For the 2023 conference applications are open. More information about ICPMF can be obtained by contacting contact@icpmf.org.

Guest speaker: Bradley P. Marks, PhD, P.E. (Professor, Biosystems Engineering, Michigan State University), Title: *Modeling pathogen inactivation with multiple dynamic variables and external process factors*.

- Initially well-controlled experiments can be used as *iso-iso-iso*, such as small scale-constant conditions experiments. This will result in primary (e.g., log linear, Weibull) and secondary models (Bigelow-type). But in bench scale thermal inactivation conditions are dynamic in time (T , a_w , etc.). In pilot scale experiments, more spatial effects are encountered.
- In dynamic conditions it is difficult to relate back non-linear behavior to their causes. Scaled-sensitivity coefficients can be helpful to test if parameters can be estimated. Confidence interval of the model is often reasonably small but the prediction interval is often very large and unfortunately underreported.
- Inactivation modeling with multiple dynamic variables is possible. Model development approaches can be inherently limited since coupling product and process variables complicates parameter estimation.
- Take home messages: (1) Inactivation modeling with multiple dynamic variables is possible but there are few important considerations (2) Model development approaches can be inherently limited and (3) Coupled product and process variables complicate parameter estimation.

Some of the questions and answers to Bradley:

- Using iso iso iso and then validating under real world condition: Is that approach correct?
 - Yes that works fine. If that is possible of course, but sometimes there are inter-correlated effects that need to be incorporated. So it is not always obvious.
- How did you handle process characteristics: with a transport model, or with a dummy variable?
 - Yes, adding a dummy variable, it did make marginal improvement.
- Confidence and prediction intervals: in challenge tests what should I use?
 - Exactly, there is no set definition. While the 95% confidence intervals describe the distribution of data around the mean, the prediction intervals tries to capture the variability in the individual observations. But what percentile to use is a difficult choice.
- Mainly the prediction interval seems determined by variability in N_0 : in this case log reduction PI will also be informative (Answer: agreed).
- Are there any learnings from modeling of low moisture foods like nuts and tree nuts that can be applicable to other low moisture foods like granola and breadcrumb products?

2. In addition to temperature and time, rate of decrease in moisture content is an important variable that needs to be monitored as part of the validation.

- Could you also use parameters like heat transfer and mass transfer, since they are more generic: (Answer: agreed).

IAFP 2018 accepted proposals for roundtables, special event and symposia (Sponsored by MMRA PDG)

- Updates on the Impact of Sampling Plans on Microbiology Results (Roundtable, Primary Contact: Preetha Biswas).
- Salmonella* in Poultry: Where Do We Go from Here? (Roundtable, Primary Contact: Juliana Ruzante).
- Biological Variability in Thermal Processing: Impact for Process Control and Validation – What You Need to Know about Microbiological Variability for Food Quality and Safety Control (Symposium, Primary Contact: Marcel Zwietering).
- Building a Strategic Alliance for Sustainable Food Safety Risk Analysis Capacity Building in the Americas (Symposium, Primary Contact: Marcos X. Sanchez-Plata).
- The Meaning of Clean – Fit for Purpose Water for Field, Factory and Food Preparation (Symposium, Primary Contact: Leon Gorris).
- International Experiences with Systems for Hazard Monitoring and Rapid Risk Assessment (Symposium, Primary Contact: Leon Gorris).
- Complex Risk Assessment and Classic Hazard Analysis on a Spectrum – Do We Really Need Both/Can We Really Do Both? (Special Event, Primary Contact: Yuhuan Chen).
- Risk Assessment of Listeriosis: Latest Developments for Food Safety Risk Management (Symposium, primary Contact: Yuhuan Chen).
- Antimicrobial Resistance: Current Knowledge and Steps Toward Understanding the Relative Role of Food and Other Resistance Sources (Roundtable, Primary Contact: Solenne Costard).

Roundtables, Symposia, Workshops, Debate and Webinars – Ideas for 2019:

Proposal submission due on October the 2nd, 2018

- Re-cap symposia and workshops in 2017 proposed by members/ sponsored by MMRA PDG.
 - 18 submitted proposals, people do mention our sponsorships without contacting. This should not be done. If you want to get support be timely with your request the latest 48 h before closing.
- Thoughts from 2018 Proposal leaders/Webinar Organizers.
 - RT on HA and QRA: connect more with small and medium size companies: what needs they have: incorporate more of the practical aspects and SME.
 - Predictive micro was co-sponsored by meat and poultry PDG, we did bring in practical aspects.
- Discussion on ideas for 2018: considering cutting-edge information not previously presented; international perspectives on various issues (Formats: roundtables, technical symposia, pre-meeting interactive workshops).
 - Interactive sessions: for example the software fair was very helpful, attendees could bring their problem and get support (really have a case study worked out in a webinar like *Combase*).
 - Ecology of detection of *Campylobacter*, including modelling, physiology, and validation aspects.
 - Desiccation effect with improper humidity control when is it a real factor: It is addressed in the low a_w PDG and with a roundtable this year (Could be done in conjunction with low a_w PDG).
 - Modelling the effect of chronic diseases, a proposal around chronic health effects associated with pathogens and chemical hazards (tox), and how advanced tools such as WGS and organs-on-chips can advance our understanding and assessment of these chronic effects and perhaps dose-response relationship.
 - Relevance of asymptomatic infections to be included in QMRA, (consider host-immunity).
 - The need for sampling more and better and along the food chain as a joint effort: we all need it, so a joint effort is needed.
 - Software fair on real case studies and 2) modelling and regulatory compliance.

- Workshop on FDA-iRISK 4.0. Workshops could be organized for example on Friday before the meeting, but also many expressed concerns that for many interested people (both U.S. and international) the meeting would become too long. It could also be done in a technical session type meeting if the Program Committee would allow.

Proposal leads can contact other PDGs, and send in before October 2nd (and to the PDG before end of September if sponsoring is desired).

Webinars and other communications

- Potential webinar topics 2019–2020 / Volunteers.
- Development of booklets, drafting of white papers, other ideas.
- Continue with examples of PM: Vickie Lewandowski and Larry Cohen are willing to give support.
- Proposal for a joint ILSI-Europe / IAFP virus webinar, co-organized with the virus PDG (with Alvin Lee).

IAFP 2018 and other meetings of interest

IAFP 2018 selected symposia and technical sessions of note.

Other upcoming meetings/events of interest

- 26th International ICFMH Conference – FoodMicro 2018: Berlin September 3–6.
- 11th International Conference of Predictive Modelling in Food (ICPMF11) September 17–20, 2019 Bragança (Portugal).
- 14th European IAFP symposium in Nantes, France, 24–26 April 2019.

Encouraging students: we could try to find methods to do so. For example use the PDG to evaluate the abstracts and then let them pitch their paper/poster at the PDG meeting and give certificate. The Chair and Vice Chair of the PDG ask the members to express their interest to serve as judges (or nominate other members) for evaluating student abstracts that will receive certificate of presentation in the PDG committee. We have to find out with IAFP how to coordinate this (see also updates from Executive Board above for further ideas).

Recommendations to the Executive Board:

- Recommend Panos N. Skandamis as Vice Chair of the Microbial Modelling and Risk Analysis PDG.
- Recommend the Board to approve the Microbial Modelling and Risk Analysis PDG to provide certificate for those student abstracts (to be presented as posters/technical presentations in the forthcoming IAFP meeting) that will be qualified by the judgment panel of the PDG for being presented at the PDG.

Next Meeting Date: July 21–25, 2019 Louisville, KY.

Meeting Adjourned: 10:49 a.m.

Chairperson: Bala Kottapalli.

Pre Harvest Food Safety PDG

Attendees: Bassam Annous (Outgoing Chair), Peyman Fatemi (Vice Chair), Savana Everhart (Student Liaison), Ayojesutomi Abiodun-Solanke, Jamie Allen-Hitt, Richard Arseneault, Kannan Balan, David Basinger, Manreet Bhullar, Tamla Blunt, Marisa Bunning, Laurel Burall, Kellie Burris, Loan Cao, William Chaney, Shannon Coleman, Michael Cooley, Sarah Correll, Carl Custer, Charles Czuprynski, Joseph Darden, Hongjian Ding, Lindsey Doring, Lise Duran, Mike Dziewatkoski, Erika Estrada, Balasubramanian Ganesan, Samantha Gartley, Leah Gilman, Joshua Gurtler, Jesus Guzman, David Harris, Jim Heemstra, Jason Horn, Ingrid Huntley, Jeffrey Hutchison, Keith Ito, Jealae Jackson, Janelle Jones, Rick Kanaby, Diana Kassir, Shivaramu Keelara Veerappa, Ahyoon Kim, Samuel Kiprotich, Shira Kramer, Yale Lary, Jeong-Eun Lee, Jeffrey LeJeune, Eric Line, Pushpinder Kaur Litt, Xingchen Liu, Daiza Mendez-Perez, Amanda Manolis, Claire Marik, Justin McConaghy, Sherri McGarry, Jessica Meisinger, Lowell Midla, Zahra Mohammad, Amber Nair, Donna Pahl, Jitu Patel, Yamila Perales De La Rosa, Hannah Pilch, Alda Pires, Phyllis Posy, Mohsen Ranjbaran, Don Ritter, Mika Roberts, Robert Sakata, Yasser Sanad, Anna Scrimenti, Caroline Smith DeWaal, Sultana Solaiman, Karla Solis Salazar, Lindsay Springer, Frederick Stokes, Varalakshmi Sudagar, Siddhartha Thakur, Emalie Thomas-Popo, Nissa Varithevan, Gretchen Wall, Catherine Wong, Alex Zeman, Guodong Zhang, Claudio Zweifel, Adam Alberson, Raghavendra Amachawadi, Sanjay Kumar, Nicole Vaughn, Kali Kniel, Jeffrey Chandler, Aiyar Fouladhah, and Jianfa Bai.

Number of Attendees: 94.

Meeting Called to Order: 9:02 a.m., Sunday, July 8, 2018 by Bassam Annous.

Minutes Recording Secretary: Savana Everhart, Student Liaison.

Welcome and introductions:

- Bassam opened the meeting and welcomed the PDG attendees to the meeting. He thanked them for their participation and reminded them of the objectives and purpose of the meeting.
- Bassam reminded attendees that he was chairing the PDG meeting on behalf of Dr. Walid Alali, the Incoming Chair.
- Bassam introduced the incoming Vice Chair, Peyman Fatemi, and Student Liaison, Savana Everhart.
- Bassam read over the Association Antitrust Guidelines.

IAFP Board Report (Kali Kniel):

- Discussed that the pre-registration totals were higher this year than they were last year, with around 3,800 people expected to attend.
- There was an increase in exhibitors.
- 200 different proposals, 90 were expected.
- Encouraged the PDG to think of different alternatives to symposia and roundtables, such as webinars, journal articles, etc.
- IAFP has 4,300 members, 20% of those are outside of North America don't forget about the IAFP report on the 1st Thursday of every month.

Old Business:

- Bassam noted that six symposia and one roundtable were sponsored and/or cosponsored by the Pre Harvest PDG were accepted for the 2018 Annual Meeting.
- For future years, we should work on more proposals.
- The submission deadline is October 2, 2018.
- Chair noted that last year's business minutes were accepted by IAFP.
- Motion to accept minutes by Bassam Annous and 2nd by Jeffrey.
 - Passed with no oppositions.
- Chair noted the following concerning emails:
 - People should send emails as blind copies to protect people's identities.
 - Only reply to the sender instead of replying to all.
 - People need to double check that their work servers are not bouncing emails back.
- We could host webinars with a \$25 registration fee, or we could find a sponsor for webinars.

New Business:

Bassam introduced Dr. Lowell Midla from Merck Animal Health who presented a webinar entitled "The Potential Impacts of Antibiotic Use Reduction in Food Animals on Food Safety" (20 minute presentation).

Bassam reminded attendees that the deadline for submitting proposals for symposia and roundtable discussion is October 2, 2018, for the 2019 Annual Meeting in Louisville, KY. Bassam then opened the discussion on symposia/RT topics:

- Prevalence of *Enterobacteriaceae* spp. and their relation to pathogens as related to produce.
 - What are indicators?
 - How does that relate to incidence rate?
 - Peyman Fatemi (peyman.fatemi@achesongroup.com).
- A follow-up on the discussion by Dr. Midla on the correlation between liver abscesses in beef cattle and the isolation of foodborne pathogens, as they relate to illnesses and outbreaks.
 - Will eliminating antibiotics lead to an increase in illness?
 - Potentially have someone speak from a U.S. perspective and an international perspective.
- Need for more information on low and middle income countries as related to pre harvest food safety.

- Buffer zones and contamination.
 1. New research?
 2. Amber Nair with FDA (amber.nair@fda.hhs.gov).
- Non-traditional growth media and food-contact surfaces.
 1. Ex. hydroponics/aquaponics.
 2. New developments and the potential contamination and its prevention.
 3. Amber Nair with FDA (amber.nair@fda.hhs.gov).
- Global Food Safety Initiative – pre-harvest requirements.
- Work with PEW, who are working to define antibiotic stewardship. What does antibiotic stewardship mean?
 1. Dr. Karen Hoelzer (khoelzer@pewtrusts.org).
 2. AMR leader at PEW: Kathy Talkington (ktalkington@pewtrusts.org).
 3. Recommended by G. Donald Ritter of Mountaire Farms Inc. (dritter@mountaire.com).
- Domestic and wild animals roaming through fields and potentially contaminating the food supply.
- Utilization and application of analytical methods in pre-harvest environment (animal and/or produce).
 1. Fit for purpose use – its definition, etc.
 2. Proper validation (i.e., sampling plans, number of samples).
 3. Challenges.
 4. W. Evan Chaney with Diamond V (echaney@diamonddv.com).
- Non-antibiotic feed ingredients.
 1. W. Evan Chaney with Diamond V (echaney@diamonddv.com).
- Antibiotic resistance as related to plant agriculture.
 1. Ex. Streptomycin resistance.
 2. Kellie Burris at NC State (kpburris@ncsu.edu).
- Antibiotic stewardship and consumer, perception and policy.
 1. Ex. San Francisco and their meat labeling guidelines.
 2. Roundtable.
 3. Alda Pires, DVM at UC-Davis.
 4. Antibiotic stewardship with faculty and extension?

Recommendations to the Executive Board:

1. Approval of Dr. Peyman Fatemi for the Vice Chair of the PDG.

Meeting Adjourned: 10:21 a.m.

Chairperson: Bassam Annous.

Retail and Foodservice PDG

Attendees: Thomas Ford (Chair), Francie Buck, Gina (Nicholson) Kramer, Moe Adams, Sultan Al Taher, Bryan Ames, Michael Ames, Abdur Amin, Jeff Anderson, Christine Andrews, Hussam Azzam Mohammed, Christopher Baker, Atallah Baroudi, Thomas Bell, Betsy Booren, Chris Boyles, Veronica Bryant, Janet Buffer, Vanessa Bussiere, Hunter Capps, LeAnn Chuboff, Carrie Clark, Jeffrey Clark, Carl Custer, Holly Dance, Arne Duebecke, Minh Duong, Ashley Eisenbeiser, Brittany Fink, Robin Forgey, Connie Freese, Balasubramanian Ganesan, Veneranda Gapud, Donna Garren, Amanda Gilchrist, Julian Graham, Leena Griffith, Steve Hails, Laurie Hale, Susan Hammons, Margaret Hardin, Cory Hedman, Peter Hibbard, Joel Hollender, Kenta Homma, Kris Ingmundson, Lee-Ann Jaykus, Marjorie Jones, Chris Jordan, Vijay Juneja, Hidehito Kai, Sue Kaminski, Ahyoon Kim, Kalmia Kniel, Robert Kramer, Caitlynn Kreis, William Lachowsky, Yale Lary, Jeong-Eun Lee, Xia Xi Dawn Li, Jeffrey Lindholm, Shannara Lynn, Manu Manohar, Chip Manuel, James Marks, Eric Martin, Susan McKnight, Maia McNair, Ann Marie McNamara, Theresa Meves, Ashley Miller, Eric Moore, Eric Moorman, Tetsuya Mori, John Mwangi, Jack Neal, Katia Noll, James O'Donnell, Dan Okenu, Haley Oliver, Franck Pandiani, Efi Papafragkou, Charles Pettigrew, Brian Ramsaur, Lalaina Randriamanantsoa, David Reyda, Michael Roberson, Julie Roquemore, Christopher Rupert, JoAnn Sagara, Mansour Samadpour, Mandy Sedlak, Nicholas Severt, Natalie Seymour, William Shaw, Marianne Solomotis, David Soper, Anna Starobin, Stephen Tracey, Nissa Varithevan, Dan Vassar, Daniel Vega, Robert Wagner, Benjamin Waring, Jim Wilson, and Ian Young.

Number of Attendees: 106.

Meeting Called to Order: 1:00 p.m., Sunday, July 8, 2018.

Minutes Recording Secretary: Francie Buck.

Old Business: Jay Neal, Outgoing Chair, passes the baton to Thomas Ford as the incoming Chair. Eric Moore, incoming Vice Chair, and Minh Duong, Student Liaison, introduced themselves.

- Increase collaboration with the Student PDG.
- Student PDG needs to branch out.
- Webinar or workshop for professional skills for students (soft skills).
- Renee Boyer – Virginia Tech.

A motion to accept the 2017 Minutes was made and seconded by Donna Garren and Michael Roberson. The sessions that were accepted/ sponsored by the Retail PDG were reviewed and Kali Kniel gave the IAFF Board update.

New Business:

NoroCORE presentation from Dr. Lee-Ann Jaykus.

LeAnn Chuboff has a \$3000 scholarship, applications are due Sept 15th. FMI Foundation.

Symposia and Roundtable Ideas:

- Universal Food Code Adoption.
- Training for Sanitation/Hygiene.
- Paid Sick Leave.
- Block Chain approach to Recalls.
- Dealing with Food Trucks + the Health Department.
- Food Delivery Services (e.g., Uber Eats).
- Active Managerial Control.
- Produce at Retail (On-site growing, preparation).
- Next Generation Sequencing (NGS).

Recommendations to the Executive Board:

1. Approve Eric Moore for Vice Chair of this PDG.

Next Meeting Date: July 21–24, 2019, Louisville, KY.

Meeting Adjourned: 2:35 p.m.

Chairperson: Thomas Ford.

Sanitary Equipment and Facility Design PDG

Attendees: John Merenick (Chair), Dimitri Tavernarakis (Vice Chair), Lang Sun (Student Liaison), Ayojesutomi Abiodun-Solanke, Samir Assar, Thomas Bell, April Bishop, Stine Bislev, Rachael Blevins, David Blomquist, Craig Bolt, Richard Brouillette, Marlita Burford, Vanessa Bussiere, Erdogan Ceylan, Casey Chester, Michelle Chester, Willette Crawford, Cecilia (Maria) Crowley, Tracey David, Mark Davis, Joan Donelan-Weber, Alejandro Echeverry, Tom England, Maria Espana, Wade Fluckey, Aliyar Fouladkhan, Robert Fuller, Balasubramanian Ganesan, Peggy Good, Duane Grassmann, Marco Guzman, Hillary Hagan, Margaret Hardin, John Holah, Terry Howell, Tsung Han Hsieh, J. Michael Hudson, Jeffrey Hutchison, Lotte Jensen, Billie Johnson, Amit Kheradia, Ahyoon Kim, Larry Kohl, Lori Kora, Yale Lary, Craig Ledbetter, Jeong-Eun Lee, Kory Longhurst, Lisa Lucore, Spir Marinakis, Tyler Mattson, Rachel McEgan, Nathan Mirdamadi, Steven Murphy, James O'Donnell, Dan Okenu, Mary O'Meara, Donna Pahl, Lalaina Randriamanantsoa, Tim Rugh, Anthony Saitta, Michele Sayles, Steven Sims, Kevin Smith, Sarah Speelman, Anna Starobin, Frederick Stokes, Trevor Suslow, Scott Thacker, Karl Thorson, Greg Vallee, Stephen Walker, Josh Warren, and Kris Young.

Number of Attendees: 75.

Meeting Called to Order: 3:15 p.m., Sunday, July 8, 2018.

Minutes Recording Secretary:

Featured Speaker – Paul Krechel “Hygienic Design of Food Processing Equipment.” Paul introduced bacteria issues in food industry and its influence on public health and food companies’ finances. He mentioned major issues are due to the most known pathogens, which are *E. coli*, *Listeria*, and *Salmonella*. He talked about things that will promote bacteria growth, which are bacteria accumulation on food, stagnant water, and insufficient cleaning time; and things that will inhibit bacteria growth, which are exerting pH pressure, adding competition microorganisms, increasing cleaning time and temperature. Then, he pointed challenges in keeping a sanitary working environment and plants. There three major challenges regarding food processing equipment, firstly, during food processing, there are harborage choke point where food

Seafood Safety and Quality PDG

build up bacteria growth; secondly, equipment are not designed well for easy cleaning, such as harborage point, horizontal surface with water staying for long time, hollow tubing, and improper chemical use; thirdly, it is difficult for good maintenance of the equipment, for example hard to reach components, complex design, and potential risks to personnel safety. Subsequently, he provided solutions to these challenges accordingly with pictures and illustrations of his model equipment. In terms of solution addressing growth of bacteria, equipment could be easily assembled and cleaned, and remove horizontal surface with angle design. He showed us an example of rotating belt that water will fall off while food will still under processing smoothly.

At the end of his speech, he raised two questions: 1) how could food equipment manufacturer further collaborate with industry to meet sanitary expectations? 2) are there sanitary expectations not being met by equipment provider today? The audience and speaker had a discussion over these two questions. Major points are listed as follows:

- Suggested equipment manufactures to provide do's and don'ts for the cleaning of equipment as they might be damaged by misuse of cleaning chemicals.
- Since angle design is a common rule in dairy industry, but not emphasized in produce industry, how could people do to promote these rules to the rest of food industry?
- What could we do with current equipment that was purchased to use for decades, is there a way to retrofit current assets to improve their sanitation.
- Emphasizing on food standpoint may not be enough to justify the cost of sanitary equipment, other perspectives should also be considered.
- Insurance companies are now interesting to learn more to evaluate the risks of this equipment, which may provide another way to address cost benefit.
- Having design team from equipment manufactures visiting food industry and knowing what people are doing may help better designing.
- Packing raw agricultural commodities challenges to sanitation and equipment design.
- Asking for trainings for both auditors as well as food industry. How should food industry react to auditors if auditors think equipment is not hygiene?
- Maybe not making sanitary design an option when companies are purchasing equipment.

Old Business:

Reminder, our PDG co-sponsors the following sessions at this year's IAFP meeting.

- S8. From Cow to Curd: Defining Microbiomes in the Dairy Industry.
- S28. Cleaning Validations – Approaches in Retail Food and Food Manufacturing.
- S56. Maximizing Food Safety and Quality Through Application of Hygienic Design.

New Business:

- Discussed having quarterly online call-in meetings to start the discussion on subjects for next year's PDG meeting. John M. to set up call in.
- Several topics being proposed by the 3A PDG were discussed. Approval from our PDG on co-sponsoring several of the topics discussed.
- Reminder IAFP 2019 symposia, roundtable and workshop proposals is October 2, 2018.
- New symposium ideas for our PDG listed below:
 1. Guarding of Equipment: The battle between employee safety and food safety.
 2. Hygienic design training for auditors in the food industry.
 3. Sanitary requirements for facility design in GFSI: what is covered, what is not as compared with other standards and legal requirements.
 4. Cleaning chemicals compatibility with equipment finishes. Newer chemicals with newer finishes.

Recommendations to the Executive Board:

1. Recommend approval of Dimitri Tavernarkis as Vice Chair.

Next Meeting Date: July 21–24, 2019, Louisville, KY.

Meeting Adjourned: 4:50 p.m.

Chairperson: John Merenick.

Attendees: Forest Reichel (Chair), Foivos Genigiorgis (Vice Chair), Ajibola Oyedeji (Student Liaison), Ayojesutomi Abiodun-Solanke, Preetha Biswas, Kenneth Boyer, David Calvin, Marion Castle, Kow-Ching Chang, Kevin Edwards, Ashley Eisenbeiser, Mario Gadanho, Balasubramanian Ganesan, Constantin Genigeorgis, Gina Hall, Marlee Hayes, Suneer Himathongkham, Toni Hofer, Dave Horowitz, Matthew Igo, Jessica Jones, William (Kyle) Jones, Hidehito Kai, Rick Kanaby, Ahyoon Kim, Larry Kohl, Jeong-Eun Lee, Margaret Malkoski, Joey Marchant, Doug Marshall, Michael Michel, Virginia Ng, Salina Parveen, Andrew Pearson, Robin Peterson, Lori Pivarnik, Christophe Quiring, Gary Richards, Rachel Rodriguez, Brooke Schwartz, Gregory Siragusa, Tori Stivers, Matthew Taylor, Scott Thacker, Rhonda Vetzal, Abigail Villalba, Chris Whitehouse, Jacqueline Woods, Shuang Wu, Zhihui Yang, Alex Zeman, and Joe Zindulis.

Number of Attendees: 52.

Meeting Called to Order: 1:00 p.m., Sunday, July 8, 2018.

Minutes Recording Secretary: Foivos Genigiorgis.

Old Business: A motion was made by Rick Kanaby to approve the 2017 Minutes, seconded by Tori Stivers and passed by majority vote.

New Business: Forest Reichel opened the meeting and provided an overview of the agenda.

Formal introduction of Student Liaison to the Seafood PDG: Ajibola Oyedeji (Durban University of Technology, South Africa). The Chair reviewed the IAFP Antitrust Guidelines.

Overview of the RTE Seafood Manual. Presentation by Seafood PDG Members, Margaret Malkoski, Forest Reichel, Scott Thacker, Virginia Ng, Foivos Genigiorgis. Manual available free of charge at: www.aboutseafood.com/resource

Executive Board Liaison welcoming message by Kali Kneil. Provided a meeting recap (3,800 attendees). Committee suggestions for new idea creations: If not approved one year, reinvent rework and re-submit. Webinars and *Journal of Food Protection* are good tools to utilize if symposia, etc. don't work out.

Nominations and election of incoming Vice Chairperson for 2019. Kevin Edwards and Forest Reichel nominated. Election by written ballot. Kevin Edwards elected as incoming Vice Chairperson pending Board approval.

Topics for next meetings Symposia:

Note: Quick overview of topics was presented to attendees. Post-it note decision boards were available for parallel ideation and input.

- Microplastics in Seafood: Tori Stivers as Lead for a Symposium proposal. Overview on the topic by Tori Stivers. Number of papers from EFSA and FAO were discussed. Considerations: Impact of microplastics on farmed fish, oysters, humans, environment. Food industry is biggest generator of plastics (packaging). Post-it notes from members during parallel ideation:
 - a. Effects on fish /shellfish. Also, how it affects seafood consumers/sources – interventions.
 - b. Emerging and trendy issue: Volunteer to help by Tomi Ayojesutomi Abiodun-Solanke (Federal College of Fisheries and Marine Technology).
 - c. It would be best to focus on hazards rather than simply occurrence. This knowledge gap is really hampering the risk assessment/communication process.
 - d. Review of prevalence of microplastics in oysters.
 - e. Favorite topic. Willing to assist by Dr. David Kingsley (USDA/ARS).
 - f. Do we focus 100% in safety or do we want to cover environmental impact in fisheries? What has been done on environmental impact, what is the gap with safety impact.
 - g. Linkages with International PDG for collaboration by Marian Castle (NZ).
 - h. Prevalent issue, touches the whole food industry. Very important.

- i. Regulatory requirements: No lead. Less than three comments. Topic will not move forward at this time.
- j. Raw seafood consumption Emerging hazards: Jessica Jones as Lead. Overview from previous conference call: Need for further investigation on parasitic or other raw seafood safety issues. Increase observed in Japan. How about the U.S. or in a global scale? Need to approach CDC. Possibility to coordinate with Viral and Parasitic Foodborne Disease PDG. Review webinar possibility. Post-it notes from members during parallel ideation:
 1. Not just emerging hazards. As more products are eaten raw, well known hazards in new products.
 2. Need to make sure to include control methods. Otherwise consumers will only hear about hazards.
 3. Very important internationally and nationally.
 4. Safe seafood handling for retail: No lead. Less than three comments. Topic will not move forward at this time.
- k. Fraud: No Lead. Less than three comments. Topic will not move forward at this time. *Note: After meeting discussion, suggestion on potential collaboration with other PDGs (Advanced Molecular, Fraud, etc.) as subtopic.*
- l. Seaweed safety: Lead TBD. Overview from previous conference call: Lack of guidance in the US. Product route from grower/harvester to retail. Lack of further processing. Possibility to coordinate with Water Safety and Quality PDG. Lively discussion surrounding this topic during the meeting. Many members were interested. Potential collaboration with other PDGs (International, etc.). Seaweed Post-it notes:
 1. Really interested from a regulatory perspective: where does this industry falls.
 2. Microbial and chemical residues in seaweed.
 3. Fukushima accident – maybe some research from Japan – hazards.
 4. International perspective on seaweed (EU, China, Philippines, etc.), chemical and microbial hazards, nutritional labeling.

New topics for future discussion:

- m. Phage for *Listeria monocytogenes* control.
- n. Ciguatera toxin given the potential impacts of climate change or spread. A real international topic.
- o. Norovirus and Hepatitis A new development.
- p. *Vibrio parahaemolyticus*: How to determine pathogenicity, markers, or other control measures.
- q. *Vibrio* problems: Improved testing, methods, virulence factors, controls/product handling.
 1. *V. parahaemolyticus*.
 2. *V. vulnificus*.
 3. *V. alginolyticus*.
- r. Toxoplasma gondii oocysts as an issue in oysters.

Larry Coleman commented on temperature abuse at the retail level for MAP packaging of RTE products. RTE Seafood Working Group to discuss topic. FSMA regulation. Contact the retail PDG for this topic.

Comment on International speakers: IAFP helps with some of the travel expenses. For non-IAFP members that are speakers, the registration is waived. Members may check the IAFP website for funding programs.

Recommendations to the Executive Board:

1. Approve Kevin Edwards as incoming Vice Chairperson for 2019.

Next Meeting Date: July 21, 2019, Louisville, KY.

Meeting Adjourned: 3:00 p.m.

Chairperson: Forest D. Reichel.

Student PDG

Attendees: Mary Yavelak (Chair), Margaret Kirchner (Vice Chair), Hamada Aboubakr, Jennifer Acuff, Emelia Adator, Seun Agbaje, Nurul Ahmad, Sulaiman Aljasir, Abimbola Allison, Brianna Anderson, Ana Arciniega, Nicole Arnold, Gabriela Arteaga Arredondo, Ilan Arvelo-Yagua, Ariel Babilonia, Louisa Bachman, Christopher Baker, Sudhakar Bhandare, Sabra

Billups, Giovana Bodnar, Samantha Bolten, Ernest Bonah, Jose Brandao Delgado, Brianna Britton, Elizabeth Brown, Stephanie Brown, Brittany Bullard, Yoriann Cabrera Bartolomei, Mary Callahan, Andrea Camas Molina, Carmen Cano, Loan Cao, Xiaoqiong Cao, Cameron Cason, Juhong Chen, Long Chen, Vijay Chhetri, Jeffrey Clark, Anna Colavecchio, Stephanie Colorado, Sarah Cope, Shani Craighead, Yue Dai, Corinna Darelius, Haley Davis, Bronwyn Deen, Claudia Diaz, Noemie D'Onofrio, Lindsey Doring, Paula Duarte-Guevara, Minh Duong, Andrea English, Sarah Engstrom, Erika Estrada, Savana Everhart, Justin Falardeau, Sara Farmer, Betty Yaohua Feng, Angela Ferelli, Karen Fong, Emily Forauer, Gina Frontino, Jose Fuentes, Samantha Gartley, Ashley Garwatoski, Bina Gautam, Catherine Gensler, Leah Gilman, Angelica Godinez Oviedo, Valerie Gonzalez, Mohammad Ruzlan Habib, Mohammed Hakeem, Lu Han, Keelyn Hanlon, Anna Sophia Harrand, La'Chia Harrison, Shoukui He, Monica Henry, Ian Hildebrandt, Runze Huang, Lauren Hudson, Mohammad Hussain, Matthew Igo, Hyein Jang, Elizabeth Jara Torres, Luis Jimenez, Stephanie Jimenez Ramos, Jiin Jung, Jasmine Kataria, Annette Kenney, Karuna Kharel, Ahyoon Kim, Tony Kountoupis, Kento Koyama, Margaret Lamson, Soon Kiat Lau, Marla Leal Cervantes, Jieon Lee, Youyoung Lee, Lacey Lemonakis, Cortney Leone, Ka Wang Li, Shenmiao Li, Marie Limoges, Caitlín Lineback, Pushpinder Kaur Litt, Jia Liu, Xingchen Liu, Xuanjing Liu, Phillip Luu, Beatriz Luz Martinez, Vivian Ly, Daiza Mendez-Perez, Luyao Ma, Brittany Magdovitz, Kathryn Magee, Stephanie Maggio, Sahar Malekmohammadi, Claire Marik, Gabriella Mendes Candido De Oliveira, Ellen Andrea Mendez Sosa, Robyn Miranda, Zahra Mohammad, Daniel Monte, Eric Moorman, Juan Moreira, Benjamin Morrow, Thabang Msimango, Jorge Muniz Flores, Sara Munoz, Flavia Negrete, Estefania Novoa Rama, William Olson, Morrine Omolo, Valerie Ortega, Katelyn Ortega, Angel Otero Franqui, Yuda Ou, Laura Patterson, Mengfei Peng, Yamila Perales De La Rosa, Hannah Pilch, Dennis Pletcher, Mingyu Qiao, Jaime Ragos, Alejandra Ramirez, Loandi Richter, Catherine Rolfe, Nancy Rubio Zapata, Christopher Rupert, JoAnn Sagalar, Jyotij Saha, Kristen Saniga, Morgan Sarchet, Diana Vanessa Sarria Zuniga, Lester Schonberger, Carla Schwan, Nicholas Severt, Katarina Simunovic, Sultana Solaiman, Philip Steinbrunner, Varalakshmi Sudagar, Quincy Suehr, Lang Sun, Kevin Thomas, Laura Truitt, Salomon Tzanigab, Daniel Vega, Tushar Verma, Kirty Wadhawan, Katherine Wakeley, Kaidi Wang, Xinyao Wei, Margaret Weinroth, Daniel Weller, Asher Wenig, Chanelle White, Frances Widjaja, Catherine Wong, Jungha Woo, Shuang Wu, Tongyu Wu, Chenghuan Xu, Xinmiao Xu, Lily Yang, Ye Htut Zwe, Ayojesutomi Abiodun-Solanke, Carly Adams, Sarah Allard, Ahmad Almasoud, Abdulaziz Alzimami, Bassam Annous, Fatemeh Aataei, Richelle Beverly, Tom Black, David Blomquist, Joseph Bosilevac, Fernanda Bovo Campagnollo, Renee Boyer, Lourdes Brandao, Mindy Brashears, Christine Bruhn, Anthony Bui, Kellie Burris, Luisa Castro, Ben Chapman, Jessica Chen, Dennis D'Amico, Michelle Danyluk, Pascal Delaquis, Tom England, Blanca Escudero-Abarca, Maria Espana, Khashayar Farrokhzad, Tony Flood, Michele Fontanot Borasino, Nick Forshee, T.J. Fu, Francisco Garces Vega, Kathleen Glass, Gustavo Gonzalez Gonzalez, Rebecca Goulter, Julian Graham, Anyi Gutierrez, Linda Harris, Yingshu He, Erin Headley, Tracie Hershberger, Anna Hilgart, Kirsten Hirneisen, Omotayo Irawo, Tim Jackson, Lee-Ann Jaykus, Lone Jespersen, Ramin Khaksar, Kalmia Kniel, Jessica Laurent, Linda Leake, Alvin Lee, Xinhui Li, Zengxin Li, Jie Yin Lim, Tatiana Lorca, Chip Manuel, Alejandro Mazzotta, Petrina McKenzie Reynolds, Ann Marie McNamara, Jessica Meisinger, Maia Metreveli, Matthew Moore, Mark Moorman, Teresa Olson, Mickey Parish, Randall Phebus, Mauricio Redondo-Slano, Brianna Reed, Carrie Rigdon, Michael Roberson, Tanya Roberts, Rodrigo Santibanez, Katie Satchwell, Don Schaffner, Shawna Schwab, Gaofetoge Sethare, Shima Shayanfar, Adrienne Shearer, Manpreet Singh, Tori Stivers, Laura Strawn, Siddhartha Thakur, Sheela Thogaru, Angela Valadez, Nicole Vaughn, Josh Warren, Brooke Whitney, Darrel Williams, Robert Williams, Danielle Wroblewski, Mu Ye, Morgan Young, and Jackie Jackson.

Number of Attendees: 280 (~40 Students at PDG business meeting).

Meeting Called to Order: 1:05 p.m., Sunday, July 8, 2018.

Minutes Recording Secretary: Catherine Gensler.

Old Business: Outgoing SPDG officers were acknowledged for their hard work this past year. A review of all sponsored and cosponsored 2018 sessions was completed.

New Business: Each incoming officer gave a brief introduction. Incoming Chair Mary Yavelak addressed the room about the success of programs that have been implemented since last year. The mentor-mentee program

had an overwhelmingly positive response considering that this was the first year. Forty-three students sought a mentor through the program and 85 professionals were looking for a mentee! The Program Committee is looking for more students to join the program so that more partnerships can be made. The Student Liaison Program connected 15 students to 13 PDGs. Liaisons link the sPDG to other PDGs, facilitating symposia co-sponsorship, connecting students to PDG scholarships and events, as well as completing crucial PDG tasks and business.

Students were encouraged to visit the student booth in the exhibit hall to purchase T-shirts and stickers as well as to get more information about the inaugural IAFP scavenger hunt. The search requires participants to find and photograph themselves with items relating to three categories: events at the Annual Meeting, networking, and Salt Lake City. Students have until Tuesday at noon to complete the hunt. Winners will be announced at the student mixer.

Lily Yang and Nicole Arnold hosted the second annual three minute thesis competition. Submission quality was very high this year. Many thanks for the committee work that made this possible and the judges who narrowed down the field to the five competitors who presented live. Lunch attendees voted on the best presentation and a panel of judges also selected a winner. Both the members' choice and the judges' selection will be announced at the student mixer on Tuesday, July 10, 2018. The meeting concluded with a review of roundtable and symposia guidelines and a brainstorm for potential ideas for further development. If an idea is not accepted by the Program Committee, it has the potential to be developed into a webinar.

Symposia/Workshop Ideas:

- Increasing international student membership and participation beyond the U.S.
- Food Safety Communication Workshop for students/3-minute Thesis workshop for students.
- Bringing Bioinformatics into the classroom of underdeveloped countries (Co-sponsored with Developing Food Safety Professionals).
- Open Access Journals: Use, culture, integrity.
- Managing a food production Environment.
- Education and Communication Across Cultural Lines.
- How Culture influences food and food safety/ working with minorities and cultural differences.
- Origins of high risk Consumers' Food Safety Information (Where, how can we help them).
- Communicating food safety to farmers effectively.
- Future of Cooperative Extension – connecting more stakeholders (buyers).
- Cannabis Part 2.
- Training Cottage Industry about food safety.
- * Standardization of Appliances for easy of labeling cooking instructions.

Recommendations to the Executive Board:

We thank the Board for their responsiveness to our requests and their continued support of the Student PDG.

1. Recommend Margaret Kirchner for Student Professional Development Group Vice Chair.
2. Continue the presale of t-shirts online during registration for the Annual Meeting, but collect sizes, so shirts can be set aside.
3. Expand Student Liaison program to Committees, as currently this program only connects to PDGs.
4. Discuss adding a student representative to the Executive Board to represent student affairs.
5. Create a designated space at the Annual Meeting for mentors and mentees to meet.
6. Provide signage or funds to print signage to identify the student booth and distinguish it from other exhibitor booths.
7. Extend the time allotted for student lunch and business meeting to allow adequate time for lunch, competition and PDG business.
8. Provide monetary compensation (even if small) for all student labor during the Annual Meeting (ex. scanning badges, handing out programs, etc.). We are encouraging students to be actively involved in the meeting, and action taking them away from the program should be appropriately compensated.
9. Declare 'student' as a topic in symposia submissions, as all other PDGs are represented as a topic.

Next Meeting Date: July 21–24, 2019, Louisville, KY.

Meeting Adjourned: 1:30 p.m.

Chairperson: Mary Yavelak.

Viral and Parasitic Foodborne Disease PDG

Attendees: Efi Papafragkou (Chair), Alexandre Da Silva (Vice Chair), Michelle Acheson-MacLeod, Brienna Anderson, Kellie Burris, Yoriann Cabrera Bartolomei, Rachel Chalmers, Kow-Ching Chang, Haifeng Chen, Shani Craighead, Sally Crowley, Carl Custer, Lise Duran, Mauricio Durigan, Kevin Edwards, Blanca Escudero-Abarca, Tracy Fink, Connie Freese, Balasubramanian Ganesan, Stephen Grove, Jesus Guzman, Diana Hao, Kirsten Hirneisen, Jessica Hofstetter, Emily Hovis, Tim Jackson, Hyein Jang, Lee-Ann Jaykus, Julie Jean, Ahyoon Kim, David Kingsley, Marla Leal Cervantes, Alvin Lee, Jeong-Eun Lee, Jieon Lee, Youyoung Lee, Kayla Liebman, Kory Longhurst, Beatriz Luz Martinez, Naim Montazeri, Alex Montgomery, Matthew Moore, Helen Murphy, Flavia Negrete, William Olson, Ynes Ortega, Angel Otero Franqui, Franck Pandiani, Jennifer Pierquet, Yvonne Qvarnstrom, Gary Richards, Rachel Rodriguez, JoAnn Sagalar, Lester Schonberger, Arlette Shazer, Caroline Smith DeWaal, Marianne Solomotis, Anna Starobin, Joni Sweet, Michael Wendorf, Chris Whitehouse, Jacqueline Woods, and Zhihui Yang.

Number of Attendees: 52.

Meeting Called to Order: 9:00 a.m., Sunday, July 8, 2018.

Minutes Recording Secretary: Dave Kingsley.

Old Business: Minutes from IAFP 2017 approved.

New Business:

- Introduction of attendees including the Chair (Efi Papafragkou) and Vice Chair (Alex DaSilva).
- Accepted proposals and overall presentations/posters related to virus/parasites from this year's program were highlighted.
- Invited speaker, Rachel Chalmers from the *Cryptosporidium* Reference Unit Public Health Wales, UK, gave a presentation on evaluating methods and identifying needs for parasites. COST Action EURO-FBP (FA1408) promotes collaboration between scientists working on foodborne parasites in Europe parasite ranking, analytical and diagnostic method availability, interventions and drivers that will promote the occurrence, transmission and risk of foodborne parasites in Europe.

Lee-Ann Jaykus gave an update on the Norovirus Collaborative for Outreach, Research, and Education (NoroCORE) project than ended in spring where more than 200 stakeholders were involved in the six different core disciplines of the project: Molecular Virology, Detection, Epidemiology and Risk Analysis, Prevention and Control, Extension and Outreach, and Capacity Building. She highlighted major success in development of a cell culture system (Baylor college), the Noroptimal risk model, the discovery of several ligands for virus capture, extended study of surface disinfection products, the advantage of having reagents exchange between the participating members and the work that lead to the importance of virus aerosolizing for transmission.

- Lester Schonberger from the student PDG, talked about IAFP's a Student Liaison program as well as ways to promote student development with this PDG in the future.
- Tim Jackson from the IAFP Executive Board highlighted that this year over 3800 attendees have registered, and The Exhibit Hall increased by 8 booths over last year. Only 90 symposia out of 200 proposals were accepted by the Program Committee due to space and time slot constraints, so PDGs are encouraged to engage with each other in developing new symposia proposals for 2019. Both *Food Protection Trends* and the *Journal of Food Protection*. Support student activities by purchasing the 2018 student shirt at the Student booth in the exhibition hall. Our 14th European Symposium on Food Safety was held at the end of April this year in Stockholm, Sweden while next year's European Symposium will be held April 24–26 in Nantes, France. During the discussion for proposal topics for IAFP 2019 for development into symposium, roundtable and workshops, the following topics were discussed:

- Include international speakers and coverage of issues of international interest.
- Roundtable on traceback end to end: state of the art (early signals for outbreak investigation, block chain technology) in collaboration with other PDGs (fruit and vegetable, pre-harvest).
- Hard to detect/culture viral/parasitic pathogens (with applied methods PDGs).
- Roundtable on solutions for controlling the contamination of viruses and parasites in foods. Attendees from industry indicated that the control topic is of high interest to industry, especially when referring to emerging pathogens such as *Cyclospora cayetanensis*.
- ILSI Europe is planning to hold a webinar on virus control in collaboration with the Risk Assessment PDG (Alvin Lee).
- A workshop on methods for foodborne viruses and parasites to close visible gaps in detection of such pathogens in foods. This workshop could also focus on processes to enhance lab capabilities and capacity on national and international scale to test for viruses and parasites in foods.
- Hepatitis E virus detection in “new” foods (milk, produce) around the world and what can be done to prevent this and communicate the risk.
- Symposium on metagenomics applied to detection of viruses and parasites in environmental samples and foods.
- The need to collaborate with other PDGs was highlighted to minimize competition (90/200 proposals were accepted this year).

Recommendations to the Executive Board:

1. Assist the PDGs to strengthen communication and collaborations to avoid overlap/duplication of proposals. If possible promote conference calls among PDG’s Chairs prior to submission of proposals.

Next Meeting Date: July 21–24, 2019, Louisville, KY.

Meeting Adjourned: 11:00 a.m.

Chairperson: Efi Papafragkou.

Water Safety and Quality PDG

Attendees: Phyllis Posy (Chair), Elisabetta Lambertini (Vice Chair), Ayojesutomi Abiodun-Solanke, Achyut Adhikari, Shakeel Ahmad, Jamie Allen-Hitt, David Basinger, Manreet Bhullar, Nancy Bontempo, Roger Cook, Sarah Correll, Thais De Melo Ramos, Rob Donofrio, Noemie D’Onofrio, Mauricio Durigan, Aliyar Fouladkhah, Chad Galer, Balasubramanian Ganesan, Samantha Gartley, Leon Gorris, Cherie Gudz, Eduardo Gutierrez-Rodriguez, Fawzy Hashem, Erin Headley, Claus Heggum, Lijun Hu, Qing Jin, Michael Kalish, Peter Kennedy, Ahyoon Kim, David Kingsley, Samuel Kiprotich, Jasna Kovac, Jeong-Eun Lee, Kayla Liebman, Shihan Lin, Kory Longhurst, Yuqian Lou, Wendy Maduff, Joey Marchant, Justin McConaghy, Patricia Millner, Yuda Ou, Salina Parveen, Jitu Patel, Alda Pires, Kally Probasco, Christophe Quiring, Ravindra Ramadhar, Mika Roberts, Channah Rock, Lindsey Ross, Marc Scantlin, Jason Scheffler, Vicki-Lynne Scott, Edward Sliwinski, Arianna Smith, Michelle Smith, Christina Stam, Don Stoeckel, Debbie Stroud, Trevor Suslow, Anna Theil-Gangl, Phillip Tocco, Daniel Weller, Charon Willis, Zhihan Xian, Zhihui Yang, May Yeow, and Morgan Young.

Number of Attendees: 70.

Meeting Called to Order: 3:17 p.m., Sunday, July 8, 2018.

Minutes Recording Secretary: Elisabetta Lambertini.

Introductions of members in attendance – 70 attended for some portion.

2017 Minutes approval: Moved and seconded, approved by voice vote.

Overview of water-related sessions at IAFP 2018.

Highlights on current efforts: Dan Weller (looking for collaborators and data on NSF project) and *Listeria* in water.

Recap of PDG 2018 webinar series on “Water for Food Production: Does Water Matter?” available in the IAFP archives for members. Focus on municipal water use by food processors.

Symposia idea generation

- Goal: Develop a Two sentence statement for each symposium idea to be further developed.
- Split into 3 groups for discussion.
- Topics listed below:
 1. *Water Reuse* is inevitable. How can food processors develop a fit-for purpose system? Assess the risk associated with a re-used water source and use, develop tailored modular treatment approaches; understand implementation challenges. Including biofilms in plant distribution and storage systems, what to test and how frequently, water traceability.
 - i. Collaborate with these PDGs: Food Hygiene and Sanitation; HACCP; Pre Harvest.
 2. *Water Management at Global Companies* While Food and Beverage industries around the globe differ enormously in their size, products and capabilities, they have one thing in common – dependence on water. This will share experiences and expertise in how to deal with water challenges.
 - i. Collaborate with these PDGs: International, Seafood, Beerages, Fruit and Vegetable, Food Hygiene, Meat, Dairy and Pre Harvest.
 3. *Auditing for Water* How do food audit schemes relate to water use, water traceability, water microbial integrity, water efficiency? Do Auditors and Inspectors have the training they need to ask the right questions? Where can they get the information they need?
 - i. Collaborate with these PDGs: Developing Food Safety Professionals; Food Safety Assessment, Audit and Inspection, Student, HACCP Utilization and Food Safety Systems PDG, Food Safety Education.

Recommendations to the Executive Board:

1. The Water PDG recommends more inclusion of sustainability practices across the board. Specifically we recommend that the Board encourage PDGs and Committees to include sustainability and resources conservation in their discussions and symposia topics.

Next Meeting Date: 2019 IAFP Annual Meeting, Louisville, KY.

Meeting Adjourned: 5:03 p.m.

Chairperson: Phyllis Butler Posy.

Affiliate Council Minutes

IAFP 2018 – Sunday, July 8, 2018

Salt Lake City, Utah

Affiliate Delegates Present

North America

Alabama	Neil Bogart
Alberta	Lynn McMullen
Arkansas	Brian Umberson
Capital Area	Jenny Scott
Carolinas	Linda Leake
Colorado	Mark Caudel
Florida	Peter Hibbard
Georgia	Wendy White
Indiana	Amanda Deering
Missouri	James O'Donnell
New Jersey	David Reyda
New York	Amy Rhodes
Ohio	Christina Wilson
Oklahoma	Maria Ma
Ontario	Ananth Kasic
Pennsylvania	Peggy Good
Quebec	Julie Jean
Texas	Alex Castillo
Upper Midwest	Tom Berry
Washington	Stephanie Olmsted
Wisconsin	Adam Borger

International

Africa	Peter Kennedy
Brazil	Maria Landgraaf
Korea	Kun-Ho Seo
Mexico	Norma Heredia
New Zealand	Roger Cook
Southeast Asia	Alvin Lee
Taiwan	Chia-Yang Chen
United Arab Emirates	Bobby Krishna
United Kingdom	David Lloyd

IAFP Board and Staff Present: Mickey Parish, Tim Jackson, Kali Kniel, Roger Cook, Ruth Petran, David Tharp, Lisa Hovey, and Susan Smith.

Visitors/Guests: Hussam Azzam Mohammed (UAE); Karen Beers (AR); Dave Blomquist (MN); Laurel Burke (CO); Marion Castle (New Zealand); Jessica Chen (GA); Duncan Craig (Australia); Carl Custer (Capital Area); Joe Delaney (IL); Leanne Ellis (United Kingdom); Justin Falardeau (British Columbia); Balasubramanian Ganesan (Washington); Santos Garcia (Mexico); Fabiana Guglielmo (Argentina); Sanjay Gummalla (Capital Area); Nancy Gushing (AR); Erin Headley (WI); Diana Kassari (Lebanon); Ahyoon Kim (Korea); Se-Hyung Kim (Korea); Shigenobu Koseki (Japan); Kunihiro Kubota (Japan); Jeong-Eun Lee (Korea); Zengxin Li (Chinese in NA); Hyun Woo Lim (Korea); Charlie Mack (IL); Deon Mahoney (Australia); Steve Murphy (NY); Charles Muyanja (Africa); Julianny Rivera Calo (CO); Diego Romulo (Argentina); Adam Serfas (IN); Lee-Yan Sheen (Taiwan); David Shelep (Southern CA); Barbara Smith (AR); Dawn Stead (Southern CA); Kelly Stevens (MN); Gloria Swick-Brown (OH); Tomohiko Tsurumaru (Japan); and Wen Zou (Chinese in NA).

Meeting Called to Order: 7:07 a.m., July 8, 2018.

Recording Secretary of Minutes: James O'Donnell.

Agenda: The agenda was reviewed with the following update made:

1. Recommended change to agenda should read **Chilean Corporation for Food Protection** and unanimously approved.

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

Approval of 2017 Minutes: A motion to amend as follows was approved and seconded:

1. Xiuping Jiang with Chinese NA Affiliate should be listed as Delegate, not guest.
2. Tom Berry with Minnesota Affiliate should be listed as Delegate, not guest.

Report from Affiliate Chairperson: Alex Castillo provided the following updates:

1. Recognition of new Affiliate: Chilean Corporation for Food Protection
2. Affiliates with milestone anniversaries were recognized: (report from the floor)
 - a. New York – 95 years
 - b. Arkansas – 10 years
 - c. Ontario – 60 years
 - d. Illinois – 70 years
3. MMMFEHA/MEHA Merger update by James O'Donnell
 - a. Missouri Milk, Food and Environmental Health Association has merged with the Missouri Environmental Health Association effective July 3, 2018 and will now be known by that name. We will retain our histories in Food Protection since 1932.

Report from IAFP President: President-Elect Tim Jackson updated the Affiliate Council Meeting attendees with the status of IAFP, stressing that IAFP was in a good financial position and we anticipate a record for number of exhibitors and attendees at this year's meeting.

Report from IAFP Executive Director: David Tharp welcomed the Delegates to Salt Lake City and IAFP 2018. His comments included:

1. Thanks to Affiliates for their growth and strong future.
2. Number of staff members remains the same (11) as 25 years ago, and they continue to do a remarkable job, considering how much IAFP has grown.

Report from IAFP Staff Liaison: Susan Smith reported the following: IAFP had 42 out of 50 (84%) file an Annual Report, up 5% from 2017. All Affiliates need to comply with IAFP Bylaws by submitting an Annual Report. As voted on in 2017, all Annual Reports for 2017 were submitted electronically, including those applying for awards. While most were submitted with no problems, Susan cautioned about sending too many emails and attachments for only one Annual Report, which caused confusion with a particular Affiliate. More Affiliates are encouraged to apply for awards. Make sure that Affiliate Presidents and Delegates are current IAFP Members, as required in the Bylaws. Susan asked that Affiliate websites be kept current to allow her to gain information for the *Affiliate View* and calendar promotions. Take advantage of the Executive Board Speaker Program to get a high-quality speaker for your Affiliate meeting at an affordable cost. Article and photo submissions were encouraged to be included in *Affiliate View*, and Susan provided suggestions on taking photos that will reproduce well. Affiliates were reminded to let her know when dues change.

Roundtable Discussion: Fifteen minutes were devoted to the roundtable discussions about the following topics: "How can you recruit Members in your area to become involved in your Affiliate (those who are non-Affiliate Members)?" "How can you encourage your Affiliate Members to become IAFP Members?" "How can you encourage non-active Affiliate Members to become more so within your Affiliate (those who have paid dues but don't come to meetings)?" Affiliate groups and discussions on each question are summarized below:

1. *Representatives from Argentina, Australia, Georgia, Mexico and Ontario:* IAFP can provide a membership list to follow up. Translate key material to encourage membership. Can be a challenge when covering a whole country (getting members to attend meetings in various cities). Encourage IAFP to hold Annual Meetings in other countries (Calgary played host in the past). Use LinkedIn and social media. Encourage corporate memberships (to include all staff members). Provide material in local language. Mexico has developed online materials and other benefits for local members. If you have a fantastic meeting venue, encourage attendance. Hold meetings at major companies and include tours.
2. *Representatives from Capital Area, Korea, Minnesota, Southern California and Washington:* Need a listing of IAFP Members in the respective area (a monthly report is available to some

Affiliates with new IAFP Members in their area). Provide a list of the percentage of IAFP Members in respective areas who are not Affiliate Members to allow for growth. Create a nationwide/worldwide campaign from IAFP to promote Affiliates (provide links to all Affiliate updated websites). Provide a folder/brochure about Affiliates to send to new IAFP Members in the area (the power of snail mail). Create a personal invitation from an Affiliate Board Member. Take advantage of the IAFP Executive Board Speaker Program. Can IAFP provide a list of those in the area who sign up for webinars, classes, etc. so the Affiliate can get them involved? Place an emphasis on Student Affiliate Memberships (that can possibly translate to IAFP Memberships). Invite non-active Affiliate Members to speak at meetings. Provide food and seek donations/sponsorships. Call non-active Members personally to help with the meeting.

3. *Representatives from British Columbia, Georgia, Minnesota and New Jersey:* Search on the IAFP website for those who are IAFP Members in the Affiliate area. New Jersey private consultants reach out to clients to join Affiliate Corporate Membership. Should Affiliate membership be mandatory/included in IAFP Membership? Talk about benefits of IAFP Membership at Affiliate meetings and remind that *IAFP Report* and *FPT* online are included in membership. New Jersey raffles an IAFP Membership at their meetings. IAFP Members have access to free webinars, reduced meeting rates, etc. People don't see the value in IAFP Membership if they don't attend Affiliate meetings. For non-active Affiliate Members, make meetings more accessible or more convenient (through webinars?) to attend. Students who present posters at IAFP Annual Meetings can present at Affiliate meeting. Raffle the complimentary IAFP Membership Certificate sent for meetings.
4. *Representatives from Illinois, New York, Pennsylvania and United Kingdom:* Offer training certificates for certain educational topics. Conduct strategic planning as a group discussion to help with future planning. Hold poster sessions at Affiliate meetings to bring in students. Send letter from IAFP Member(s) to join the Affiliate. Use free materials at meetings. Use the complimentary IAFP Membership Certificate as a raffle item. Conduct a raffle to raise money for scholarships at local colleges for students going into the food safety field. Rework respective websites to make more user-friendly and access benefits of joining.
5. *Representatives from Africa, Alabama, Canada, Ohio and Upper Midwest:* Offer educational credits. Look for IAFP Members in your state/region and send a welcome letter (members can be found on IAFP website). Hold a poster session competition to draw college students and professors. Upper Midwest offers \$500 to go toward attending the IAFP Annual Meeting. Hold your meeting at an interesting/unusual venue (e.g., microbrewery or a company that offers a tour). Offer a free registration to attend an Affiliate Annual Meeting.
6. *Representatives from Brazil, Carolinas, New Zealand, Quebec and UAE:* Many international IAFP Members are already involved in the Affiliate. Encourage Affiliate members to come to the IAFP Annual Meeting. Go outside the core incentives for non-active Affiliate Members to become more involved, i.e., target service providers, technology companies, chemical companies, and others who need to understand food safety. Offer group memberships or a free membership for the first year. Small advisory committees can provide information and suggestions in their particular areas of expertise and interest
7. *Representatives from Indiana:* Indiana Environmental Health Association is 63 years old and had eight new members in 2017, for a total of 230 active members and eight sustaining members. IEHA holds eight regional chapter meetings throughout the state. The spring and fall meetings are held in various locations throughout the state. Its biggest challenge is recruiting new members from industry (government and academia are not a problem). Biggest success is our Annual Meeting that includes students and faculty and those from government giving presentations. Provide incentives to increase Affiliate and IAFP Memberships.

Election of Affiliate Council Secretary: Alex Castillo announced that Li "Maria" Ma, Delegate from Oklahoma, was willing to stand for election, and asked if there were any nominations from the floor. Ananth Kasic from Ontario volunteered to stand for election. Maria Ma was elected by hand vote as Secretary (nominees were out of the room at time of vote). Ananth was encouraged to consider running again in the future.

Presentation of the Affiliate Awards: Alex highlighted the achievements of the award winners and presented the 2018 Affiliate Awards to the following:

Affiliate Membership Achievement – Ontario Food Protection Association

Affiliate Communication Materials – Ontario Food Protection Association

Affiliate Member Education – Taiwan Association for Food Protection

Best Affiliate Overall Meeting – Arkansas Association for Food Protection and Oklahoma Association for Food Protection (joint award)

Florida Association for Food Protection received the C.B. Shogren Memorial Award, which will be presented at the Awards Banquet on Wednesday, July 11, 2018.

Old Business: Alex Castillo reported on:

1. Recommendations to the IAFP Executive Board
2. Recommend placing all submitted Affiliate Annual Reports for the most recent active year on the IAFP website for viewing, eliminating the need to display at Annual Meeting. Board approved, and they are now posted on the website under the Affiliate tab. Decision was made to continue to have print copies available for viewing during the Annual Meeting due to high interest.

New Business:

1. Needs assessment for accessibility to journals
 - a. Simple query: "Have any of your Affiliate Members had difficulty accessing *JFP* or *FPT* online?"
 - b. Members to email Susan with comments.
2. Read the monthly *IAFP Report* that all Members receive via email. It contains all the updated news you can use in food safety and even some you weren't aware of.
 - a. This is a value add for your membership.
 - b. Check your spam or junk folders if you are not receiving it.
3. Utilize IAFP staff (Susan Smith) to acquire Executive Board speakers for Affiliate Meetings (vs. going directly to the speaker). Executive Board Speakers are an economical and added benefit of being an Affiliate.
 - a. IAFP pays transportation to and from location.
 - b. Affiliate pays local lodging and food.
4. How can the Affiliate Council Meeting be improved?
 - a. Members to email Susan with suggestions.

Affiliate Reports: Delegates/Representatives gave two-minute oral summaries of their respective Affiliate activities for 2017. Reports included the number of active members, number of general membership meetings hosted in 2017, biggest challenges, biggest successes, and topics of interest to other Affiliates.

Final Comments:

1. Concern of PDG meetings overlapping with Affiliate Council Meeting as many Delegates are highly involved in PDGs. Is there a way to have PDG meetings that Delegates are involved with scheduled later?
2. Suggestion made that Affiliate 2-minute summaries take place at the beginning of the Affiliate Council Meeting to allow those who need to go to PDGs to participate. Affiliate summaries are considered a main reason to attend the meeting to share and learn about each Affiliate's actions. It was proposed that the roundtable discussion be moved to the end of the Affiliate Council Meeting and the meeting structure re-evaluated. A survey of Delegates and Affiliate Officers will be created and distributed by Susan Smith to evaluate the meeting's structure, with results sent to the Affiliate Council Board.

Recommendations to the Executive Board:

1. Can Affiliate webinars, non-sponsored by IAFP, be promoted to Members outside of the Affiliate through the IAFP newsletter/promotional venues?
2. Can the process be simplified to allow Affiliates to schedule/conduct their webinars?
3. Can IAFP send out simplified instructions for webinars regarding scheduling and conducting webinars?
4. Can we make IAFP Membership dues automatically include a pop-up for your local Affiliate membership dues?

Passing of the Gavel: Chairperson Alex Castillo passed the gavel to James O'Donnell, signifying the beginning of James' term as Affiliate Council Chair.

Next Meeting Date: July 21, 2019, Louisville, KY.

Meeting Adjourned: 10:19 a.m.

Chairperson: Alex Castillo