

COMMITTEE AND PROFESSIONAL DEVELOPMENT GROUP MINUTES

Food Protection Trends Management Committee

Attendees: Byron Chaves, Clara Diekman, Jason Scheffler, Yuhuan Chen, Yaohua Betty Feng, Camryn Cook, Laura Strawn, Cathy Cutter, Matthew Moore, Daniel Weller, Montserrat Iturriaga, Amarat Simonne, Fred Breidt, Salina Parveen, Purnendu Vasavada, Peyman Fatemi.

Board and Staff Present: Emilio Esteban, Lisa Hovey, David Tharp.

Number of Attendees: 19.

Meeting Called to Order: 2:03 p.m. Eastern Time, Sunday, July 3, 2022.

Minutes Recording Secretary: Camryn Cook, Student Liaison.

Old Business: The 2021 recommendations to the Board were discussed as follows: (1) Incorporating DOI numbers to *FPT* peer-reviewed articles which is beneficial for academics. On that note, academic submissions represent over 75% of *FPT* accepted articles. (2) Dr. Laura Strawn was approved as the Committee's Vice Chair and is now serving her second year in this position; (3) Format changes to *FPT* references list based on *JFP*'s were proposed and approved in 2021. With *JFP* migrating to Elsevier, the format may change and *FPT* will reassess in 2023; and (4) A checklist for authors was approved to be included with the instructions for authors to facilitate submission in the Allen Press system and reduce burden on IAFF staff.

New Business: Scientific Editor, Dr. Catherine Cutter, reported that submission numbers declined slightly during the COVID-19 pandemic. Most submission come from academics, with little industry and government representation in *FPT* peer-reviewed papers. Additionally, 75% of submissions are domestic.

The submission system does not have a place to recommend reviewers. It is strongly suggested that this is added so that authors can provide names of potential reviewers to help the Scientific Editor allocate manuscripts if the expertise is not reflected in the Editorial Board or if no members of said board are available to review.

Some demographic information is collected by other journals upon submission of a manuscript. A discussion ensued regarding collecting demographic information from *FPT* authors to then feed into the IAFF DEI Council data. However, at this point, we do not know what the utility of such data or the legalities would be associated with collecting the data. The Committee will reach out to the DEI Council directly for thoughts.

Byron Chaves' term as chair of the Committee ends at the beginning of the 2023 meeting in Toronto, with Laura Strawn then taking over as chair. During spring 2023, we will be sending out a form for nominations for the Vice Chair position to start at the beginning of the 2023 Annual Meeting.

Recommendations to the Board:

1. Because of ethics review and clearance, federal employees may not be able to serve their entire 3 years on the committee. Therefore, it is recommended that the term begins when the ethics review is clear. Potentially move up committee invitations to the beginning of the year rather than the current invitation which is in October.
2. Recommendation to adopt the same formatting as *JFP* once the switch to Elsevier begins so the same style guide can be used for both journals.
3. Make a call for Case Studies where we could open up or reach out to specific people based on things that have happened recently in the food industry.

4. Call to papers: approach and refine later but reach out to commodity boards/trades, symposium, industry, affiliates, and government partners and see how we can get authors from those organizations.
5. Make a recommendation to include a blank where authors or editorial board members can suggest reviewers. Create an invitation email if the person is not on the editorial board.

Journal of Food Protection Management Committee

Attendees: Matthew Moore (Chair), Ian Young (Vice Chair), Fred Breidt, Elliot Ryser, Lauren Jackson, Arpita Aditya, Doris D'Souza, Martin Duplessis, Judy Luther, Morgane Dagot, Joshua Gurtler, Cathy Cutter, Panos Skandamis, Ana Allende Prieto, Armitra Jackson-Davis, Anderson Sant'Ana, Byron Chaves, Kali Kniel, Sanjay Gummalla, Patricia Rule, Laurel Dunn, Manivannan Selladurai, Anett Winkler, Emilio Esteban, Mickey Parish, Gary Acuff, Alvin Lee, Bala Kottapalli.

Board/Staff Present: Ruth Petran, David Tharp, Lisa Hovey, Dina Siedenburg.

Number of Attendees: 32.

Meeting Called to Order: 10:00 a.m. Eastern Time, Sunday, July 31, 2022.

Minutes Recording Secretary: Arpita Aditya.

Old Business: The meeting started at 10 AM. Matthew Moore distributed the meeting agenda and gave a brief introduction. Outgoing Chair Fred Breidt provided general remarks on the *JFP* Committee. The Chairman requested the committee members to introduce themselves. Following the introduction, the chairman sought the approval of the Minutes of the meeting of 2021 from the committee members. A motion was passed to approve the minutes of the meeting of 2021 and was seconded by the committee members. A welcome to new committee members (Ana Allende Prieto, Vidya Ananth, Laurel Dunn, Martin Duplessis, Lisa Gorski, and Ian Young) was provided, and a thank you to exiting committee members (Fred Breidt, Angela Fraser, Sanjay Gummalla, Cheng-An Hwang, Barbara Ingham, and Jeffrey Lejeune) was also given.

The scientific editors report was provided by Dr. Panagiotis Skandamis, who briefly appraised the status of publication in *JFP*. He mentioned that there is a change from Allen Press to a new platform for the publication process (Elsevier). Faster publication from 2019 to 2021 (due to the introduction of an online publication system in *JFP*) occurred. He added that printed manuscripts add a month more to the publication process. He also reported that 255 articles were published in issue 83, and 242 articles in issue 84 in 2021. He noted that *JFP* has seen decreased numbers in articles published since 2019 and mentioned that it is contradictory to see *JFP* seeing a decrease in articles published, despite seeing an increase in the journal impact factor over the years. The committee members were of agreement that the pandemic likely impacted the number of publications. There was decrease in publication time due to the shift toward online publication system and 64% of articles were published online in 2021. The publication time was 8-9 months in 2019 until acceptance, and was reduced to 4-5 months in 2021, however delays from the authors during the revision lengthened publication time. Of articles the articles published in *JFP*, 53% were from U.S. researchers.

It was reported that as of July 2022, 216 manuscripts were submitted to the journal, which is less than the previous year at the same time (266) and is unlikely to cross the last year mark by the end of the year. However, the last few weeks have seen an increased number of publications. *JFP* has been

receiving manuscripts around the world, but there is a need to attract European and other international researchers to publish in *JFP*. It was pointed out that the open access status of *JFP* will likely encourage more European researchers to publish in *JFP*. It was mentioned that a new Scientific Editor, Dr. Doris D'Souza, has joined the *JFP*. *JFP* has a dynamic editorial board with 183 members on board and there is a need to expand the area of food safety, artificial intelligence, microbiology, chemical food safety, and food fraud. The committee acknowledged the exceptional service offered by Dr. Elliot Ryser to *JFP* for more than 16 years and appreciated the efforts of Didi Loynachan for doing a great job in assigning manuscripts based on the expertise of the Editors, as well as helping run the journal.

In response to the decrease in the submission numbers to *JFP*, committee members raised the question of whether the decrease in numbers is specific to *JFP* or is the same in other journals. A comparison on the number of articles published in *Food Research International* was discussed, and Dr. Anderson Sant 'Ana informed the committee that *FRi* saw an initial increase in submissions during the initial phase of the pandemic due to old manuscripts/reviews being submitted during lock down with researchers submitting more publications, however, they also observed a decrease in the number of articles submitted in 2021, but numbers went up by 2022. Morgane Dagot (Elsevier) mentioned the drop in the number of publications could be due to a decrease in the number of publications coming up from China due to the Pandemic. She also mentioned that China contributes to about 20% of the publications worldwide. Dr. Skandamis noted a similar trend was reported in *JFP*, with 128 submissions received recently, 40 were from China. Mentioned that there is a need to include topics including artificial intelligence. Committee members suggested expansion of the scope of *JFP* (genomics, etc.) to increase visibility and submission numbers to the journal. Morgane then suggested providing links after conferences to invite speakers to submit manuscripts to *JFP*.

An administrative editors report was provided by Dina Siedenburg, who noted that Dr. Skandamis had mostly covered all of the information to be presented, and a written report was provided to the committee.

New Business: New business was then addressed, starting with discussion by Dr. Joshua Gurtler with respect to invited minireviews. He mentioned that there are commitments from selected researchers to contribute 20 mini-reviews to *JFP* currently, which excludes one that initially committed but withdrew. It was noted that minireviews can increase the number of citations and contribute to the impact factor of the journal.

Judy Luther then provided a brief context of the transition of *JFP* to open access and the selection of Elsevier as the future platform for doing this. This decision was initiated and approved by the executive board. She noted the Editorial Board in 2021 had 183 members, and 100 were on a call during the beginning of the process, of which most that spoke were in favor of transitioning to Open access status of *JFP*. She reported that articles published in subscription journals have seen a decrease due to open access journals. Further, it was noted that in some regions, there is a major incentive or even requirement to publish open access, like in Europe. A number of different publishing platforms provided offers, and one of the major factors leading to the selection Elsevier that Judy noted was that Elsevier was willing to provide the possibility of APC charges that are lower than most open access journals, with charges to be \$1,600 *JFP* members, \$2,000 non-members. Most APC charges for open access journals often exceed \$3,000. It was also noted in the committee that this will also provide a good incentive for bringing in new members to IAFF given the difference in cost relative to membership fees.

Morgane then presented an overview of Elsevier and appraised the scope and services offered by Elsevier. She provided a timeline of events planned on the transition to open access starting from July. Mentioned that the end of 2022 will be the last subscription issue. It is projected that January 2023 will be the first open-access issue. It was also mentioned that a 20% discount will be offered to IAFF members for open access and is expected to be linked soon. After Oct. 1, 2022,

manuscript submission will require an open access fee. For articles submitted before October 1st that are accepted but not yet published until January 2023, the open access cost will be covered so there is no charge to authors.

One of the advantages with Elsevier that was noted was that *JFP* would be in a larger food microbiology institutional ecosystem, as Elsevier carries a number of other journals with similar scope to *JFP* in some instances, like *Food Microbiology*, *Food Control*, and *International Journal of Food Microbiology*. This will potentially increase submissions and exposure to *JFP*, potentially by authors who initially submit elsewhere but the submission is editorially rejected for whatever reason, these articles could still be easily transferred in the Elsevier system to *JFP* if they are deemed of relevant scope and quality by the editors. For these aforementioned journals, the reviewers/reviews and manuscript could readily be transferred to *JFP* for consideration. Fred then asked how Elsevier will transfer manuscripts to other journals if not suitable for a specific journal. Dr. Catherine Cutter then asked about the process for transfer of *JFP* articles to *Food Protection Trends*, as *FPT* will not be carried by Elsevier. It was noted that this is something that occurs. In this case, the reviews/reviewers would not be as easily transferred to *FPT*, and may need to be done manually by the *JFP* editor. Dr. Elliot Ryser also raised the question of the degree to which copy editing will be performed in the new format. Morgane then responded that this, along with a number of the other logistical decisions (like services provided, formatting requirements, etc.) will be the topic of a future meeting between Elsevier and the Scientific Editors and *JFP*.

Next, a discussion regarding potential additional means to attract more submissions, as well as submissions from international authors occurred. The potential of holding special issues was discussed, with it noted that this is a strategy that some journals like those carried by MDPI use to some success. However, it was noted that there is a balance, and having too many special issues can dilute the overall power of the journal. The point was also raised that MDPI often has journals with broad scope, thus requiring and allowing more special issues. The possibility of a special issue related to the annual meeting was discussed as a possible means. Possibly an invitation for authors with accepted abstracts to the meeting to submit an article would be a good way of inviting more submissions of relevant scope, as there is a selection process completed with the abstract approval—possibly some form of discount on APC could be provided to those who agree as additional incentive. However, the formats of papers and creation of special issues are future points of discussion in the upcoming meeting between the editors and Elsevier. Another method discussed was to raise awareness on open access status of *JFP* via targeted e-mails and social media campaign. Another option to increase submission and visibility could be to continue to offer waivers and invited selected researchers on specific topics to contribute, which is already being performed. It was also noted that the move to Science Direct as a platform will likely provide increased visibility for the journal.

Unfinished business was then discussed. Dr. Gary Acuff representing the IAFF Foundation then addressed the committee. He discussed the potential interest of the Foundation in providing or developing a form of support system to support authors from underserved regions/countries for assistance (or waiver) of article processing charges. The committee shared general agreement and enthusiasm for this idea and continuing a dialogue with the Foundation to develop a program to provide assistance to authors who may not be able to afford publication. It was noted there is pre-existing mechanism for Editors offering reduced (or waived) page fees currently, however this could be expanded. Morgane noted that Elsevier has a foundation (Research4Life) that already provides/covers waivers for authors from developing countries, with two tiers (complete waiver or partial waiver) based on countries; so the transition to Elsevier will provide *JFP* this service at no cost to *JFP*. When authors select their institution in the submission portal with Elsevier, it automatically will apply this (or the cheapest rate) for authors. It was noted that this is another benefit of Elsevier, and the committee expressed support for continuing to reduce barriers for those from underrepresented

countries to publish in *JFP*. It was noted that there still are a number of countries that may not technically be classified as “developing” in the Elsevier foundation system, but whose institutional structures do not provide or allow most authors the ability to pay for APCs. This is one demographic that could potentially be served by support from the Foundation.

Nominations for the new Vice Chair of the *JFP Management* Committee was then sought. Dr. Ian Young then nominated himself to serve as the new Vice Chair. A motion to appoint Dr. Ian Young as Vice Chair was provided with no objections. Recommendations for the board were then reviewed and approved. No new additional business from the committee was mentioned, and the meeting was adjourned.

Recommendations to the Executive Board:

1. To reappoint Dr. Lauren Jackson as Scientific Editor to *JFP* for another 4-year term.
2. To appoint Dr. Ian Young as Vice Chair of the *JFP Management* Committee.
3. To express the interest and eagerness of the *JFP Management* Committee to work more closely with the IAFP Foundation to explore ways to provide means of affording article publishing charges for those who may be in situations or institutions where they cannot afford it.

Next Meeting Date: July 16, 2023, Toronto, Ontario, Canada.

Meeting Adjourned: 12:04 p.m. Eastern Time.

Chairperson: Matthew Moore.

Program Committee

Attendees: Pam Wilger (Chair), Francisco Diez (Vice Chair), Andrew Clarke, Faith Critzer, Heidi Den Besten, Paul Hanlon, Maria Hoffmann, John Jarosh, Lone Jespersen, Abani Pradhan, Anderson Sant’ana, Manan Sharma, Don Stoeckel, Xianqin Yang.

Board/Staff Present: Michelle Danyluk, Tamara Ford, Lisa Hovey.

Number of Attendees: 17.

Meeting Called to Order: 7:30 a.m. Eastern Time, Wednesday, August 3, 2022.

Minutes Recording Secretary: Francisco Diez-Gonzalez.

Old Business: The outgoing committee members Greg Siragusa, Heidi den Besten, Carrie Rigdon and Christina Wilson were recognized for their service.

New Business: The meeting began with introductions. Tamara explained the process for the 2022 submissions and the timeline was reviewed. The Committee would like the implementation of calendar invites for all deadlines, reviews dates, meetings and calls.

The overall evaluation of IAFP 2022 was positive. Room sizes were fairly accurate. The Ballroom was too big for a typical session, but served well for the U.S. Regulatory Update. The Committee may re-visit having one or two room dedicated to roundtables, so that all panelists can sit together on a stage.

PDG Chair and Vice Chair training was recommended for continuity earlier in the year so actions can be taken from the training prior to the meetings.

The Committee also discussed implementing an Organizer and Convenor training webinar that would need to be attended or viewed before final session acceptance. The training should cover:

- contingency plans.
- session introductions.
- session timing.
- roundtable structure.
- IAFP’s Policy on Commercialism.

Recommendations to the Executive Board:

1. The Program Committee Recommends that the Wednesday poster session presentations end at 1:45 p.m. The presentation times for authors would be 10:00 a.m. - 11:00 a.m. and 11:00 a.m. - 12:00 p.m. and then all Wednesday poster presenters would be present from 12:00 - 1:00 p.m.

Next Meeting Date: Thursday, November 5, 2021 (Conference Call).

Meeting Adjourned: 8:35 a.m. Eastern Time.

Chairperson: Pamela Wilger.

3-A Committee on Sanitary Procedures

Attendees: Carianne Endert-Klaasen (Chair), Steven Sims (Vice Chair), Timothy Rugh, John Merenick, Per Nielsen, Daniel Erickson, Curtis Weller, Steve Walker, Amandeep Dhillon, Partesha Verge, Dave Blomquist, Loron Pinnock Brown, Sandy Sim, Barbar Grayes, Anne Bigalke, LaTaunya Tillman.

Board/Staff Present: J. Emilio Esteban.

Number of Attendees: 16.

Meeting Called to Order: 10:00 a.m. Sunday, July 31, 2022.

Minutes Recording Secretary: Carianne Endert-Klaasen.

Old Business: J. Emilio Esteban presented on what’s going on at IAFP. Dan Erickson, former 3-A CSP chair presented to the participants about the history and importance of 3-A CSP to IAFP. Tim Rugh, Executive Director at 3-A Sanitary Standards Incorporated delivered an update about 3-A SSI. 3-A Committee on Sanitary Procedures developed a mission statement, as asked from the board in 2019. The mission statement states: To serve as a standing committee that supports the development of sanitary standards and practices in collaboration with 3-A Sanitary Standards, Inc., and the promotion of educational content for those standards and practices.

New Business: The floor was opened to the participants for 2023 symposium topics which included a topic about the role that 3-A SSI in the food and dairy industry.

Speakers: Tim Rugh, 3-A Sanitary Standards, Inc.; Dan Erickson, Harold Wainess and Associates.

Recommendations to the Executive Board:

1. Recognize that the 3-A Committee on Sanitary Procedures is a standing committee that is outlined in the bylaws and not a PDG.

Next Meeting Date: July 16, 2023, Toronto, Ontario, Canada.

Meeting Adjourned: 12:00 a.m., Sunday, July 31, 2022.

Chairperson: Carianne Endert-Klaasen (Chair) Michigan Department of Agriculture and Rural Development, Steven Sims (Vice Chair) United States Food and Drug Administration.

Committee to Control Foodborne Illness

Attendees: Ewen Todd (Chair), Michael Roberson (virtual), Dima Faour-Kingbell (virtual), Kari Irvin (virtual), Jack Guzewish (virtual), Laura Gieraltowski, Margaret (Meg) Kirchner, Phyllis Posy (virtual), Abebe Aberra, Suresh Pillai, Monica Garcia, Amaret (Amy) Simonne.

Visitor Present: Lucas Harrison (wants to become a member).

Number of Attendees: 13.

Meeting Called to Order: 08:03 a.m. Sunday, July 31, 2022.

Minutes Recording Secretary: Laura Gieraltowski.

Old Business: Ewen Todd gave a brief overview of CCFI and updates indicating that the Committee has been around since 1914, mainly in the production of investigation of foodborne disease issues. Ewen Todd will continue to be Committee Chair for another year. Michael Batz (Vice Chair) will be Committee

Chair next year but will head up the revision of the manuals. The Board has been requested for an update on the sales of the *Procedures to Investigate Foodborne Illness* Manual. *Journal of Food Protection* will be Open Access in Elsevier on September 1, 2022.

Two 2021 recommendations for the Board were submitted. CCFI recommends to the Executive Board that a virtual option be provided for all future committee meetings, especially in view of disabilities restricting attendance in person. The Board agreed. Virtual meetings may be held anytime throughout the year and all committees are encouraged to hold periodic meetings (virtually). IAFF plans to return to in-person committee meetings in 2022 and thereafter. Zoom or other options can be used as desired to include remote participants in the meetings. A projector, screen and WiFi will be provided in the meeting rooms.

CCFI continues to request that IAFF publications should be available freely on request to be competitive with other food safety and foodborne disease sources. The Board responded that there are contractual agreements in place that will affect our ability to provide the Foodborne or Waterborne Procedures manuals. The positive factor is that our current distribution method makes the manuals available for download to a worldwide audience.

CCFI continues to assess the needs and direction for revisions to “*Procedures to Investigate Foodborne Illness*” manual, 6th edition last published in 2011, and “*Diseases Transmitted by Foods* Manual (1982 2nd edition). “*Procedures to Investigate Waterborne Illness*” (2016, 3rd edition).

An approved survey of IAFF Members led by Ian Young and Ben Chapman to determine their food safety habits has been indefinitely postponed. Members of the committee can offer to continue these efforts.

Board Report from Emilio Esteban, Liaison to the Board: 3,000 attendees (80%); 80% of exhibitors at the meeting this year. He requested that members use the *IAFF Connect* App to communicate during the meeting. Diversity and Inclusion in mind when developing symposium agenda. Participate in mentor/mentee program. Programs to increase attendance at next year’s meeting (paying for travel costs, supporting childcare/eldercare). The meeting in 2023 will be held in Toronto, Canada. Reminder that participants will need a passport and the ArriveCan app, including COVID-19 tests before departure. Mentoring program board contact information will be sent to the committee. The Board has a list of mentors and mentees and match the mentors with a mentee and it’s up to the mentor to meet and develop the relationship. The IAFF Foundation may be able to provide funds for members will limited financial resources to publish. CCFI raised concerns about how the Ewen Todd Control of Foodborne Illness Award nominees are selected, and whether the published criteria were followed. This issue will be raised to the Board and recommend the process is more transparent on how the award nomination process works and the number of nominations that were received. Emilio suggested the committee also submit nominations.

New Business: Review the 2022 Symposium S24 Foodborne Disease Outbreak Update, Tuesday, Aug 2; all speakers are here in person at the conference. Other presentations and roundtables with speakers and convenors from CCFI.

Slide presentation from Ewen Todd on two relevant topics for the committee. The first was a review of study about salmonellosis and temperature in Melbourne, Australia. The authors found that warmer temperatures were associated with increased risk of notification. These findings suggest that notifications may increase with increasing temperatures, but the link to heavier rainfall was not established. In the second topic, a recent publication shows that *Bacillus thuringiensis* is a credible foodborne disease. *B. thuringiensis* is a spore-forming and associated parasporal body-forming organism that is used as an alternative to chemical pesticides in crops and forests. There are signs suggesting that residues of *B. thuringiensis* biopesticides on foods can elicit diarrheal illness in humans. A research topic to be further explored. There are two presentations at the 2022

IAFF Meeting on *B. thuringiensis* on gloves and in food (Barry Michaels and Xingchen Zhao).

Ewen C. D. Todd Control of Foodborne Illness Award. Members should seek out appropriate nominations from their colleagues who fulfill the criteria listed in Appendix 2 of the agenda, including participation in IAFF and CCFI activities.

Input to the Conference for Food Protection, Program Standards Committee. The CFP maintains “Crosswalk Requirements for Foodborne Illness Training Program – Standard 5” as part of the Voluntary National Retail Food Regulatory Program Standards. IAFF is referenced within this Standard, specifically as it relates to training references for investigating foodborne illness. Over ten years ago, CCFI committee member Michael Roberson provided the CFP Program Standards Committee the IAFF *Procedures to Investigate Foodborne Illnesses* manual. Currently, this manual is not an open access reference. Recommend to the IAFF Board that the Conference for Food Protection have access to the IAFF *Procedures to Investigate Foodborne Illness* and other manuals. If there is an update to the manuals, we recommend that IAFF off-sets some of the costs to updates to the manual to the CFP Program Standards Committee as a cost easing benefit for state and local regulators. IAFF should explore additional means to greater manual access to government entities at state and local regulators and public health partners.

NSF International Council of Public Health Consultants. Ewen Todd is the current academic representative but NSF is looking for someone who employed by a university with public health experience, especially relating to food and water safety to replace him. Looking for NSF Council Member representing academia. Needs to be willing to attend meetings in Ann Arbor.

Webinar ideas. Open discussion of webinar ideas for coming year. Of the 5 sponsored symposia and roundtables, 2 were recommended for webinar consideration by the program committee: Climate Change and Food Safety (Michael Bazaco) (since withdrawn) and Food Safety within Food Security in Africa (Adewale Olusegun Obadina). Also, Food Safety Innovation Lab Webinar – Responding to Food System Disruptions: Lessons Learned.

Program ideas for 2023 Meeting. The Committee reviewed program ideas for 2023 Annual Meeting. Some topics discussed or submitted in recent years: 1) Healthy People 2030, 2) FSMA impacts to foodborne illness, 3) Culture-independent diagnostic tests (CIDTs), 4) REP strains and repeat offenders, 5) Cruise ships/tourism and travel, 6) Consumption of frozen foods as ready-to-eat, at-risk populations, 7) Updates on hand sanitation, 8) COVID-19 impacts on disease reporting and surveillance: challenges, findings, and interpretations, 9) *Cronobacter*: should it be a reportable disease? 10) Role of crowd-sourced and social media data for foodborne illness detection and surveillance, 11) Drawing lessons from outbreaks towards prevention strategies (building on root cause discussion from prior years), 12) Food safety versus food waste (John Sanders and Meg Kirchner), 13) FDA’s final rule on food traceability (completed by November of 2022), what’s in the rule, what does it mean for outbreak investigations, what does it mean for farmers and retailers (Kari Irvin), 14) Outbreak update symposium again in 2023 (Kari Irvin, Laura Gieraltowski, Ewen Todd) [this has been a staple for many years but we have to ensure it draws an audience for the full 3 hours], 15) Food supply chain issues affecting food safety (Phyllis Posy and Michael Roberson), 16) Outbreak investigations and microbes in water [should this be only freshwater or also sea and brackish water?] (Phyllis Posy and Ewen Todd), 17) RT Crowd source data in outbreak investigations (Lucky Charms, Daily Harvest): challenges and draw backs, what has worked well, how to analyze data. (Meg Kirchner), Pandemics and food safety (Ewen Todd), 18) Impacts of Food Security on food safety, 19) Economic Issues and food safety, 20) Challenges of ingredient supply and packaging supply with food safety issues, 21) Expert witness cases (Ewen Todd).

In all proposed RTs or symposia, topics should be checked for if, or when, they were previously done and which PDGs would be collaborators. Each of these needs a champion to initiate the process and move it along.

For the Toronto meeting, we are likely to have travel approval for Canadian attendees. We can make an effort to reach out for possible Canadian collaborators, e.g., Public Health Agency of Canada, Canadian Food Inspection Agency, and Health Canada, as well as universities and industry.

Zoom virtual option. CCFI appreciated the virtual option for the committee meeting in 2022. Recommend same time 0800-1000 next year for the CCFI meeting.

Recommendations to the Executive Board:

1. Recommend Ewen Todd continue for one more year as Chair of CCFI. Vice Chair Michael Batz will be Chair next year.
2. Recommend to the Board that the Conference for Food Protection have access to its Procedures manuals these manuals, including any proposed updates to the manuals. It is also recommended that IAFFP off-sets some of the costs for these manuals to the Program Standards Committee to help keep state and local regulators active in this field. IAFFP should explore ways to get more manuals to government entities at state and local regulators and public health partners.
3. Based on awareness of awardees over the last six years, CCFI raised concerns about how the Ewen C.D. Todd Control of Foodborne Illness Award nominees are selected, and whether the published criteria were followed. The purpose behind the award was to recognize those with a lifetime history of epidemiology in the investigation and control of foodborne illness and active in IAFFP Committees including the CCFI.

Next Meeting Date: Sunday, July 15, 8:00-10:00 Eastern Time, Toronto, Ontario, Canada.

Meeting Adjourned: 9:30 a.m. Eastern Time, Sunday, July 31, 2022.

Chairperson: Ewen Todd.

Constitution & Bylaws Committee

Attendees: Jennifer Quinlan, Donald Schaffner, Kathy Glass, Jenny Scott, Steve Murphy, David Tharp.

Meeting Called to Order: 9:05 a.m. Sunday, July 31, 2022.

Minutes Recording Secretary: Donald Schaffner.

Old Business: The committee unanimously approved the 2021 minutes. The motion to approve was by Kathy Glass, seconded by Jenny Scott. The committee discussed the status of the 2021 constitution and bylaws recommendation to the executive board. The following paragraph summarizes those changes which we anticipate will be voted upon at this year's 2022 business meeting.

There are six (6) changes to the Bylaws and one (1) change to the Constitution. The change to IAFFP's Constitution depends on acceptance of Bylaws Change #2 being accepted so we expect that the Bylaws changes will be voted on before the Constitution change.

Bylaws Change #1 provides the option for the Executive Board to establish Councils. Bylaws Change #2 moves Awards oversight to a "free-standing" Awards Committee that follows the structure of most other Special Committees. Previously, the Awards were under the purview of the Past Affiliate Council Chairperson who served as the Awards Committee Chairperson. Bylaws Change #3 makes minor revisions to the language related to the Black Pearl Award to clarify the process. Bylaws Change #4 rewrites the section related to the Fellows Selection Committee to be consistent with the Black Pearl Selection Committee. Bylaws Change #5 changes the language to allow the Nominating Committee Chairperson to be announced in the IAFFP Report or elsewhere. Bylaws Change #6 directs Members to the IAFFP office if they need help joining a PDG. Constitution Change #1 that removes the responsibility for IAFFP Awards from the Affiliate Council.

The committee also voted to unanimously approve Don Schaffner to serve as Vice Chair beginning July 31, 2022.

New Business: Steve Murphy brought to the attention of the committee a distinction regarding the differences in the rules governing the ability of honorary life members vs retired members to run for executive board office. As per the current bylaws, honorary life members are not allowed to run for office. The relevant section of the bylaws are 1.b.3.2 and 1.b.4.2: "3.2. Retired members shall be entitled to vote and hold office. They may serve on committees, as Affiliate delegates and as appointed representatives of IAFFP. 4.2 Honorary life members may not hold office in IAFFP, but may serve on committees, as Affiliate delegates and as appointed representatives of IAFFP."

Recommendations to the Executive Board:

1. The committee recommends that the Executive Board discuss the status of Honorary Life Members versus Retired Members and their ability to hold Executive Board office, and if they see fit direct the Constitution and Bylaws Committee appropriately.

Next Meeting Date: July 16, 2023, Toronto, Ontario, Canada.

Meeting Adjourned: 9:37 a.m.

Chairperson: Jennifer Quinlan.

Foundation Committee

Attendees: Mickey Parrish, Isabell Walls, Mark Davis, Kelly Stevens, Barb Masters, Claire Murphy, Ben Chapman, Fred Breidt, Dane Bernard, Gary Acuff, Wendy White.

Board/Staff Present: Michelle Danyluk, Emilio Esteban, Ruth Petran, Mark Carter, Manpreet Singh, Lisa Hovey, David Tharp.

Visitors/Advisors: Alvin Lee, Kathy Glass, Alejandro Mazzotta, Don Zink, Jenny Scott, Neil Bogart, Gale Prince.

Number of Attendees: 25.

Meeting Called to Order: Wednesday, Aug. 3, 2022, 7:32 a.m. Eastern Time.

Minutes Recording Secretary: Wendy White.

Chairperson, Gary Acuff, called the meeting to order and appointed Wendy White the Recording Secretary. The agenda and the 2021 meeting minutes were reviewed; Barb Masters moved to accept both, which was seconded by Mickey Parrish; the motion passed.

David Tharp gave the IAFFP Foundation financial report, noting that investment gains lead to an increase from \$2.45M to \$3M, from Aug 2020 to Aug 2021. Investment losses contributed to a slight decrease to \$2.9M, as of Aug 2022. This year, there is an anticipated to be a larger expenditure as many travel recipients that couldn't attend in 2020 and 2021 were able to attend this year's meeting. The budget for FYE August 31, 2023, was reviewed. David discussed Gary's announcement of the "4 for 40" initiative, during the Opening Session on Sunday night. The goal is to increase the capital balance to \$4M in honor of the Foundation's 40th anniversary. Currently, pre-meeting contributions have been good (up from the previous two years), meeting donations were at \$32K, plus Katie Swanson's donation of \$10K, and \$7K raised by the silent auction. It was noted that there was a marked increase in general donations when Katie's \$10K contribution was announced via email blast, after the Business Meeting on Tuesday.

There was discussion on increasing IAFFP membership dues and caution expressed by some members that dues are a hardship for those in developing countries and in counties with an unfavorable exchange rate. Affiliates from developing counties have appealed to the Foundation for IAFFP member fee support. There were suggestions on allowing members to purchase additional memberships for others, either in the form of a "certificate" they can distribute or a pool of memberships that could then be distributed to those in developing countries (possibly administered by the affiliates in those areas). There was also discussion regarding increasing the Sustained Member levels or adding a tier above Gold.

Old Business: Gary discussed the different future initiatives that will be added as part of the 4 for 40 program. Next year, we plan to pilot the Dependent Care Grant, which would allow members to apply and be approved prior to the meeting, then submit receipts (up to \$500) to the Foundation for reimbursement. Mark, Isabel, Dane, and Claire are working on the criteria for that program. We'll also start moving forward with the European Food Safety Award. We plan to obtain sponsors to reimburse the Foundation and will allow the European Planning Committee to develop the criteria and have responsibility for allocating that award. Future initiatives are being developed and include the Professional Development Grant (Don, Vickie, Wendy), International student research exchange program, and the *JFP* Article Processing Charge (APC) grant for authors for developing economies (Alvin, Gary).

New Business: There was no new business.

Recommendations to the Executive Board:

1. Recommend inviting Laura Strawn, Virginia Tech, as a member of the Foundation Committee (2023-2026).
2. Recommend approving the Foundation's Dependent Care Grant to start in 2023.
3. Recommend approving the establishment of European Food Safety Award(s) to start in 2023.
4. Recommend approving the Professional Development Grant, to be established at a future date.
5. Recommend approving the International Student Research Exchange Program, to be established at a future date.
6. Recommend approving the *JFP* Article Processing Charge (APC) grant, to be established at a future date.

Next Meeting Date: July 19, 2023, Toronto, Ontario, Canada.

Meeting Adjourned: 8:35 a.m. Eastern Time.

Chairperson: Gary Acuff.

Nominating Committee

Attendees: Katie Swanson (Chair).

Board/Staff Present: David Tharp.

Meeting Called to Order: Sunday, July 31, 2022.

Old Business: None.

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

Next Meeting Date: Sunday, July 16, 2023, Toronto, Ontario, Canada.

Chairperson: Katie Swanson.

Past Presidents' Committee

Attendees: Gary Acuff, Jim Dickson, Jeff Farber, Katie Swanson, Linda Harris, Don Schaffner, Stan Bailey, Vickie Lewandowski, Gale Prince, Kathy Glass, Mickey Parish, Jenny Scott, Lee-Ann Jaykus, Isabell Walls, Bob Brackett, Kali Kniel.

Board/Staff Present: David Tharp.

Number of Attendees: 17.

Meeting Called to Order: 1:06 p.m. Sunday, July 31, 2022.

Minutes Recording Secretary: Kali Kniel.

Old Business: The paper on the Black Pearl award has been published in *Food Protection Trends*.

New Business: No new business was suggested. Discussions centered around the update by the Executive Director, including IAFP finances, attendance at the 2022 Annual Meeting, the acronym IAFP and IFPA, and the DEI council.

Recommendations to the Executive Board:

1. This committee is enthusiastic about the work of the DEI council and recommends that the board strive for transparent gathering and use of information provided in a timely manner by the DEI Council to the Executive Board.

Next Meeting Date: Sunday, July 16, Toronto, Ontario, Canada.

Meeting Adjourned: 1:59 p.m. Eastern Time.

Chairperson: Kali Kniel.

Webinar Committee

Attendees: Kaitlyn Casulli (Vice Chair), Douglas Marshall, Eric Moore, Mary Yavelak, PC Vasavada, Claire Murphy.

Staff Present: Dina Siedenbug.

Meeting Called to Order: By Kaitlyn Casulli on 7/31/22 at 1:00 p.m. Eastern Time.

Old Business: 2021 Minutes were approved.

Review of Recent Webinars:

2021 20 webinars presented

2022 YTD 16 webinars presented

March – June is heaviest period for webinars, presumably due to notice of non-acceptance of Annual Meeting symposia proposals. Encourage PDGs to consider offering more webinars in the fall.

Action Items: Encourage more co-PDG sponsored webinars.

Put together resources (one pager, webinar) on "How to Submit a Webinar" IAFP to update slide deck examples and good presentation pointers. Invite selected authors of *FPT* and *JFP* to do paper Q/A webinars

Recommendations to the Board:

1. Consider term limits on Webinar Committee membership
2. Suggest 3-year terms, with opportunity for reappointment for an additional term if active and interested

Meeting Adjourned: 2:30 p.m. Eastern Time.

Advanced Molecular Analytics PDG

Attendees: Jasna Kovac (Chair), Joelle Salazar (Vice Chair), Kevin Gannon, Laura Rolon, Wan Zhan Lee, Daniel Smieszek, Nikki Shariat, Gabriel Sanglay, Karen McWilliam, Karen Pietrzen, Diana Stewart, Cameron Parsons, Larry Steenson, Kellie Burris, Hany Anany, Jesse Miller, Catherine Stewart, Xingchen Zhao, Kayla Kimble, Taejung Chung, Marysabel Mendez Acevedo, Johnathan Likens, Anru Shen, Chao Wang, Deborah Briese, Raghavendra Amachawadi, Peter Evans, Ava Weyrich, Gabriella Gephart, Heather Garcia, Paul Morin, Sandra Tallent, Patrice Bonny, Lijun Hu, Guodong Zhang, Lawrence Goodridge, Iain George, Rachel Binet, Eric Stevens, Xiangwu Nou, Edward Dudley, Padmini Ramachandran, Emily Forauer, Tina Caskey, Christophe Quiring, Hailey Davidson, William Botschner, Vannith Hay, Dharamdeo Singh, Yutong Wang, Rebecca Anderson, Rosa Heydenreich, Claudia Coronel-Aguilera, Shuopeng Yang, Megan Young, Ruth Timme, Maurisa Mansaray, Michael Fang, Maria Hoffmann, Francis Muchaamba, Beilei Ge, Catherine Rolfe, Tamara Walsky, Hiroki Abe, Nahla Eltai, Alejandro Garrido, Sanjay Gummalla, Joshua Owade, Tlaleo Marole, Byron Brehm-Stecher, Lang Yao, Keith Lampel, Francisco Diez-Gonzalez, Minji Hur, Jani Holopainen, Lauane Araujo, Flor Ortiz Martin, Mike Clark, Sonia Singh.

Number of Attendees: 78.

Meeting Called to Order: 9:00 a.m. Eastern Time, Sunday, July 31, 2022.

Minutes Recording Secretary: Xingchen Zhao, Laura Rolon.

Old Business: The leadership reviewed the antitrust guidelines for IAFP meetings and members approved the 2021 AMA PDG meeting minutes.

New Business: The leadership was introduced: Jasna Kovac assumed the AMA PDG Chair position, and Joelle Salazar assumed the AMA PDG Vice Chair position. An overview of the 2022 IAFP Annual Meeting symposia that the AMA PDG sponsored was presented. The AMA PDG sponsored eight symposia proposals, and 6 of these were accepted (75%). Among the six accepted proposals, AMA PDG was the primary sponsor for three symposia. Applied Laboratory Methods PDG was a frequent co-sponsor of AMA PDG-sponsored symposia. The meeting updates from the Executive Board were shared, including the expected 2022 IAFP Annual Meeting attendance and exhibitors, the opportunity to donate to the IAFP 4 for 40 campaign, the transition of *JFP* to Elsevier, and the ongoing Mentor Match program. The guidelines for proposal symposium/workshop/roundtable proposal development were outlined. The deadline (October 4, 2022) for the submission of proposals is October 4, 2023. Each proposal needs to be sponsored by 2 PDGs, and members should encourage the involvement of international institutes and students. Symposia should include speakers from government, industry and academia to gain a broader perspective in the sessions. Members were encouraged to share their ideas for symposia/workshop/roundtable proposals for the 2023 IAFP Annual Meeting. Attendees brainstormed potential topics of interest for the 2023 IAFP Annual Meeting symposia, roundtables, and workshops. Topics included: (i) integrated use of molecular analytics, social media and telehealth systems to predict outbreaks; (ii) use of WGS/epidemiologic data for source attribution; (iii) logistics of successful international collaborations and approaches to the assessment of existing resources and capabilities; (iv) integration of phenotypic and molecular methods for assessment of virulence; (v) use of big data for risk assessment – how to identify data that is biologically relevant; (vi) how to effectively incorporate junior scientists and scientists from diverse backgrounds into large-scale projects; (vi) how to get creative with funding (e.g., doing more with less); (vii) use of transcriptomics; (viii) how to get significant biological information from risk assessment and how to use it more effectively. Jasna and Joelle shared a link to an online poll to identify time for the development of AMA-focused symposium/workshop/roundtable proposals.

Recommendations to the Executive Board:

1. AMA PDG recommends the approval of newly elected Joelle Salazar as the AMA PDG Vice Chair.
2. Consider developing a central theme (e.g., a special message/series of topics) for each IAFP Annual Meeting that would communicate the current goals/aspirations of the Association.

Next Meeting Date: July 16, 2023, Toronto, Ontario, Canada.

Meeting Adjourned: 11:00 a.m. Eastern Time, Sunday, July 31, 2022.

Chairperson: Jasna Kovac.

Animal and Pet Food Safety PDG

Attendees: Beilei Ge (Chair), Maria K, Cheryce Joyner, Thomas (Tom) Black, Ravi Jadeja, James Gong, Mary Grace Danao, Jeff Nauseda, Michele Sayles, Kizito Nishimwe, Kizito Nishimwe, Samoa Asigau, Jeffrey Kornacki, Nikkie Vazquez, Jason Scheffler, Bill Potter, Jessica Brown, Judith Sipple, Sarah Kozak-Weaver, Alexandra Friloux, Adrienne Shearer, Amanda Jones, Gregory Siragusa, Charles McGuill, Heather Garcia, Anru Shen, Saif Arabi, Caio Carvalho, Maurisa Mansaraj, Peter Taormina, Weilin Shelver, Ellen Evans, Deepa Thiagarajan, Kevin Edwards, Shaohua Zhao, Zachary Kuhl, Nathan Mirdamadi, Christopher Mains, Sally Wickramaratne, Rick Kralj, Thomas Taylor, Samantha Shinbaum, Scott Goltry, Jordan Nehls, Yaxi Dai, Jennifer van de Ligt, Savana Everhart, Guodong Zhang, Felix Osafo, Kevin Edwards, Adrienne Shearer.

Board Members Present: Emilio Esteban.

Number of Attendees: 51.

Meeting Called to Order: 1:00 p.m. Eastern Time, Sunday, July 31, 2022.

Minutes Recording Secretary: Samuel Kiprotich.

Old Business: The chairperson provided recaps from the organizational meeting held on November 30, 2021, including PDG name, officers/elections held, mission statement, scope, recommendations made to the board on welcoming papers in the APFS track in *JFP*, and mentioned that APFS posters are already seen at IAFP 2022 meeting.

New Business: The chairperson welcomed all attendees to this inaugural meeting, introduced elected officers, appointed recording secretary (student liaison), orally reviewed the antitrust guidelines, and read IAFP 2022 Annual Meeting announcements from the IAFP Executive Board.

The chairperson encouraged members to use the IAFP Connect and opt in for messages from the PDG community. She mentioned the news on *JFP* becoming an open access journal starting in January 2023 partnering with Elsevier. She also mentioned the Mentor Match program and opportunities for PDGs to host year-round webinars.

A list of pertinent symposia/roundtables/abstracts at IAFP 2022 was shown, mostly from the Low Water Activity Foods PDG. Poster sessions have pertinent abstracts.

Two technical presentations were given, one by Dr. Michele Sayles, Executive Director for Food Safety and Quality at Diamond Pet Foods, on Current Pet Food Safety Concerns, and the other by Jessica Brown, Ph.D. Student at University of Wisconsin, on *Salmonella* in Feed: Current Perspectives.

The Chairperson read a synopsis written by Dr. Xi Li, Regulatory Microbiologist at FDA, on Final GFI #245: Hazard Analysis and Risk-Based Preventive Controls for Food for Animals, Published in July 2022.

Symposium/Roundtable/Workshop ideas for IAFP 2023 were discussed by the whole group. The chairperson reminded about the DEI principals, involvement of international and next generation of young scientists, and 2 PDG sponsorship for each proposal. These ideas were distilled into 7 topics with potential organizers/speakers/co-sponsoring PDGs for further development. A virtual meeting is planned in August or September to solidify these topics for proposal submission by October 4, 2022. Broad topics included mycotoxin, physical hazards, hygienic design and sanitation, processing technologies, new ingredients, raw pet food safety, WGS and metagenomics.

Recommendations to the Executive Board:

1. Recommend approval of Dr. Beilei Ge as Chair and Dr. Maria Ma as Vice Chair of the APFS PDG as elected by the PDG members.
2. Recommend scheduling future year's PDG meetings for the APFS PDG and the Low Water Activity Foods PDG to NOT occur concurrently.
3. Recommend making it smoother for members to join this PDG. Many were confused on how to do that. Would those with badges scanned at the meeting join the PDG automatically? There is no "join" button from the IAFP Connect community link. The website for this PDG does not provide info on how to join as for other PDGs which is to "Edit profile."
4. Recommend reaching out and fully engaging Canadian colleagues for the IAFP 2023 meeting in Toronto.

Next Meeting Date: July 16, 2023, Toronto, Ontario, Canada.

Meeting Adjourned: 3:00 p.m. Eastern Time, Sunday, July 31, 2022.

Chairperson: Beilei Ge.

Applied Laboratory Methods PDG

Attendees: Joseph Meyer (Chair), Daniel DeMarco (Vice Chair), Jesse Miller, Rocelle Grabarek, Tina Caskey, Molly Mills, Glen Feller, William Robertson, Alejandro Garrido, Jessica Danzeisen, Rachel Binet, Sandra Tallent, Takiyah Ball, Gabriel Sanglay, Cheryce Joynes, Keith Lampel, Tom Sidebottom, Gregory Siragusa, Yutong Wang, Mike Clark, Christophe Quiring, Zachary Kuhl, Leslie Thompson-Strehlow, Jihun Kang, Laurie Post, Kristen Hunt, Amanda Brookhouser-Sisney, Mick Bosilevac, LeAnne Hahn, Florence Wu, Ryan Maus, Chloe McGovern, Tina Caskey, Maurisa Mansaray, Patrick Bird, Kyle McCaughan, Jeffrey Kornacki, Alex Tudor, Paul Morin, Laura Howard, Joy Battles, Douglas Marshall, Charles McGill, Jessica Brown, Hany Anany, Karen Pietzen, Karen McWilliams, Kaidi Wang, Lang Yao, Mu Ye, Hailey Davidson, Rebecca Anderson, William Botschner, Erin Crowley, Mark Muldoon, John Jarosh, Arlette Shazer, Tlaleo Marole, Heather Garcia, Anru Shen, David Legan, Sri Priya Agaram, Aaron Uesugi, Pamela Wilger, Sarah Sanderson, Jennifer Miller, Lauane Araujo, Kangming Ma, Karen Beers, Megan Young, Patricia Rule, Thierry SOFIA, Robert Salter, Nisha Corrigan, Julie Weller, Rafael Ferreira, Larry Steenson, Flor Ortiz Martin, Ava Weyrich, Gabriella Gephart, Ron Sarver, Evan Henke, Daniel Smieszek, Kellie Burris, Shuang Wu, Alexandra Paulet, Xiangwu Nou, Dino Demirovic Holmquist, Aaron Huckabee, Yanyan Huang, Derrick Tanner, Reginald Benitez, Christopher Snabes, Vannith Hay.

Board Member Present: Mark Carter.

Number of Attendees: 95.

Meeting Called to Order: 3:15 p.m. Eastern Time, Sunday, July 31, 2022.

Minutes Recording Secretary: Molly Mills.

Old Business: Reviewed Anti-Trust Guidelines and approved the 2021 minutes. Announced Dan DeMarco confirmed as the PDG Vice Chair. Reviewed 2022 symposium and roundtable sessions accepted and in the program. Review 2022 symposium with ALM PDG as the secondary sponsor.

Updates on the Validation and Verification Interest Group activities and subgroups by David Legan and subgroup leads. This group has published three *Food Protection Trends* articles on this subject in the past years and has a matrix evaluation level assessment reference tool available in the Food Protection member resources. Interest Group has four active subgroups as follows: Method Equivalence, Webinars, Protocols for Inoculum Preparation, and Article submission. Update on the Webinars subgroup was given by Amanda Brookhouser-Sisney. She updated that the subgroup is planning to host two webinars this coming year. One will be background information and the second will be on using the assessment tool and execution of a study. Jesse Miller recommended that the PDG should consider a workshop on this topic.

Next update was from a subgroup led by Arpan Bhagat on handling and storage of enrichments and in-process materials and media. There is a survey planned to gather information on inoculum preparations, which will be compiled and shared.

Chair and Vice Chair presented awards to the V & V Interest Group and subgroup leaders.

New Business: Asked for ideas for 2023 workshops and sessions. Preliminary ideas gathered and will be shared through *IAFP Connect*.

Recommendations to the Executive Board:

1. Request to shift the Annual IAFP Meeting one day later (start PDG meetings on Monday).
2. Consider options to change meeting format to allow more sessions. (This was out of frustrations that only about 50% of recommended sessions are accepted.)
3. Sign antitrust as you collect your registration and badge. Or sign antitrust when you are scanned entering a PDG meeting.

4. Make the IAFP Meeting App available for connection online. (for easier reading and calendar planning).

Next Meeting Date: July 16, 2023, Toronto, Canada.

Meeting Adjourned: 4:45 p.m. Eastern Time, Sunday, July 31, 2022.

Chairperson: Joe Meyer.

Beverages and Acid/Acidified Foods PDG

Attendees: May Yeow (Chair), April Bishop (Vice Chair), Yuqian Lou, Keith Ito, Toni de Senna, Bet Wu Alvarado, Artistides Barahona Andrade, David Anderson, Ryan Mills, Wilfredo Ocasio, Jeannie Kim, David French, Kirk Dolan, Mark Carter, Catherine Rolfe, Ashwini Wagh, Hidetake Esaki, Jena Roberts, Raghu Ramaswamy, Lorilyn Ledenbach, Alex Puerta-Gomez, Leena Griffith, Lauane Araujo, Christie Cheng, Erdogan Ceylan, Mu Ye, Ron van Santen, Deborah Briesmeister, Saurabh Kumar, Julia Fukuba, Sarah Sanderson, Fred Breidt, Carla Schwan, Luciana Salles, Peter Taormina, Abdullatif Tay.

Number of Attendees: 36.

Meeting Called to Order: 1:07 p.m. Eastern Time, Sunday, July 31, 2022.

Minutes Recording Secretary: April Bishop, Bet Wu, and May Yeow.

Old Business: The 2021 Beverages and Acid/Acidified Foods PDG meeting minutes from the June 17, 2021 virtual meeting were reviewed. A suggestion was made by Lori Ledenbach to amend April's title under "Attendees" list from Chair to Vice Chair. A list of approved proposals sponsored and co-sponsored by the Beverages and Acid/Acidified Foods PDG for the 2022 meeting were shared with the PDG members and session information (include date, time, and location) was listed as a reminder for those who are interested to attend.

New Business: Bet Wu (Student Liaison) shared the following updates from Student PDG with the PDG members: (1) Invite members to get involve as an invite scientist to connect students with food professionals in academia, industry, and government, (2) Invite members to join as a competition judges for the 3-minute thesis competition, (3) Include the Student PDG as a session co-sponsor. The floor was then opened for Vice Chair nomination. Dr. Erdogan Ceylan was nominated as a candidate for Vice Chair. April Bishop (Vice Chair) and May Yeow (Chair) shared with the PDG members that we still have time to self-nominate or nomination other(s) for the upcoming Vice Chair. An official voting ballot for Vice Chair will be send out to the PDG members after the IAFP meeting. In the meeting, the PDG members discussed whether or not to change the PDG name because most members would think of acid and acidified foods rather than beverages. It was recommended by the PDG members, perhaps, to review the mission statement to provide the scope of beverages and acid/acidified Foods. May shared the list of previous proposal ideas to the PDG members and conducted a voting process to narrow the list down to the top three topics of interest for further discussion. Three new topics were also suggested by the PDG members. During the meeting, the PDG members were self-volunteered and participated in one of those six topics of interest. Each topic lead reported out the potential proposal titles, contents, and formats. Those six topics were delegated to the PDG members to further develop for 2023 Symposia/Roundtable.

Recommendations to the Executive Board:

1. Review the mission statement for Beverages and Acid/Acidified Foods PDG to define the scope of products included in this PDG.

Next Meeting Date: July 16, 2023, Toronto, Ontario, Canada.

Meeting Adjourned: 3:08 p.m. Eastern Time, Sunday, July 31, 2022.

Chairperson: May Yeow.

Dairy Quality and Safety PDG

Attendees: Sarah Murphy (Vice Chair), Neil Bogart (Secretary), Timothy Rugh, John Allan, Dino Demirovic Holmquist, Annie Piepenhagen, Joyce Wert, Steven Sims, Greg Janzow, Aljosa Trmcic, Claudia Coronel-Aguilera, Megan Jensen, Danielle Mayer, Ryan Simmons, Dave Blomquist, Sharon Wilson, Brian Izdepski, Tim Lott, Daniel Erickson, Amy Rhodes, Don Pagh, Marcia Murphy, Matthew Hahs, Flor Ortiz Martin, Chloe McGovern, Daniel Schaffer, Tina Caskey, Liang Bennett, Abigail Snyder, Arnaud Fourmond, Frederic Martinez, Anne Bigalke, Barbara Grayes, Luke Qian, Dharamdeo Singh, Pete Kennedy, Greg DeVivo, John Mills, Shuopeng Yang, Minto Michael, Erin Headley, Guodong Zhang, Steve Walker, Felix Osafo, Jeffrey Kornacki, Jaakko McVey, Steve Murphy, Elliot Ryser, Kathy Knutson, Gurpreet Kaur Chaggar, Emily Forauer, Preetha Biswas, Dan Belina, Kolawole Banwo, Kathleen Glass, Angelica Abdallah-Ruiz, Weilin Shelver, Larry Steenson, Alejandro Mazzotta, Annmarie Blake.

Board Member Present: Mark Carter.

Number of Attendees: 61.

Meeting Called to Order: 1:00 p.m. Sunday, July 31, 2022.

Minutes Recording Secretary: Neil Bogart.

Old Business: Sarah Murphy welcomed members, reviewed the Antitrust guidelines, the 2021 Minutes were approved (David Blomquist, Karie Underclose) and finished with the review of boards response to previous years recommendation.

New Business: Timothy Lott, Student Liaison, opened with the Student PDG Update. Three 15 minute industry updates were provided. Tim Rough, Executive Director of 3-A, gave an overview of what is 3-A and some potential collaboration with the PDG. Jeff Kornacki and Elliot Ryser gave an update on the new "Standard Methods for the Evaluation of Dairy Products" (SMEDP) 18th Edition. David Blomquist and Neil Bogart introduced a new UV light technology for the evaluation of clean, the Bactiscan. Sarah then led the ideation and development of potential topics for 2023.

Recommendations to the Executive Board:

1. Sarah Murphy recognized as the incoming Vice Chair.

Next Meeting Date: July 16, 2023, Toronto, Ontario, Canada.

Meeting Adjourned: 3:00 p.m. Eastern Time, Sunday, July 31, 2022.

Chairperson: Sarah Murphy, Vice Chair filled in for Josie Greve-Peterson.

Data Management and Analytics PDG

Attendees: Barbara Kowalczyk (Chair), Sarah Murphy (Vice Chair), Daniel Weller (Secretary), Laure Pujol, Bradley Marks, Aftab Siddique, May Yeow, Ganyu Gu, Michala Krakowski, Devin LaPolt, Janet Buffer, Dimitri Tavernarakis, Sarita Raengpradub, Brendan Ring, Gregor Matian, Alda Pires, Tim Lott, Sriya Sunil, Ruixi Chen, Luke Qian, Aljosa Trmcic, Chris Jordan, Dave Hill, Austin Welch, Michelle Keener, Alex Puerta-Gomez, Ian Hildebrandt, Hardik Vyas, Devin Daeschel, Yanyan Huang, Hiroki Abe, Jiyeon Yi, Clare Narrad, Tanesia Cole, Claire Murphy, Ryan Mills, Nanje Gowda, Kali Siliveru, Thierry Sofia, Claire Zoellner, Abigail Snyder, Long Chen, Amarat Simonne, Jesse Miller, James Barkley, Charles Bakin, Ruth Timme, Padmini Ramachandran, Ariel Garsow, Harmeen Prasher, Hui-Erh Chai, Akhila Vasan, Madison Goforth.

Board Member Present: Mark Carter.

Number of Attendees: 54.

Meeting Called to Order: 9:00 a.m. Eastern Time, Sunday, July 31, 2022.

Minutes Recording Secretary: Daniel Weller.

Old Business: Not applicable as this is the first in-person meeting of the PDG.

New Business: We started the first annual, in-person PDG with an introduction of the PDG's mission and history (Barbara Kowalczyk). We then moved forward with brief introductions. After introductions, we reviewed the antitrust guidelines before moving on to IAFP executive board announcements (from Mark Carter). Key updates centered on the importance of *IAFP Connect*, and reminders about 2023 in Toronto (e.g., to check passport and visa requirements, that COVID19 vaccines are mandated for entry to Canada). The student liaison then provided updates from the Student PDG (Claire Murphy); if members are interested in getting involved with the Student PDG activities (e.g., mentoring programs contact Claire Murphy at cmarik@vt.edu). We then reviewed the events at IAFP 2022 that the DMA PDG co-sponsored (there were four total).

Attendees were engaged in a discussion, through break-out groups, on data management and analytic needs for the IAFP community. Each break-out group then shared their ideas with the PDG. Most ideas focused on data integration; working with and addressing messy and dirty data; data sharing and ownership; and/or data translation and communication (e.g., storytelling). Other common themes included how to generate practicable outputs (visualizations and models) that can be used by companies with limited and/or by companies with ample resources, and how to identify data business needs and capabilities.

Afterwards we discussed how to best structure the PDG moving forward to best meet the PDG and wider IAFP needs. We first discussed how frequently we would like to meet. Suggestions were made for monthly, bimonthly, and quarterly. We settled on meeting bimonthly but recognized that this frequency could be increased or decreased as needed. We then discussed in break-out groups how and when to organize webinars (e.g., as part of the bimonthly meetings) and potential webinar ideas; these ideas were recorded in the Google sheet (<https://bit.ly/3zm7OxE>). One point of discussion was if the webinars were to support analytical skill development of the PDG members, or to support data management and use within the wider IAFP community. We determined that the webinars could support both aims.

We then moved forward with idea generation for symposium and roundtable for IAFP 2023. We started with a Word Cloud which will be posted in *IAFP Connect*. Top words included data standardization, management, and literacy as well as predictive modelling, spoilage, successes, digital decision management, data communication and translation. We then split into small break groups and reported back with these symposium ideas. We discussed ideas on how to best establish collaborations with other PDGs or with speakers. Ways discussed to do this included sharing your ideas in other PDG meetings and reaching out to the speakers from or leadership of the other PDG in-person while at the conference. Ideas and submission progress will be recorded in <https://bit.ly/3zm7OxE>.

We also discussed recommendations to the IAFP Executive Board and reminded attendees about symposium proposals and abstracts. Finally, it was announced that an election will be held for a new Secretary in spring 2023; at IAFP 2023 Barbara Kowalczyk will become Chair Emeritus, Sarah Murphy will become the new Chair and Daniel Weller will become the new Vice Chair.

Recommendations to the Executive Board:

1. Would it be possible to ensure that the time for this PDG meeting does not overlap the time of several related PDGs, such as the Advanced Molecular Analytics, Food Safety Assessment and Audit, Microbial Modelling and Risk Analysis.
2. Would it be possible for PDG Chairs to meet several times throughout the year (e.g., quarterly)?

Next Meeting Date: July 16, 2023, Toronto, Ontario, Canada.

Meeting Adjourned: 11:00 a.m. Eastern Time, Sunday, July 31, 2022.

Chairperson: Barbara Kowalczyk.

Developing Food Safety Professionals PDG

Attendees: Amit Morey (Chair), Jill Stuber (Vice Chair), Matt Moore, Makena Brand, Lauren Hamilton, Margarethe Cooper, Yutong Wang, Dharamdeo Singh, Ryan Matsuda, Samantha Shinbaum, Brittani Bedford, Veronica Stefanick, Shanice Krombeen, Margaret Moodispaw, Nigatu Atlaw, Annmarie Blake, Varalakshmi Sudagar, Chip Manuel, Alejandra Ramirez, Randy Kohal, Anuradha Punchihewage Don, KaWang Li, Dina Scott, Cheryce Joyner, Teresa Bergholz, Minji Hur, Brienna Anderson-Coughlin, Riya Magiya, Urvi Shah, Kolawole Banwo, Jordan Nehls, Gayatri Rajashekhar Dhulappanavar, Savana Everhart, Chris Rupert, Ian Hines, Katie Stolte-Carroll, Elizabeth Maeder, Emily Kingston, Emily Forauer, Hussein Mohamed, David Buckley, Qing Wang, Annmarie Blake, Urvi Shah, Kolawole Banwo, Alejandra Ramirez, Marina Redding, Ashley Rosanske, Varalakshmi Sudagar, Ian Hines, Hussein Mohamed, Lauren Hamilton, Makena Brand, Gayatri Rajashekhar Dhulappanavar, Yutong Wang, Dharamdeo Singh, Nigatu Atlaw, Dina Scott, David Buckley, Chip Manuel, Ryan Matsuda, Abigail Aba Mensah, Joshua Cassar, Conner McDaniell, Randy Kohal, Vishal Manjunatha, Brittani Bedford, Riya Magiya, Jaclyn Merrill, Esa Puntch, Mileah Shriner, Catherine Sander, Mairui Gao, Mrinalini Ghoshal, Jennifer Mydosh, Margarethe Cooper, Minji Hur, Brienna Anderson-Coughlin, Anuradha Punchihewage Don, Margaret Moodispaw, Christina Kessler, Richelle Beverly.

Board/Staff Present: Emilio Esteban.

Number of Attendees: 81.

Meeting Called to Order: 3:15 p.m. Eastern, Sunday, July 31, 2022.

Minutes Recording Secretary: Brittani Bedford, Dharamdeo Singh, Vishal Manjunatha.

Old Business: Matthew Moore welcomed everyone to the PDG. Matthew reported that he and Jill Stuber will stand in for Amit Morey (Chair), who was not able to attend for family reasons. Matthew then also welcomed the Student PDG Liaisons, and appointed them to work together as minutes recording secretaries: Brittani Bedford (Penn State), Dharamdeo Singh (University of Guelph), Vishal Manjunatha (Clemson). Brittani Bedford provided the Student PDG update regarding Meet your favorite food science, 3-minute thesis competition, and proposal submissions.

Emilio Esteban provided the Board Update. He noted the IAFP Foundation 4 for 40 initiative, which is pushing to raise 4 million dollars for the foundation. He also noted they are asking for ideas/input to use the 4 million dollars. Existing plans are to use the money for international students. He also noted the foundation plans to use raised funds to assist those from institutions that cannot afford article processing charges for publications in the *Journal of Food Protection*. He also noted the mentor matching program; mentorship for graduate students and young professionals. He also reminded participants to keep in mind, Diversity, Equity, and Inclusion in terms of proposals for events and fundraising. He also reminded people to begin to obtain necessary travel documents for IAFP 2023 in Toronto.

Matthew Moore informed the PDG members that two proposals were selected for the 2021 IAFP Annual Meeting. Six sessions in total were accepted, three with the PDG as primary and three as co-sponsor. Jill Stuber then led an ice breaker activity using the Mentimeter platform for smartphones to conduct a poll of which country everyone in attendance was from. The platform was tested to be used later in the meeting for real-time brainstorming input for session proposals.

New Business: Jill Stuber and Matthew Moore then led a roundtable titled "Is There a Yellow Brick Road in Food Safety?" The roundtable featured Emilio Esteban, Purnendu Vasavada, and Amy Parks. Numerous aspects related to career advice and lessons from the panelists' career paths were discussed, with a lot of audience engagement.

Matthew and Jill then led a brainstorm to discuss potential session proposal ideas using the Mentimeter platform while also engaging the audience for live discussion of potential topics. A number of topics were proposed. Chip Manuel mentioned a roundtable from a while ago with established food safety members discussing stories of non-compliance and other issues they have encountered in their careers, and the lessons learned. Another idea was for a session as a primer on considerations and issues in visa status related to a career in food safety. Brienna Andersen mentioned the idea of a session on professionally how one presents themselves to different audiences (academia, government, industry). Another proposal related to how to navigate ambiguous and/or unexpected job duties as a new professional. Numerous proposed ideas were also received on the Mentimeter platform, including: How to network in the food industry; How to judge the culture of a company before accepting a job; How younger professionals can get senior professionals in operations to value their opinion and trust what they say; among numerous other session ideas.

Jill and Matthew then announced a subsequent virtual meeting to further solicit and focus session ideas in September will occur, and encouraged attendance.

Recommendations to the Executive Board:

1. To appoint Jill Stuber as Vice Chair of the Developing Professionals PDG

Next Meeting Date: Sunday, July 31, Toronto, Ontario, Canada.

Meeting Adjourned: 5:15 p.m. Eastern Time, Sunday, July 31, 2022.

Chairperson: Jill Stuber (Vice Chair).

Food Chemical Hazards and Food Allergy PDG

None.

Food Defense PDG

Attendees: Neal Fredrickson (Chair), Kristin Schill (Vice Chair), Fred Soderstrom, Patricia Rule, Richard Jacobs, Daniel Bair, Rob Donofrio, Christina Wormald, Laura Howard, Joyce Wert, Amy Rhodes, Nitin Dhowlaghar, Raghu Ramaswamy, Patti Ross, William Lachowsky, Tania Martinez, Tony Jin, Romy Yu, Lauren DiMenna, Juhong Chen, Ryan Maus, Erin Ducko, Heather McLemore, Mark Kazmierczak, Jesse Miller, Hussein Mohamed, Tara Fandrich, Jessica Danzeisen, Enrique Zuniga, Kim Bingham, Joelle Williams, Tracey David, Marvin Mitchell, Jr., Deepa Thiagarajan, Manpreet Singh, Yvonne Masters, Shahram Ajamian, Amie Minor, Jacqueline Southee, Ahnna Schulte, Jennifer van de Ligt, Gale Prince, Carmen Cano, Brian Izdepski, Felix Osafo, Bet Wu Alvarado, Artistides Barahona Andrade, Robert Brackett, Kate Meck, Kolawole Banwo, Brian Perry, Susan Teegardin, Loralyn Ledenbach, Deon Mahoney, Anthony Pavic, Lucas Harrison, Paul Morin, Arlette Shazer, Varalakshmi Sudagar, Katie Swanson, Brendan Ring, Adejare Adegbuyi.

Number of Attendees: 62.

Meeting Called to Order: Sunday, July 31, 2022, 10:15 a.m. Eastern Time.

Minutes Recording Secretary: Christina Wormald.

Old Business: Neal Fredrickson reviewed the agenda and there were no additions or changes called for. Neal Fredrickson and Kristin Schill introduced themselves as chair and Vice Chair. Our agenda meeting minutes were approved by a motion submitted by Mark Kazmierczak. Next, Manpreet Singh, the incoming IAFP Secretary, addressed the attendees and provided an update from the Board, including a reminder that webinars are free to attend for all IAFP Members and a call for membership for the newly formed IAFP diversity, equity, and inclusion council. Dr. Singh discussed the publication transition to Elsevier and passport requirements for next year's upcoming IAFP Meeting in Toronto Canada. Neal Fredrickson then reviewed the anti-trust guidelines.

Neal Fredrickson reviewed the minutes from the 2021 Food Defense PDG meeting, and the minutes were approved by voice vote.

New Business: Neal Fredrickson and Kristin Schill were officially recommended and approved as Chair and Vice Chair. Gale Prince approved the motion and Mark Kazmierczak seconded the motion.

Next, Colin Barthel, FDA, provided an update of the status of implementation of the Intentional Adulteration (IA) Rule. In summary, the rule requires a food defense plan, and this plan follows a similar construct as a HACCP plan (analysis of risks, protection of the process, and managing those protections through a pre-planned strategy). This plan requires a vulnerability assessment, and training is required to be qualified to complete verification of this process. FSPCA training and awareness courses are free to access. Colin Barthel then introduced the Food Defense Plan Quick Checks that are currently being conducted (since August 2020) during scheduled food safety inspections for facilities that are subject to the IA rule, domestically and internationally. Visual inspection of facility's food defense plan for being complete, accurate, the presence of the vulnerability assessment, and a verification procedure will be conducted. Records will not be collected outside of the facility. Over 300 quick checks have taken place thus far. In the coming years, Food Defense Facility Assessments will take place at prioritized facilities by specially trained investigation staff. Training for the investigation staff is in development. Exemption from these rules will be conducted by state partners upon inspections of firms. In conclusion, findings from quick checks have determined that most firms recognize coverage status and have developed their food defense plans. Colin Barthel then asked the audience about their experience with Quick Checks and feedback was provided verbally.

Neal Fredrickson next led discussion of PDG communications, processes and resources. Neal Fredrickson shared *IAFP Connect* resources and tutorials for joining PDGs on *IAFP Connect*. Student Liaison Christina Wormald discussed student PDG opportunities for collaborations with Student PDG efforts.

Kristin Schill then discussed last year's proposals and this year's sessions. There are two symposia being held in 2022. The first symposium is entitled *Food Defense: Approaches to Risk Mitigation* on Monday August 1st at 3:45 p.m. in room 405. This symposium includes *The National Security Memorandum – Strengthening the Security and Resilience of United States Food and Agriculture across State, Local Tribal and Territorial and Private Sector Partners, Protecting U.S. Agricultures at Border Crossings, and Food Supply Chains – how would Food Defense be Affected by African Swine Fever*. The second symposium is entitled *Cyber Attacks on the Food Industry: Virtual Threats with Real Consequences* at 1:30 p.m. in room 317-318. This symposium includes *The Cyber Risks to Food Manufacturing and Public Health, FBI Support to the Food and Agriculture Sector on Cyber Threats, and How the Food and Agriculture Industry is Collaborating on Cybersecurity*.

The group then discussed potential session topics for IAFP 2023 in Toronto. Together, the PDG came up with the following topics during the discussion: 1) Temporary Hires and Food Defense Implications, 2) The HR Implications of Food Defense, 3) The Foreign Implications of IA: How to make training opportunities and regulation information available around the world 4) Food Defense for All: Curriculum discussion surrounding implementing IA into PC or other FDA mandated curriculum. Proposals are due October 4, 2022.

Kristin Schill suggested conducting more frequent meetings for the Food Defense PDG. The audience voted and agreed upon quarterly meetings. Time periods will change to yield participation

from international members. Neal Fredrickson provided the members to self-nominate as the Secretary of the Food Defense PDG for 2023.

Recommendations to the Executive Board:

1. Neal Fredrickson and Kristin Schill have been recognized and declared as Chair and Vice Chair of the Food Defense PDG.

Next Meeting Date: July 13, 2023, Toronto, Ontario, Canada.

Meeting Adjourned: 12:00 p.m. Eastern Time, Sunday, July 31, 2022.

Chairperson: Neal Fredrickson.

Food Fraud Prevention PDG

Attendees: Steven Gendel (Vice Chair), Alia Blais, Takiyah Ball, Jonathan Basha, Bertrand Emond, Tara Fandrich, Enrique Zuniga, Tracey David, Teresa Fox, Deepa Thiagarajan, Weilin Shelver, Nicole Prentice, Fred Soderstrom, Akhila Vasani, Richard Jacobs, Cameron Parsons, Manpreet Singh, Ron Sarver, Jacqueline Cordova, Jani Holopainen, Susan Teegardin, Neal Fredrickson, Kolawole Banwo, Rachel Stiening, Lone Jespersen, Adeniyi Odugbemi, William Lachowsky, Sara Mortimore, Rafael Ferreira, Steven Sklare.

Number of Attendees: 30.

Meeting Called to Order: 1:00 p.m. Eastern Time, Sunday, July 31, 2022.

Old Business: The PDG Approved the minutes of the previous meeting and reviewed the list of scientific sessions co-sponsored by the PDG in the 2022 Annual Meeting.

New Business: In the absence of the PDG Chair, the meeting was led by the Vice Chair.

The PDG reviewed IAFP conflict of interest policies and received an update from the Board.

The PDG discussed ideas for sessions and workshops to be proposed for the next Annual Meeting. There was agreement that there are many people new to fraud mitigation who would benefit from an information session that defined the technical terminology and outlined how to build a fraud mitigation program. There was broad agreement that a pre-meeting workshop would be valuable to provide hands-on experience with available tools for vulnerability assessment.

Several participants raised the issue of how difficult it can be to find and implement cost-effective testing methods to identify adulterated ingredients and products. Methods developers find that this lack of clarity prevents them from being able to meet industry needs. It was also pointed out that some very effective testing methods do not require sophisticated equipment (for example, microscope evaluation).

The international nature of food fraud vulnerability and prevention was discussed.

One participant suggested that the focus of the IAFP program should be on the safety consequences of food fraud.

Members of the PDG agreed to work toward developing a pre-meeting workshop proposal and to organizing at least one webinar before the next Annual Meeting/

Recommendations to the Executive Board: None.

Next Meeting Date: July 16, 2023, Toronto, Ontario, Canada.

Meeting Adjourned: 2:45 p.m. Eastern Time, Sunday, July 31, 2022.

Chairperson: John Spink.

Food Hygiene and Sanitation PDG

Attendees: Evan Rosen (Chair), Nathan Mirdamadi (Vice Chair), Mary Choate, Jill Hollingsworth, Barry Parsons, Richard Brouillette, Aaron Aboud, Shahram Ajamian, Pamela Wilger, Ryan Simmons, Dave Hill, Chris Jordan, Dale Grinstead, Jeffrey Kornacki, Kevin Lorcheim, Maxwell Lorcheim, Rob Donofrio, Melissa Vaccaro, Bob Forner, Rachael Blevins, Kimberly Brown, Joshua Gurtler, Kim Bingham, David Buckley, Jack Burnett, Robert Roe, Rob Middendorf, Jaakko McVey, Erin Ducko, John Merenick, John Boyce, Tracey David, Joelle Williams, Curtis Weller, Michele Sayles, Heather Garcia, Anru Shen, Sanghyup Jeong, Kasey Nelson, Ian Klug, Ian Hildebrandt, Narindra Randriamiarintsoa, Victoria Burgess, Lynette Johnston, Fred Soderstrom, Cheryce Joyner, Rachel McEgan, Rick Heiman, Rocelle Grabarek, Sandy Sim, Joyce Wert, Scott Burnett, Mark Moorman, Dave Blomquist, Neil Bogart, Debra Smith, Stine Lønnerup Bislev, Amit Kheradia, Tina Caskey, Quynh-Nhi Le, Matthew Hahs, Charles McGill, Brian Perry, Hardik Vyas, Jeannie Kim, Anett Winkler, Chris Boyles, Ryan Mills, May Yeow, Emilio Esteban, Claudia Narvaez, Kara Mikkelsen, Jason Weis, Joemel Quicho, Yvonne Masters, Sanjay Gummalla, Weilin Shelver, Efstathia Papafraqkou, Jason Scheffler, Leena Griffith, Kizito Nishimwe, Collins Bugingo, Nic Sharman, Per Nielsen, Zeb Blanton, Arlette Shazer, Bassam Annous, Michelle Kotler, Chip Manuel, Brian Izdepski, Monica Garcia, Iryna Syb, Gale Prince, Mark Tulloch, Timothy Rugh.

Number of Attendees: 109.

Meeting Called to Order: 8:00 a.m. Eastern Time, Sunday, July 31, 2022.

Minutes Recording Secretary: Evan Rosen.

Old Business: Welcome, introduction, and Mission Statement by Evan Rosen. Review of Executive Board announcements. Evan reviewed the agenda and called for additional items. Approval of the 2021 Minutes was seconded by Dale Grinstead.

New Business: Topics for IAFP 2022 developed by the PDG were discussed.

Submitting Committee - Dairy Quality and Safety PDG **Session # 7755** Symposia: **S28 Data-Driven Sanitation Chemistry Selection: Does It Work Against Biofilms?** (Josie Greve-Peterson, Diane Walker, Scott A. King, Albert Parker, Jake Watts and Dale A. Grinstead, (1)PSSI Food Safety Solutions, Kieler, WI(2)MSU Center for Biofilm Engineering, Bozeman, MT(3)PSSI, Kieler, WI(4)Retired – Senior Food Safety Technology Fellow, Highlands, NC) Tuesday, August 2, 2022, 8:30-10:00 a.m.

Submitting PDG: Sanitary Equipment and Facility Design PDG **Session # 8075** Symposium- **S6 Food Safety by Design** (Dimitri Tavarnarakis, Global Hygienic Design Excellence Lead Mondelez International, Czekoladowa, Kobierzyce, Poland, Debra L Smith, Vikan, Swindon, United Kingdom, Mark Morgan, University of Tennessee, Knoxville, TN, Gale Prince, President, SAGE Food Safety Consultants, LLC., Cincinnati, OH, Rick J. Heiman, 3-A, McLean, VA and Dimitri Tavernarakis, Mondelez International, Heraklio, Greece) Monday, August 1, 8:30-10:00 a.m.

Submitting PDG–Committee on Control of Foodborne Illness **Session #8106** Symposium: **S24 Foodborne Disease Outbreak Update** (Kari A. Irvin, Laura Gieraltowski, Ewen C. D. Todd, Doug Noveroske, Marvin R. Mitchell, Jr., Beth Wittry and Courtney Smith, (1) U.S. Food and Drug Administration, College Park, MD (2) CDC, Atlanta, GA (3) Ewen Todd Consulting LLC, Okemos, MI (4) U.S. Department of Agriculture-FSIS, Washington, DC (5) Public Health Agency of Canada, Toronto, ON, Canada) Tuesday, August 2, 2022, 8:30-12:15 p.m.

Submitting PDG–Developing Food Safety Professionals PDG **Session #8112** Symposium: **S18 Advances in Antimicrobial Technologies and Their Translation into Industry Practices** (Sofia Feng, Micros Food Safety, Wageningen, GA, Netherlands, Matthew D. Moore, University of Massachusetts,

Amherst, Amherst, MA, Katie Overbey, U.S. Food and Drug Administration, Rockville, MD, Siroj Pokharel, California Polytechnic State University, San Luis Obispo, CA, Marc E. Pollack, ZECO-Member of The Vincit Group, Chattanooga, TN and Phillip Demokritou, Rutgers University, Piscataway, NJ) Monday, August 1, 2022, 3:45-5:15 p.m.

Ryan Simmons, Scott Burnett, Stacy Ostromecki (Sterilex) presented Benefits of EPA Registered Sanitizing Powders. Bassam Annous (USDA) presented Uses, Application, and Generation of Chlorine Dioxide Gas Rine Reuben (Student PDG Liaison) – Welcome and Introduction of Student PDG Members.

Discussion on IAFP 2023 Symposia/Roundtable/Workshop Deadline for Submissions for IAFP 2021 is October 4, 2022.

Baby formula Roundtable. Doing retrospective look and trying to get Abbott, FDA, and Independent expert. (Jeff Kornacki). Jeff accepted the role of a speaker. However, he was not the original submitter. This was brought up on a previous PDG call by no one in particular. Still need a primary contact for this session.

Novel food processing sanitation. Plant-based meats and lab culture based food (Rick Stokes)

No one spoke up about this topic during the PDG meeting on July 31, 2022

Automated sanitation methods, latest advancements. (Rick Stokes, Joerg Zacharias, [from Cronus], Deb Smith: a PhD student who is investigating automated cleaning may be interested in this session). No one spoke up about this topic during the PDG meeting on July 31, 2022

Roundtable - Sanitation access to small and medium-sized growers. David with NC State. Charles suggested speaking to Jennifer McEntire and the Produce Safety Alliance on this beforehand. Rick also mentioned that distributors are part of the solution and that should be addressed. An abstract was written for this and proposed in the Fresh Fruit and Vegetable PDG.

Developing a world class EMP. This was an idea submitted by Jeff Kornacki. This idea is about expanding what we do with EMPs. It's not enough to hunt for 1 or 2 microorganisms. We have the tools to do much more. So why don't we?

What hurdles are in our way to eliminate foodborne pathogens in packaged foods? This is an idea Dave Blomquist proposed. The idea being that we can eliminate foodborne pathogens but need to map out the hurdles in our path to achieve this goal.

Gems in field. This was submitted by Michele Sayles. This stem from a lack of communication around actual successes and failures in verification and validation in the field. We know a lot about benchtop lab work but we want to understand what's happening in real life and what lessons can we learn from other sectors to help out low moisture food environments.

Bacteriophages and their uses in the food industry. This was an idea proposed by Charles Giambone. While this is not core to food hygiene and sanitation PDG we could certainly be a co-sponsor.

Risk assessment for hygienic and equipment design. Ensuring the right design in zone risk assessment for brown and green field and in facilities. It was brought up that this could be co-sponsored with the hygienic/equipment design PDG for 3A. This could also funnel into the (g) Gems in the Field. It may also be a workshop for next year. If it is a workshop the group agreed that allergens should be part of the training.

Sustainability in cleaning. This was submitted by a gentleman from Kroger. Sustainability is a key to many businesses and food safety plays a part. One way to become more sustainable is to make considerations in your sanitation program, i.e., reducing water, using super concentrates to reduce plastics, etc.

Defining what sanitary mean? This was brought up by AFFI. Essentially, we don't have a standard for what "sanitary" means. This could be a roundtable discussion that highlights what sanitary means to different sectors.

Additional Topics included feedback from the group on our monthly PDG meeting.

Recommendations to the Executive Board:

1. Recommend a later time for our annual PDG meeting.
2. Consider subsidizing the cost for attending a workshop to increase attendance. The current costs are prohibitive for some members.

Next Meeting Date: Sunday, July 16, 2022, Toronto, Ontario, Canada.

Chairperson: Evan Rosen.

Food Law PDG

Attendees: Melanie Neumann (Chair), Eric Edmunds (Vice Chair), James Cook, Brian Perry, Cory Ortego, Joelle Williams, Rosie Newsome, Kate Meck, Eric Stevens, Brian Ramsaur, Lauren DiMenna, Leonard Ogomo, Wendy Bigala, Rose Omari, Jeffrey Read, Jack Cooper, Anthony Flood, Mario Leone, Tania Martinez, Leslie Hintz, Carl Katz, Vanessa Cranford, Daniel Sohler, Betsy Booren, Barbara Masters, Weifan Wu, Kaylee Farmer, Katherine Qu, Weilin Shelver, Alicia Ford, Gayatri Rajashekhar Dhulappanavar, Aaron Dudley, Tim Gillam, Tina Gettis, Jack Cooper, Susan Teegardin, Rosie Newsome, Jennifer Lott, Maryana Glavan, Joanna Griffiths, Xinhui Li, Lauren DiMenna, Jeannie Kim, Mario Leone, Jennifer Burke, Michelle Kotler, Bassam Annous, Shuopeng Yang, Xuetong Fan, Yifan Cheng, Deborah Hutchins, Frank Velez.

Number of Attendees: 52.

Meeting Called to Order: 1:05 p.m. Eastern Time, Sunday, July 31, 2022.

Minutes Recording Secretary: Eric Edmunds.

Old Business: The meeting was called to order and all attendees were welcomed to the meeting. All attendees then introduced themselves and provided information as to their interests relating to food law. The tentative agenda was reviewed and approved with no changes. The Antitrust Guidelines were read and discussed.

Minutes from last year's meeting were reviewed and approved. One clarification was made to the group to clarify that the IAFP Board does not approve the minutes in their entirety, but only reviews the recommendations to the board before approving those recommendations.

An update on the Regulatory Systems Summaries project was provided by Rosie Newsome. An example of the systems summary was provided and a general timeline was discussed. A request for additional volunteers to participate in the project was made with several PDG members showing interest. Discussion included ideas on how to best address these issues moving forward. An opportunity to do more comparative roundtables at future IAFP conferences to discuss specific topics such as food defense and novel food regulations was discussed, particularly with reference to differences between the US and EU regulatory systems. A next phase of the project was discussed to begin breaking down the systems summary into more commodity/product specific comparisons. Additional resources and the need to have a person from the relevant jurisdictions review the information for accuracy were discussed.

Food Law PDG sponsored proposals for this IAFP conference were discussed showing which proposals were accepted or rejected.

New Business: An IAFP Board liaison update was not provided during the meeting as they were not available however updates were provided in writing after the meeting that included attendance numbers, reminders to submit PDG minutes, development and submission of symposia for 2023, and opportunities for webinars or webinar series throughout the year. There is also a reminder that next year's meeting will be in Toronto, Canada and that members should verify that they have current passports and that early application for a visa should be considered by members if needed.

Student PDG updates were provided, encouraging members to participate in both the 3-minute thesis competition and the opportunity to encourage student development through the meet a scientist program through the student PDG.

Ideas for the 2023 IAFP Annual Meeting Symposia, Roundtables, and Workshops were discussed. Discussion and topics included: plastic food packaging and environmental considerations, green/sustainability claims and review of FTC green guides, food waste and how it applies to food safety, food systems governance, verification of food safety/food laws along the supply chain in relation to potential ongoing supply chain disruptions, updates on lawsuits and litigation in the food industry, remote inspections from a regulatory and GFSI perspective, the future of information sharing and confidentiality issues.

Recommendations to the Executive Board: None.

Next Meeting Date: July 16, 2023, Toronto, Ontario, Canada.

Meeting Adjourned: 2:58 p.m. Eastern Time, Sunday, July 31, 2022.

Chairperson: Melanie Neumann.

Food Packaging PDG

Attendees: Tony Jin (Chair), Tania Martinez (Vice Chair), Weilin Shelver, Alicia Ford, Gayatri Rajashekhar Dhulappanavar, Aaron Dudley, Tim Gillam, Tina Gettis, Jack Cooper, Susan Teegardin, Rosie Newsome, Jennifer Lott, Maryana Glavan, Joanna Griffiths, Xinhui Li, Lauren DiMenna, Jeannie Kim, Mario Leone, Jennifer Burke, Michelle Kotler, Bassam Annous, Shuopeng Yang, Xuetong Fan, Yifan Cheng, Deborah Hutchins, Frank Velez.

Number of Attendees: 28.

Meeting Called to Order: 3:15 p.m. Sunday July 31, 2022.

Minutes Recording Secretary: Tania Martinez.

Antitrust Statements from the IAFP were read by current Chair Tony Jin.

An IAFP Board Liaison was not able to make it to the meeting for an IAFP update. The update from board member's email was read by Tony.

A student liaison also updated information from student PDG. The outgoing Chair Kimberly Yeager was not able to come to the meeting for health reasons. Tony, on behalf of all members, expressed attitude to her for her hard work for the past two years and wish she fully recovery soon.

Chair Tony Jin and Vice Chair Tania Martinez were introduced.

Old Business: Minutes from the last meeting held on June 30, 2021 are available at <https://www.foodprotection.org/get-involved/professional-development-groups/food-packaging-pdg/>. No members objected to the acceptance of the meeting minutes from the meeting of June 30, 2021.

IAFP Connect Food Packaging PDG Community was mentioned again—and that *IAFP Connect* is the only means of communication among members of the PDG. The members were reminded that the group was given information last year by Tony about *IAFP Connect* and how to log in and access our community, and that this information would be shared again in the meeting minutes. (Link: [https://connect.foodprotection.org/home](https://connect.foodprotection.org/home;); Food Packaging PDG Community: <https://connect.foodprotection.org/communities/community-home/digestviewer?communitykey=246716cf-70bf-459e-bd79-93aef8c33987&tab=digestviewer>);

For our annual PDG meeting, we welcomed Jack Cooper, Executive Director for ADFPI, who gave a special presentation, regarding Improperly discarded plastic food packaging. Interest in this topic is high and there were a lot of discussion. The packaging sustainability and safety will be the main topics for 2023 Annual Meeting.

New Business: Packaging PDG Symposia/Roundtables selected for 2022 IAFP Meeting: None was accepted by IAFP for this year.

Discussions for innovative ideas were brought to the participants. The deadlines for the innovative ideas and submission for symposia, roundtables and workshops were informed to the participants. Tony also encourages members to submit proposals for webinar. 9 topics from last year and this year brainstorms were discussed among the participants. Currently, one round-table and three symposia for 2023 Annual Meeting have been proposed and others will be followed later. The proposals are:

Roundtable: Leader: Jianna Griffiths. Topic: Best practices frameworks for evidencing sustainability in packaging.

Symposia proposal: Leader: Dr. Tania Martinez. Challenges with sustainability, environment and packaging materials around the world regarding food safety concerns for the US Market. Special Focus in a Comparative Approach between the main regulations worldwide compare to the US Federal and State regulations.

Symposia proposal: Leader: Yifan Cheng. Topic: Microplastics in foods

Symposia proposal: Tim Gillam. Topic: Legal regulations definitions around what is defined as recyclable, compostable around packaging made with alternative materials.

Recommendations to the Executive Board:

1. Recommend appointment of Tony Jin as the new Chairperson of the Food Packaging PDG beginning at the 2022 Annual Meeting for a two-year term.
2. Recommend the appointment of Tania Martinez as the new Vice Chairperson of the Food Packaging PDG for a two-year term beginning at the 2022 Annual Meeting, and to then serve as Chairperson as a two-year term immediately following.

Next Meeting Date: July 16, 2023. Toronto, Ontario, Canada.

Meeting Adjourned: 4:55 p.m. Eastern Time, Sunday, July 31, 2022.

Chairperson: Tony Jin.

Food Safety Assessment, Inspection, and Audit PDG

Attendees: Tracie Sheehan (Chair), Jennifer Lott (Vice Chair), Casey Showman, Tim Gillam, Vijay Krishna, Joseph Meyer, Jacqueline Southee, Abebe Aberra, Todd Napolitano, Kim Bingham, Steve Taylor, Andrew Clarke, Joe Baumert, Lindsey Bowen, Nikkie Vazquez, Thomas (Tom) Black, Yves Oukouomi-Lowe, Karina Martino, Samantha Shinbaum, Jignesh Rasanina, Philip Steinbrunner, Jeannie Kim, Brian Kellerman, Bertrand Emond, Kristina Sweet, Carmen Cano, Aaron Aboud, Rocelle Grabarek, Shahram Ajamian, Kate Nicholas, Daniel Bair, Nic Sharman, Heather McLemore, Brian Perry, Lauren DiMenna, Riya Magiya, Tracey David, Joelle Williams, Gale Prince, Cheryce Joyner, Katie Stolte-Carroll, Chloe McGovern, Wendy Bigala, Tatiana Lorca, Jean Edsall, Brian Ramsaur, Lauren Hamilton, Makena Brand, Partesha Verge, Franciel Ikeji, Lang Yao, Taozhu Sun, Sandy Sim, Kate Meck.

Board/Staff Present: Ruth Petran, Mark Carter.

Number of Attendees: 56.

Meeting Called to Order: 9:00 a.m. Eastern Time, Sunday, July 31, 2022.

Old Business: No outstanding old business from the previous meeting on June 15, 2021.

New Business: Reference to the Antitrust statement, attendees reminded and encouraged to review the statement.

Various submissions made by PDG for the 2022, the PDG is a primary sponsor for:

An overview of the Student PDG was provided by Aaron Dudley, Ph.D. Student in Food Safety, and Processing, Alabama Agricultural and Mechanical University. Aaron shared the three

main Student PDG activities, Meet your favorite foods scientist, 3-minute thesis completion (3MT), and Proposal submissions for IAAP Annual Meeting; he encouraged the group to become more involved with the Student PDG by sharing our career stories, judging 3MT, or reviewing submissions, as they represent our future PDG members.

Tracy provides an overview of the IAAR Auditing Apprenticeship. There are currently six participating CBs. More information is available at <https://iaar.org/MSA/>.

Tracy provided an update to GFSI Initiative Race to the Top (RTTT)

Feature 1: Developing harmonization and benchmarking requirements for providers of food safety and auditor training and on-going continuing professional development (CPD). **Update:** GFSI finalized and published the Professional Registration Body (PRB) benchmarking requirements. You can access the PRB Benchmarking Requirements online at <https://mygfsi.com/wp-content/uploads/2021/12/Response-Consultation-Transitional-Arrangements-ATPD.pdf>. SQF, BRC, FSSC and Exemplar Global are participating in the pilot process with the goal to understand the implementation process and propose changes.

Feature 2: Requirements for CPOs.

Feature 3: Developing a collaborative approach to the management of CBs between CPOs, ABs and GFSI. **Update:** KPIs have been established by the IAF Food Working Group. KPIs evaluate the audit process against the CPO requirements.

Feature 4: Feature 4: Developing a certificate platform-enabling access to certificate data of all FBOs certified to a GFSI-recognized program. **Update December 2021** – The GFSI announced that it has signed an agreement with **Webnet** for the development of its proprietary certificate platform – a live, online repository of all certificates issued against GFSI-recognized Certification Programmes, available to anybody who needs to verify the validity of such certificates.

There were no updates reported for feature 2-4.

SQF and FSSC were invited to present during the meeting, SQFI was unable to attend, Tracie provided an overview on SQF certification program from slides prepared by SQFI.

Jacqueline Southee, FSSC, provided an overview of the FSSC Certification program. She commented that version 6 of the standard will be published in Q1 2023, and there will be a 12-month transition window, with audits beginning in 2024.

Recommendations to the Executive Board: None.

Next Meeting Date: July 16-19, 2023, Toronto, Ontario, Canada.

Meeting Adjourned: 10:15 a.m. Eastern Time.

Chairperson: Tracie Sheehan.

Food Safety Culture PDG

Attendees: Laura Dunn Nelson (Chair), Melody Ge (Vice Chair), Brian Perry, Liang Bennett, Brandon Voga, Peyton Haynes, Loni Rogers, Andrew Clarke, Neil Bogart, Robert Price, Nikkie Vazquez, Rachael Blevins, Jonathan Basha, Cheryl Enlow, Jason Weis, Stephen Grove, Katherine Qu, Nikita Jackson, Alison Cousins, Mangesh Palekar, Emma Samuel, Nic Sharman, Fred Soderstrom, Annie Piepenhagen, Julie Simcox, Ikechukwu Oguadinma, Brian Izdepski, Helen Taylor, John Boyce, Victoria Burgess, Stephanie Weinand, Bertrand Emond.

Number of Attendees: 100+.

Meeting Called to Order: 3:15 p.m. Eastern Time, Sunday, July 31, 2022, David L. Lawrence Convention Center Room 406.

Minutes Recording Secretary: Ikechukwu Oguadinma, Student Liaison.

Old Business: The food safety culture PDG activities for 2021-2022 were briefly discussed including highlights of accepted symposia for conference and overview of webinar series.

New Business:

Talk by Lone Jespersen: Cultivate

Lone Jespersen started her talk by asking if members of the audience were aware of or actively implementing a food safety plan or a food safety culture plan in their various organizations. She highlighted some cultural assumptions about food safety and reasons for these assumptions including knowledge, sub-cultures within organizations, psychological heuristics, and biases. Lone ended her talk by stating the importance of cross-functional involvement in food safety including CEOs, finance teams, sales teams, and product development teams. She stated, "Everybody is responsible for food safety," and ended by announcing a food safety research group to meet on October 12th, by 9:00 am, location TBD. Additionally, Dr. Jespersen will be presenting as part of the Food Safety Culture PDG webinar series later this fall.

Update by Neil Coole on PAS 320: BSI

Neil gave an update on the progress of the PAS 320 guidance document to drive culture change within organizations. The discussion to develop this guidance initiated at the round table session at IAFFP 2019 in Louisville, Kentucky. The first, second and third drafts of the document have been developed and the final steering group is projected to meet in September 2022. According to Neil, the PAS 320 publication is projected to be released in December 2022 or Q1 2023.

Talk by Bertrand Edmond and Laura Nelson: Campden/Intertek Alchemy

Bertrand and Laura gave an update on a 2022 global food safety training survey in a talk titled "Our Industry's current food safety culture journey." Laura gave some highlights about the survey. According to Laura, there were over 2,000 responses gathered from the survey (2,118) of which 81% agree to having some knowledge of food safety culture, 13% neither agreed nor disagreed, and 22% were confident that employees have authority to act if there is a risk that food safety might be compromised. Bertrand emphasized the use of technology in making food safety trainings more on demand. The two speakers both recommended more effective trainings with built in reinforcement and recognition. Both speakers will be presenting as part of the Food Safety Culture PDG webinar series later this fall.

Interactive session by Melody Ge and Andrew Clarke: Starkist/Loblaws

Melody and Andrew gave responses to several questions in an interactive session. Melody and Andrew spoke about a holistic approach for vendors, the absence of a real plan for food safety culture and the need for a holistic management of food safety culture across companies including increasing awareness among stakeholders. Truthful communication was highlighted as a way to improve collaboration between retailers and industries to enhance food safety cultures.

Breakout sessions

There were breakout sessions consisting of 5 different groups that discussed critical Food Safety Culture questions.

Group 1: We need management support! How can we engage them as a partner in our food safety culture journey of improvement?

Group 1 emphasized the need to speak the language of management as a way to improve engagement. They highlighted the need to look at audit metrics and the use of scare tactics to drive improvement in food safety culture.

Group 2: How can we better collaborate with operations to achieve their support on food safety culture initiatives?

Group 2 emphasized the need to speak the language of operators, both the literal language of members of the team and technical language of operations. They highlighted the need to communicate the importance of audits and food safety culture and breaking down barriers between different teams.

Group 3: What approaches can we apply to address pockets of low culture maturity (for example specific lines, specific shifts, specific plants) within our organizations?

Group 3 highlighted the need to work on team morale through effective communication, identifying areas of strength and placement and leadership by example.

Group 4: How do we engage other departmental leaders as "co-champions" to distribute the food safety culture responsibilities and the long-term improvement journey?

Group 4 emphasized the need to break the silos through communication and identifying the champions. They highlighted cross-functional walkabouts, having an executive sponsor and bringing in external catalysts.

Group 5: How can we leverage our training and development tools to better retain our frontline employees and therefore drive more consistent food safety behaviors?

Group 5 highlighted the importance of designing tools that are task-oriented and easily repeatable. They emphasized the need to coach and develop employees and to understand the factors that drive employee motivation. A recommendation was to use animations in training tools.

The deadline for Vice Chair nominations was set for May 2023.

Recommendations to the Executive Board

1. We respectfully submit a recommendation to the Board to schedule our Food Safety Culture PDG meeting so it does not overlap with Food Safety Education and Developing Food Safety Professionals. We had considerable feedback on the meeting schedule challenges and experienced a large portion of our members exiting our meeting so they could join a portion of the other meetings.
2. Additionally, we had several PDG members that joined us but were not scanned during the transition from the prior PDG. This potentially makes it difficult to share our meeting outcomes with the interested members. Perhaps we can have a scanning attendance system (phone app) executed by the student liaison?

Next Meeting Date: Sunday, July 16, 2023, Toronto, Ontario, Canada.

Meeting Adjourned: 5:03 p.m. Eastern Time.

Chairperson: Laura Nelson.

Food Safety Education PDG

Attendees: Wenqing Xu (Chair), Shauna Henley (Vice Chair), Barry Parsons, Graham Houle, Catherine Gensler, Megan Jensen, Ian Young, Robert Brackett, Mari Schroeder, William Lachowsky, Teresa Lopez, Deborah Briesmeister, Christina Wormald, Christine Venema, Mary Morris-Donaldson, Neal Fredrickson, Jean Edsall, Sarah Cope, Ellen Shumaker, Nicole Arnold, Ellen Evans, Katie Weston, Nancy Flores, Saif Arabi, Evelyn Watts, Robert Corsino II, Martin Bucknavage, Steve Tracey, James O'Neal, Cathy Liu, Amalia Beary, Allison Howell, Katheryn Parraga, Richard Fleming, Diane Ducharme, Lynette Johnston, Jouman Hassan, Janet Buffer, Caroline Smith DeWaal, Keith Amoroso, Jennifer Quinlan, Stephanie Darilus, Andrea Cerrato, Sanja Ilic, Arenis Piñon, Amarat Simonne, MaryBeth Hornbeck.

Number of Attendees: 47.

Meeting Called to Order: 3:15 p.m. Eastern Time, July 31, 2022.

Minutes Recording Secretary: Rawane Raad.

Old Business: Wenqing (Wennie) Xu motioned to approve the 2021 PDG meeting minutes. Evelyn Watts and Kathy Liu seconded the motion.

New Business: PDG Leadership, Wenqing (Wennie) Xu (Chair), Shauna Henley (Vice Chair), and Rawane Raad (Student Liaison) introduced themselves to the PDG members.

Wennie read the announcement from the board on behalf of Dr. Emilio Esteban, which provided an overview on the number of attendees and exhibitors attending the 2022 IAFP meeting, thanked the Giant Eagles for their warm welcome of IAFP 2022 and reminded the PDG members to check their passport's expiration date and the visa requirements for Canada, if needed for the next 2023 IAFP Annual Meeting.

Katie Weston from the Partnership for Food Safety Education (PFSE) shared their organization's future projects including call for abstract submissions for their upcoming conference. Saunier invited the PDG members to attend a free webinar: Breaking through Food Safety Barriers & Myths happening on August 11 at 1 p.m. and called them the become BAC fighter ambassadors.

The student liaison presented updates regarding the student PDG (SPDG) activities and invited the PDG members to get more involved with the SPDG.

The PDG Chair highlighted the seven symposia or roundtables that were primarily sponsored by the PDG for IAFP 2022. The topics and times were announced for to encourage attendance. The chair announced the publication of the disaster pamphlet: "Before, During and After Disaster Strikes... A Guide to Food and Water Safety in the Home", discussed in 2018.

The ideation session for IAFP 2022 occurred.

The PDG members were asked to avoid duplicated topics while submitting proposal and advised to start submitting the 2023 proposals early and to not collaborate with more than 3 other PDGs to avoid duplications.

The PDG chair called for nominations for the Vice Chair from August to September 2022. Elections will occur from October to December 2022 and Vice Chair elect will be announced in January 2023.

Recommendations to the Executive Board: None.

Next Meeting Date: Toronto, Ontario, Canada, July 16, 2023.

Meeting Adjourned: 4:55 p.m. EST on July 31, 2022.

Chairperson: Wenqing (Wennie) Xu.

Fruit & Vegetable Safety & Quality PDG

Attendees: Gretchen Wall, Enrique Garcia (Vice Chair), Abigail Aba Mensah, Tiffany Greenlee, Samir Assar, Yuqiao Jin, Jason Wan, Betsy Bihn, Steve Mandernach.

Number of Attendees: NA.

Meeting Called to Order: 1:02 p.m. Eastern Time, July 31, 2022.

Minutes Recording Secretary: Gretchen Wall.

Old Business: Meeting minutes from the virtual 2021 Meeting were adopted. PDG members were reminded to utilize *IAFP Connect* to communicate with the PDG, exchange ideas, and sign up for other PDG participation. In April 2022, a webinar was hosted by the PDG with speaker Sean Fogarty of University of Vermont and the Northeast Center to Advance Food Safety titled 'Foundations of Produce Safety in Hydroponic and Aquaponic Operations'. A recording is available on the IAFP website. If you have suggestions for webinars for 2022-2023 please contact Kristin or Enrique.

New Business: Welcome new Vice Chair, Enrique Garcia of Hazel Technologies, Inc. based in the Pacific Northwest. He will join incoming Chair, Kristin Esch of the FDA Produce Safety Network to lead the PDG. The next cycle for Vice Chair will be in 2024 and open to a colleague in academia.

Executive Board updates included that this year's Annual Meeting is about 75-80% of pre-pandemic attendance (close to 3,000). Exhibitors are at about 80%, so all attendees were encouraged to visit the exhibit floor and participate in the floor passport. A special thanks to Giant Eagle for their support with local arrangements.

Reminders were provided about the use of *IAFP Connect* for PDG communications and sharing of professional development opportunities. Symposia/workshop/roundtable proposals are due to IAFP by Oct. 4, 2022 with a pre-screening date if seeking PDG support no later than Sept. 23, 2022. This process allows the Chair/Vice Chair to review proposals for scientific accuracy, novelty, and connect individuals pursuing similar topics. A review of the 13 FVSQ sponsored sessions for the 2022 meeting were shared. PDG members are advised to send any suggestions for webinars for 2022/2023 to Enrique or Kristin.

Thank you to all who stayed to participate in the produce safety and quality think tank. We will be summarizing the information we received and sharing this with the PDG after the Annual Meeting concludes to create objectives for the upcoming year.

Presentations were provided by several colleagues to cover updates on behalf of the following organizations. The presentation slides will be shared via *IAFP Connect*.

Abigail Aba Mensah – Student PDG
Tiffany Greenlee – FDA CORE – Produce-Related Outbreaks
Samir Assar – FDA Division of Produce Safety
Yuqiao Jin – Sprout Safety Alliance
Jason Wan – Food Safety Preventive Controls Alliance
Betsy Bihn – Produce Safety Alliance
Steve Mandernach – Association of Food & Drug Officials

Recommendations to the Executive Board:

1. Recommend Enrique Garcia of Hazel Technologies, Inc. be approved as incoming Vice Chair for the Fruit & Vegetable Safety & Quality PDG.
2. Consider organizing a local tour (with registration cap) to showcase a food facility, farm, or business that provides food safety services in each host city during the Annual Meeting.
3. Provide more development opportunities for Chairs & Vice Chairs to engage with PDGs, share what has worked/what hasn't worked, and examples of PDG activities and output that IAFP feels aligns with its mission and purpose of the PDGs. Limited information has been provided to new chairs/Vice Chairs, and the Saturday pre-meeting does not provide much actionable information to prepare for leadership within these roles.

Next Meeting Date: July 16-18, 2023, Toronto, Canada.

Meeting Adjourned: 3:00 p.m. Eastern Time.

Chairperson: Gretchen Wall.

HACCP Utilization and Food Safety Systems PDG

Attendees: Fatemeh Ataei (Chair), Bala Kottapalli (Vice Chair), Mopelola Oluwadare, Kerri Gehring, Taryn Polera, William Lachowsky, Govindaraj Dev Kumar, Brian Izdepski, Sanjay Kumar, Ellen Mendez, Sarah Kozak-Weaver, Loralyn Ledenbach, Yvonne Masters, Ahnna Schulte, Titilayo Falade, Carol Wallace, Deborah Briesmeister, Pamela Wilger, Catharine Carlin, Keith Ito, Abhinav Mishra, William Burkhardt, III, Enrique Zuniga, Rick Kralj, Minji Hur, Nancy Flores, Helen Taylor, Monica Garcia, Lone Jespersen, Michael Fang, Darrell Donahue, Matthew Hahs, Yaxi Dai, Anne Bigalke, Rocelle Grabarek, Barbara Grayes, Heather Garcia, Karina Martino.

Number of Attendees: 38.

Meeting Called to Order: 9:00 a.m. Eastern Time, Sunday, July 31, 2022.

Minutes Recording Secretary: Bala Kottapalli and Fatemeh Ataei.

Old Business: Chair Fatemeh Ataei welcomed attendees and reviewed the meeting agenda. Fatemeh provided an update on the Board meeting highlights to the PDG. The major points were as follows: This year there will be 3000 attendees at the Annual Meeting which is about 75-80% of the attendance pre-pandemic

in Louisville. Encourage PDGs to organize webinars or webinar series throughout the year. In addition, the Executive Board encouraged to organize webinar on relevant topics to PDG. Board requested to consider DEI principles as ideas for 2023 symposia are being developed. The Executive Board is excited to announce *JFP*'s transition to Elsevier. Finally, 2023 meeting will be held in Toronto hence, members are encouraged to prepare travel documentation (if applicable) to avoid any delays in visa processing.

Adoption of 2021 PDG Minutes: Minutes from the 2021 meeting were tabled for comments or edits. Motion to adopt the minutes was proposed by Lori Ledenbach and was seconded by Dr. Carol Wallace. Minutes adopted (there were no edits). Fatemeh reviewed and shared this year's sessions that were sponsored by HACCP PDG. 11 proposals were submitted, and 4 were approved and are on the schedule for the IAFP 2022 Annual Meeting (1 roundtables, 2 short symposia and 1 full symposium).

New Business: Fatemeh requested nominations of election of new Vice Chair. More details will be announced via *IAFP Connect* later this year. Dr. Govindaraj Dev Kumar, Assistant Professor at University of Georgia Center for Food Safety discussed flour safety approaches to mitigate pathogenic *E. coli* risk during flour processing. The presentation was positively received. Please refer to the slides of the presentation (provided along with these meeting minutes) for more details. PDG 2023 sponsored symposia was discussed. Fatemeh also requested review the symposia proposals that were not approved and do one of the following: (1) Incorporate program committee feedback and re-submit or (2) Convert these topics into webinars. Deadline for 2023 submissions was also discussed (**October 4, 2022**).

Recommendations to the Executive Board:

1. Request recording of PDG meeting.
2. Scheduling HACCP PDG meetings such that it doesn't conflict with other PDGs (ex: Sanitation, Auditing) that also have common audience/Members or that deal with similar topics of concern.

Next Meeting Date: Sunday, July 16, 2023, Toronto, Ontario, Canada.

Meeting Adjourned: 10:17 a.m. Eastern Time.

Chairperson: Fatemeh Ataei.

International Foods Protection Issues PDG

Attendees: DeAnn Benesh (Chair), Marcel Zwietering (Vice Chair) David Crabtree, Kevin Edwards, James Cook, Evan Henke, DeAnn Benesh, Patrick Bird, Aaron Dudley, Franciel Ikeji, Rosie Newsome, Kang Zhou, Arie Havelaar, Kate Meck, Jeff Farber, Katie Swanson, Tania Martinez, Isabel Walls, Maayan Abramovich, Guy Tenenbaum, Erin Crowley, Xiangwu Nou, Brad Taylor, Steven Gendel, Amarat Simonne, Christie Cheng, Sanjana Laobangdisa, Susan Teegardin, Caroline Smith DeWaal, Jorge Pinto Ferreira, Mark Carter, Leon Gorris, Bob Banerjee, Jonathan Brackahn, Jeffrey Read, Teresa Fox, Deon Mahoney, Jenny Scott.

Number of Attendees: 38.

Meeting Called to Order: 8:30 a.m. Eastern Time, July 31, 2022.

Minutes Recording Secretary: Marcel Zwietering, Vice Chairperson; Aaron Dudley, Student Liaison.

DeAnn Benesh opened the meeting, welcoming PDG members and participants introduced themselves. Aaron Dudley introduced the Student PDG activities and mentioned specifically three priority ones being a) meet your favorite food scientist, b) 3-minute thesis competition and c) proposal submission. Please be active in engaging with students. If you want to contribute please contact either Aaron, our student liaison (adudley4@bulldogs.aamu.edu) or Claire Murphy (chair person Student PDG cmarik@vt.edu). DeAnn reviewed and reminded the participants of the Antitrust guidelines.

Old Business:

Related to the Minutes: Recommendations to the Board: Marcel Zwietering was approved as Vice Chair and the option of hybrid conferences was not followed for 2022, however presentations are available for viewing after the Annual Meeting. There were no comments on minutes of the 2021 PDG meeting as printed in *FPT* and posted on *IAFP Connect*. Motion to accept by Jeff Farber, seconded by Arie Havelaar. Minutes approved.

Seven PDG submissions were accepted, five symposia and two roundtables: RT3 (COVID-19), S21 (COVID-19), S27 (What to Expect When Exporting) S30 (Food Safety Africa), S36 (AMR in Middle East and North Africa), S45 (QMRA for LMIC), SS1 (Get-connected market).

DeAnn Benesh gave an Update from the Regulatory System Summaries Group: Proposed originally by Ian Jensen in 2019 and the idea was supported by the Food Law PDG (Rosetta Newsome). In monthly meetings progress is followed in the designing of the template and the filling in for the various countries. The first overview was produced by Jeff Farber and was reviewed and approved by Health Canada, Canadian Food Inspection Agency and the Public Health Agency. Further ideas were to potentially involve Bob Bracket (he has a slide deck for US legislation, idea Katie Swanson), and additionally Arie Havelaar proposed to include the African Union, and potentially include Barbara Kowalczyk for data of Ethiopia. Caroline Smith DeWaal mentioned that documents for Nigeria were started. Also, Tania Martinez (check) mentioned her organization is doing a lot of work in Nigeria. Caroline suggested that connection to the Food Systems Dashboard could also provide information.

Mark Carter (board liaison), presented the announcements from the IAFP Executive Board: There are around 3000 attendees, about 80% of Pre-COVID attendance, also exhibitors are about 80% of normal. In making proposals consider the DEI-principles (Diversity, Equity and Inclusion) consider developing webinar series. Also consider donating for the foundation (the 4 for 40 campaign), this gives support for publications and meeting attendance. The mentor match initiative is working actively. *JFP* is in transition to Elsevier and becomes an OA journal (starting in January 2023). In 2023 the Annual Meeting will be in Toronto. Please be prepared and check your passport validity and potential visa requirements.

Kang Zhou (Food Safety Officer, Food System and Food Safety Division, FAO). Controlling the burden of food borne disease is essential for public health, economy and food security. Prevention is key in this control. In scientific expert meetings, the advice needs to be sound, responsible, objective, fair, transparent, and inclusive. There is a need for, for example, geographical spread and gender balance. Advice goes to Codex (198 countries and 1 union).

Kang gave an update on recent work of JEMRA and FAO: In 2021 two meetings took place on microbiological quality of water use in food production (focused on fisheries and dairy; fresh produce was already done in 2019), 4 meetings on hazards in fresh fruits and vegetables. In these cases, the chain analysis is going from farm to fork. There are planned meetings on *Campylobacter* (next year) and *Salmonella* (this year September 2022) in chicken meat, and QMRA of *Listeria* food (leafy greens, cantaloupe/rock melon, frozen vegetables, RTE seafood (24-28 October, 15 experts selected out of 100). 3 meetings took place on allergens, and one is planned for 2022. Priority allergens are cereal (gluten), crustaceans, egg, fish, peanuts, milk, tree nuts, sesame (soy deleted, sesame included). A paper came out about JEMRA in the journal "foods" (TwentyYearsJEMRA). Furthermore, 4 reports in the MRA-series were published no's 26, 27, 35 and 37.

26: Ranking of low-moisture foods in support of microbiological risk management: Meeting report and systematic review

27: Microbiological hazards in spices and dried aromatic herbs

35: Advances in science and risk assessment tools for *Vibrio parahaemolyticus* and *V. vulnificus* associated with seafood

37: Safety and quality of water used with fresh fruits and vegetables

Furthermore, the first allergen report was published: Risk assessment of food allergens: part 1

Overall, 20 years of JEMRA resulted in more than 40 publications, 20 Codex standards and their updates, almost 900 citations, over 370 experts (40% female and over last 5-8 years ratio is 1:1) and experts came from nearly 60 different countries. The World Food Safety Day (jointly initiated with FAO is showing good increased activity).

WHO update (video recorded) by Luz Maria De-Regil (Unit head multisectoral actions in food systems, department of nutrition and food safety, WHO). The WHO has a global strategy with 5 strategic priorities (strengthen national food control safety systems, responding to global changes, better use of information/science/QMRA in management decisions, stakeholder engagement and risk communication, safety essential in local/regional/international trade). Work should be evidence driven, people centered, forward looking, and cost effective. Overall ambitious targets are set as 40% reduction of food borne disease, 100% multisectoral collaboration mechanisms for food safety events, stronger national surveillance systems to detect and monitor foodborne disease and food contamination. A national food control system assessment tool (WHO/FAO) using 162 criteria was developed. The World Food Safety Day was now organized for 4 years (together with FAO) with a clear increasing trend of uptake, 450+ events, 106 countries active and 1.2 bln impressions on social media platforms. Furthermore, Health Talks on Food safety are organized: see <https://foodsafety.whohealthtalks.org>. Additionally, a food safety community of practice was launched the end 2021. Codex updates (see also before at FAO), there were many publications produced among others: pesticides residues in foods and microbiological risk assessment guidance in food. The Global Environment Monitoring System GEMS database was updated. The FAO newsletter can be requested at NFS@who.int.

Arie Havelaar (Uni Florida /WHO) gave an update on FERG2:

Previously the WHO Foodborne Disease Burden Epidemiology Reference Group (FERG) reported in 2015 (based on the status of 2010) their report and many background and specific publications. It clearly stipulates the relevance of foodborne disease being relevant (and also preventable), worldwide and for everyone. The burden is especially high for children below 5 and specifically in Africa. Four metals have been added that were not officially included in the previous WHO outputs. Resulting from the WHA73.5 resolution 2020 an update will be made of these first ever global estimates. New activities will start with the biggest change being the move to more national estimates versus regional. The work will be carried out over 2021-2024, and the first outcomes expected in 2025 and contribution from 26 new members. There will be some additional hazards (bacteria, parasites, toxins). There will be a new impact measurement task force and country support task force. Apart from DALYs, economic estimates will be made (including also the World Bank). Additionally, hazards with a low disease burden, where there is a lot of attention, will be focused on, to help prevent too stringent a focus and using the management systems in a cost-effective way as to not waste valuable food management resources, valuable food and hurting producers unnecessary. Overall, the system will also be made more easily updatable.

Questions: are aspects like salt/blood pressure included? No, it is not based on nutrition. Q: for chemicals like arsenic and mercury-lead, what is the issue related to them? The exposure

side is similar; but the health effect estimates are not bound (and can be much larger than the actual one), and the attribution methodology discussion is not solved yet. Q: what is the model for national burden estimates? There is not yet a default model.

New Business:

2023 Ideas for Program Submission (submission deadline 4 October 2022).

DeAnn Benesh: Could we create symposia for example from the WHO/FAO output just presented? Organize a webinar to help disseminate information on FAO/WHO or other organizations reports and manuscripts that are newly published (together with the IFPI PDG or any other relevant PDG given the subject). Furthermore, it is questioned how there is follow up of the FAO/WHO documents. together with the IFPI PDG or any other relevant PDG given the subject. Information can also be shared by joint symposia with the food safety education.

Caroline Smith DeWaal: Traditional food markets symposium (JFP study describes 4 regional guidance documents (of FAO/WHO) for traditional food markets, but these were very different, so it would be good to strive for more global standards.

Leon Gorris: Room for innovation for risk assessment and risk analysis, and how food systems work (organized together with Janell Kause): approaches for metrics for equivalence.

Jeff Read: symposium idea US food safety regulation compared to around the globe and how to balance regulation to meet other countries regulation systems going down to production/product level. Leon Gorris: built on to Jeff Read's idea with suggestions of adding room for innovation in risk assessment/analysis, getting a better understanding of how food systems work in other countries and assess risks of deviations from codex regulation (Food safety indicators).

James Cook (SGS) proposed as subject: E-commerce for seafood industry: regulatory requirements.

Lucia Anelich: the ready-to-eat conundrum challenge and opportunities: combine with Caroline (also include African Union Strategy).

Would it be useful to increase the number of meetings?: in general, the opinion was to hold PDG meetings once every two/three months: to develop ideas and keep the right pace. Since it is international PDG it would be best not to have a standard time but to alternate. It would be good to set meetings on the calendar, and skip if there are no agenda items. It could help to keep the flow in developing proposals for RT and Symposia, but also webinars.

Should we extend the chair/vice chair team with a secretary?: this would have as disadvantage that this would result in a 6 year's assignment, so no support was given to make this chance for the PDG.

Questions to the Executive Board: what is done for "Food Safety Day" by IAFFP?

Q: Regional IAFFP meetings, what is their frequency? There are some consistent and some rotating regional meetings from IAFFP in different regions in the world

For next year there will be a nominations procedure for the Vice Chair position.

Recommendations to the Executive Board:

1. Caroline Smith DeWaal proposed if there is an activity of IAFFP at World Food Safety Day (June 7)? And if not, it is advised to develop a strategy to also have communication/promotion of food safety at this day, since it is perfectly matching with our mission.

Next Meeting Date: July 16, 2023. Toronto, Ontario, Canada.

Meeting Adjourned: Motion to adjourn the meeting: Katie Swanson, seconded by Isabel Walls. Meeting adjourned 10:32 a.m. EDT.

Chairperson: DeAnn Benesh.

Low Water Activity Foods PDG

Attendees: Bradley Marks (Chair), Laure Pujol (Vice Chair), Shirin Abd, Aparna Tatavarthy, Gerardo Morantes, Becky Douglas, Xiyang Liu, Andrew Kearney, Ian Klug, Scott Burnett, MiKayla Mentzer, Danielle Chambers, Yawei Lin, Richard Brouillette, Kavita Patil, Manita Adhikari, Teresa Bergholz, Ian Hildebrandt, Erin Ducko, Philip Steinbrunner, Ren Yang, Yige Bima, Karina Martino, Larry Steenson, Shige Koseki, Reginald Benitez, Ben Graves, Hiroki Abe, Hardik Vyas, Kasey Nelson, Narindra Randriamiarintsoa, Kristen Hunt, Laurie Post, Yvonne Masters, Patrick Bird, Per Nielsen, Loni Rogers, Sanghyup Jeong, Elizabeth Grasso-Kelley, Christopher McNamara, Wenqing Xu, Ahnna Schulte, Julianny Rivera Calo, Pamela Wilger, Evan Rosen, Shihyu Chuang, Mrinalini Ghoshal, John Holah, Montserrat Iturriaga, Keith Ito, Anru Shen, Heather Garcia, Dharamdeo Singh, Amit Kheradia, Rico Suhalim, Leslie Thompson-Strehlow, Eric Ewert, Nate Anderson, David Rasmussen, David Legan, Nanje Gowda, Jennifer Acuff, Ashley Deaton, Anett Winkler, Lucia Anelich, Guy Tenenbaum, Erin Ramsay, Aaron Uesugi, Manpreet Singh, Shahram Ajamian, Xingchen Zhao, Chao Wang, Mari Schroeder, Katherine Kotrola, Kathy Knutson, Rocelle Grabarek, Tracie Sheehan, Wafa Birbari, Nadia Narine, Catharine Carlin, Molly Mills, Sripriya Agaram, Zhujun Gao, Hee Jin Kwon, Juming Tang, Weilin Shelver, Surabhi Wason, Long Chen, Isabel Walls, Brad Taylor, Zi Hua, Jeffrey Kornacki, Kali Siliveru.

Number of Attendees: 97.

Meeting Called to Order: 1:00 p.m. Eastern Time, Sunday 31, 2022.

Minutes Recording Secretary: Laure Pujol.

Old Business: Minutes of the June 29, 2021 meeting were approved by unanimous consent. Sessions supported by the PDG were reviewed.

New Business: Andrew Kearney, student liaison, presented update for the Student PDG. Anti-Trust Guideline were reviewed with the whole group. Julianny Riviera from Ardent Mills presented Food Safety Challenges – A Flour Industry Perspective. Based on feedback from other PDG, there was an open discussion on the frequency of meetings for this group. Two suggestions have come up, one about having a quarterly meeting for discussing the update on the symposia and roundtable and at the same time give the opportunity to students to present their work. Another idea was given about making webinars longer to give the opportunity to student to present before the webinar itself.

Symposia/Roundtable/Workshop ideas were discussed in the whole group meeting, based on input that was collected in advance of the meeting via an online survey (12 ideas initially). Other ideas came out from the audience and were integrated in the list of ideas. Some ideas were grouped together and prioritized for discussion based on interest on the subject from the attendees. Then, 5 work groups were formed and engaged in further discussion on each topic. Broad topics include: (1) cleaning and sanitation in LWAF with a potential link to the Sanitation PDG, (2) What is the appropriate target log reduction, (3) Environmental monitoring, and (4) Clean Breaks.

Recommendations to the Executive Board:

1. Recommends Brad Marks for approval as Chair and Laure Pujol as Vice Chair for upcoming terms.
2. It is recommended that the IAFP Meeting App be synchronized with the web-based / online meeting program, so that individual meeting plans can be made in advance and then synchronized into the app.
3. Request: that the Low Water Activity Foods PDG and Animal and Pet Food Safety PDG meetings at the 2023 Annual Meeting be scheduled to not conflict, as there is a very common overlap in members from Animal and Pet Food Safety into Low Water Activity Foods.

Next Meeting Date: Sunday, July 16, 2022, Toronto, Ontario, Canada.

Meeting Adjourned: 3:00 p.m. Eastern Time.

Chairperson: Bradley Marks.

Meat and Poultry Safety and Quality PDG

Attendees: Thomas Taylor (Chair), Melvin Carter, Denise Eblen, Eric Wilhelmsen, John Jarosh, Betsy Booren, Jody Swaim, Ryan Matsuda, John Schmidt, Glen Feller, Billy Hughes, Ben Graves, Kathleen O'Donnell, Jonathan Basha, Shanice Krombeen, Karen Beers, Mark Salter, Robert Campbell, Sampathkumar Balamurugan, Preetha Biswas, Kerri Gehring, Anthony Pavic, Robert Roe, Patricia Quinn, Bob Forner, Tyler Stephens, Mark Muldoon, Mick Bosilevac, Ian Hildebrandt, Narindra Randriamiarintsoa, Claudia Narvaez, Heath LaFevers, Scott Goltry, Suresh Pillai, Jason Scheffler, Erin Dreyling, Sally Wickramaratne, Jeremy Adler, Zachary Kuhl, Reginald Benitez, Suzanne Finstad, Alison Griffino, Isabel Walls, Juming Tang, Pete Kennedy, Jordan Nehls, Bet Wu Alvarado, Artistides Barahona Andrade, Barbara Masters, Subash Shrestha, Bill Potter, Kaylee Farmer, Justyna Kowalska, Elzbieta Fornal, Jena Roberts, Grace Dewi, Leena Griffith, Weilin Shelver, Jennifer Burke, Elizabeth Maeder, Greg DeVivo, Bill Patrum, Zi Hua, Gry Terrell, Sharon Nieves-Miranda, Sana Riaz, Mairui Gao, Leslie Thompson-Strehlow, Erica Miller, Tina Shaffer, Shuang Wu, Carine Nkemngong, Sharmeen Khan.

Board/Staff Present: Mark Carter, Emilio Esteban.

Number of Attendees: 75.

Meeting Called to Order: 9:04 a.m. Eastern Time, Sunday, July 31, 2022.

Minutes Recording Secretary: Caroline Dewi, University of Minnesota.

Old Business: Matthew Taylor, PDG Chair, called meeting to order and welcomed all attendees to the Annual Meeting of the PDG. He introduced himself and introduced Dr. Melvin Carter, PDG Co-Chair/Chair-Elect. Following the introductions, Dr. Taylor introduced Dr. Emilio Esteban as a member of the IAFP Executive Board to provide welcome and remarks on behalf of the Executive Board. Dr. Esteban introduced himself and commented on various actions being taken to improve IAFP's diversity and inclusiveness, indicating announcements were coming to demonstrate tangible methods to enhance organization diversity in membership and participation. Dr. Esteban encouraged attendees to pay attention to USDA science and regulatory updates coming later in the session and for attendees to attend the policy updates that will be provided by USDA leadership at a special session Monday afternoon of the Annual Meeting in Pittsburgh.

Following Dr. Esteban's comments, PDG Chair and Co-Chair invited the attendees to introduce themselves and provide name and professional affiliation. This was completed, and Chair Taylor encouraged that during later discussions of sessions the introductions could be useful for networking and session development. Chair Taylor provided some administrative announcements indicating that hard copies of the 2021 PDG meeting minutes were provided for attendees in addition to having been emailed through *IAFP Connect*. He encouraged attendees to be sure to activate notifications and email receipt in *IAFP Connect* so as to be aware of PDG-related activities and information. The 2021 meeting minutes were presented to attendees and Chair Taylor asked for any revisions to the minutes to be submitted. Receiving none, a motion was made by Betsy Booren to approve the minutes of the PDG's 2021 meeting (remote) as printed in *Food Protection Trends*. The motion was seconded by Emilio Esteban, and the motion was passed unanimously by vote (raised hand).

New Business: Dr. Melvin Carter was introduced to provide the USDA-FSIS Regulatory actions update presentation. He presented information pertaining to the agency's actions

regarding poultry sampling and establishment meeting the *Salmonella* performance standards by categorization. He further discussed efforts for *Campylobacter* data to propose new standards for carcasses and parts where FSIS labs have adopted Hunt broth for the enrichment and screening of *Campylobacter*. Pork performance standards were discussed next where he gave background and updates on the On February 16, 2022, published proposed pork performance standards where the focus is on sampling raw pork cuts and comminuted pork product for *Salmonella*. He went on to discuss changes with the New Swine Slaughter Inspection System (NSIS), because of the U.S. District Court for the District of Minnesota vacating a portion of FSIS' final rule. FSIS in collaboration with OSHA, offered a "time-limited trial" that enables establishments to experiment with ergonomics, automation, and crewing to create custom work environments with a purpose of ensuring food safety while protecting workers and increasing productivity. Dr. Carter discussed expansion of non-O157:H7 STEC verification sampling and analysis to all raw beef products that are currently tested for *E. coli* O157:H7. His update then focused on changes coming regarding egg products regulations resulting from the egg products final rule, published October 29, 2020. Appendices A&B were published December 2021, and Dr. Carter reported establishments utilizing previous versions as support should update to the 2021 Guideline. To ensure agency and industry education on the changes, the agency has completed 10 internal and external webinars on the Revised guidelines including two industry webinars in May with the two industry webinars being available on the FSIS website. He stated the agency had on-going study with ARS and FERN to address identified research gaps with Appendix A&B. One study recently concluded a market basket microbiological evaluation of the presence of *Clostridium perfringens* in large mass non-intact products, such as RTE Turkey breast and roast beef, that cannot be cooled to meet the recommended cooling options of Appendix B. He reported that while data had been completed for its collection, analysis was ongoing, and results would be made public and reported on the FSIS webpage. He concluded by identifying newly released generic HACCP models for various inspected products as well as some that will be published in the future.

Dr. Denise Eblen was then introduced and provided the agency's science update on scientific actions and activities engaged by the USDA-FSIS. She began by reviewing the agency's testing programming for microbiological and chemical materials in inspected products, reviewing the battery of tests that the agency routinely and intermittently performs. She discussed the various chemical food safety hazards the agency labs test for, the use of data, and the needs for improvement in testing methods for microbiological and chemical hazards. In the FY 2022, FSIS labs were reported to generate 2.9 million data points/results of testing from 130,000 samples. For years 2023-2024, Dr. Eblen stated the agency's scientific focus would be on seeking data to assist transforming the sampling of turkey carcasses for *Salmonella* and the optimization of sampling other poultry products for *Salmonella* detection, including development of triage procedures for presumptive *Salmonella* and enhancing the efficacy of differing enrichment media.

Dr. Isabel Walls from FSIS then reviewed the agency's identified research priorities and data gaps published on their agency website. New research priority additions were reported, including understanding *Salmonella* transmission along the poultry chain as well as consumer attitudes and behaviors related to food safety protection during preparation and consumption of inspected products. She identified a desire by the agency to improve pathogen detection and typing by use of MALDI-mass spectrometry. She reported opportunities for ORISE fellowships and the collaboration between FSIS and other USDA branches (e.g., ARS, NIFA, AMS) to improve/develop scientific data for policy development.

Dr. Mark Carter, USDA-NIFA, was then introduced to provide a review of NIFA's funding mechanisms and granting programs. He reviewed the Food Safety and Defense program as well as

other food safety-related/funding programs within the Agriculture and Food Research Initiative (AFRI) program, defining grant types, integrated versus standard projects, and identified agency contacts for research programs. He encouraged researchers to already have a grant narrative in development for coming deadlines and reviewed deadlines for relevant programs. He reported funding amounts were not expected to change for the next funding cycles, indicating a 15% funding success rate for proposal submissions.

Following agency reports, Chair Taylor led a session of attendees identifying and suggesting session ideas and proposals for symposia to be submitted for the 2023 Annual Meeting in Toronto, Canada.

Recommendations to the Executive Board:

1. The PDG membership recommends the PDG leadership initiates a position description and seeks nominees for a PDG Secretary.

Next Meeting Date: Sunday, July 16, 2023, Toronto, Ontario, Canada.

Meeting Adjourned: 11:53 a.m. Eastern Time (Adjourned by Matthew Taylor).

Chairperson: Matthew Taylor, Texas A&M University.

Microbial Modelling and Risk Analysis PDG

Attendees: Sofia Santillana Farakos (Chair), Abdullatif Tay (Vice Chair), Dimple Sharma, De'Anthony Morris, Abdullatif Tay, Yikai Yang, Panos Skandamis, Alejandro Mazzotta, Patricia Quinn, Gustavo Reyes, Minho Kim, Wan Zhan Lee, Gry Terrell, John Bassett, John Kotrola, Sampathkumar Balamurugan, Danielle Mayer, Sriya Sunil, Aljosa Trmcic, Marcel Zwietering, Kirk Dolan, Ashwini Wagh, Getahun Agga, Erdogan Ceylan, Arie Havelaar, Narindra Randriamiarintsoa, Barbara Kowalczyk, Juming Tang, Minji Hur, Subash Shrestha, Peter Bergholz, Andrew Kearney, Tyler Stump, Yawei Lin, Shige Koseki, Kento Koyama, Hiroki Abe, Hardik Vyas, Keith Ito, Shuyi Feng, Edmund Benefo, Charles Bakin, Laure Pujol, Emmanuel Onuoha, Mayra Marquez, Joshua Owade, Sarah Murphy, Cameron Parsons, Kristin Butler, Wilfredo Ocasio, Shirin Abd, Luca Coccolin, Heidy den Besten, Ian Hildebrandt, Alan Gutierrez, Charles Bency Appolon, Joelle Salazar, Hui Zeng, Diana Stewart, Philip Steinbrunner, Ingrid Zamora, Madison Goforth, Claudia Coronel-Aguilera, Shanice Krombeen, Jared Rivera, Deborah Briese, Marlee Mims, Hui-Erh Chai, Clare Narrod, Bet Wu Alvarado, Artistides Barahona Andrade, Darrell Donahue, Naveen Murthy, Angelica Godinez Oviedo, Zi Hua, Alex Puerta-Gomez, Manpreet Singh, James Barkley, Ariel Garsow, Cory Arant, Heather McLemore, Tracie Sheehan, Catherine Rolfe, Justyce Jedlicka, May Yeow, Julia Fukuba, Sanjana Laobangdisa, Christie Cheng, Angela Perdomo Reyes, Isabel Walls, Jiyoung Yi, Haknyeong Hong, Kristin Schill, Brendan Ring, Sejin Cheong.

Number of Attendees: 118.

Meeting Called to Order: 3:15 p.m. Eastern Time, July 31, 2022.

Minutes Recording Secretary: Abdullatif Tay.

Old Business: No issues were brought up related to old business.

New Business: Welcome and Agenda: Dr. Skandamis open the meeting with welcome message.

Antitrust policy: Dr. Skandamis reminded that the PDG members must follow the Antitrust policy that restricts to discuss any trade secrets, price fixing, and all related items related to antitrust policy. Motion to adopt 2021 PDG Meeting minutes which is published on the IAFP website MMRA 2021 PDG Meeting Minutes.

Incoming Vice Chair Abdullatif Tay was introduced.

Updates from SRA: The presentation was postponed.
Predictive Microbiology "wikithon": An update was provided

by Dr. Isabel Walls. **ICPMF updates:** Dr. Skandamis provided the update on ICPMF. One slide: ICPMF. International conference will take place in Japan on 13-16 June 2023. Presented board members/past board members. **ISO Group Update 23691:** Determination and use of cardinal values. Dr. Skandamis provided an update the effort to harmonize the way cardinal values are being determined and provide examples on how to use. Harmonized protocol to determine and use cardinal values for growth for: T, pH, a_w, inhibitors, etc. Standard for bacteria and yeast, not mold. Reach out to Mariem Ellouze for feedback and suggestions.

Guest speaker presentation: Dr. Brendan Ring "AI in QMRA and food safety."

Student Poster Award presented.

Chair explained the process and announced the awards, showing the certificates online. Students gave a 3-minute presentation: 2nd place: Gustavo Reyes, University of Illinois at Urbana-Champaign (US): Evaluating product testing combined with other strategies for reducing risks from pre-harvest contamination of *E. coli* O157:H7 on generic leafy green produce using a farm to facility simulation.

1st place: Ali Strickland, University of Minnesota (US): Quantitative Risk Assessment of *Salmonella* in Ground Beef.

Symposia/roundtables accepted/rejected for 2022 Excel posted on *IAFP Connect* library of the community. Webinars and other communication activities Webinars listed and Future Webinars encouraged. Future symposia/roundtables/workshop proposals See addendum. Any other businesses/Dissemination activities.

Recommendations to the Executive Board:

1. Possibility of recording the future MMRA PDG meetings was recommended.

Next Meeting Date: Sunday, July 16, 2023, Toronto, Ontario, Canada.

Meeting Adjourned: 5:00 p.m. Eastern Time.

Chairperson: Sofia Santillana Farakos (Chair), Panos Skandamis (Outgoing Chair).

Plant-Based and Alternative Products PDG

Attendees: Yanyan Huang (Chair), Aaron Pleitner (Vice Chair), Mathew Bartkowiak, Kantha Shelke, Jaclyn Merrill, Mileah Shriner, Catherine Sander, Urvi Shah, Deepa Thiagarajan, Jesse Miller, Alejandra Ramirez, Robert Price, Stephen Grove, John Bassett, Harneel Kaur, Joe Holt, Gry Terrell, Chris Rupert, Rocelle Grabarek, Judith Hajdenwurcel, Lijun Hu, Kent Juliot, Kristin Schill, Hui-Erh Chai, Brad Taylor, Todd Napolitano, Megan Rose-Martel, Emmanuel Onuoha, Ruth Petran, Steve Taylor, Erica Bendix, Sarita Raengpradub, Michael O'Rourke, Juming Tang, Patricia Rule, Olivia Arends, Vinayak Ghate, Magdalena Olszewska, Justyce Jedlicka, Jignesh Rasanina, Ryan Maus, Ingrid Zamora, Melanie Downs, Joe Baumert, Sanjana Laobangdisa, Sakshi Lamba, Steve Tracey, Guodong Zhang, Hui Zeng, Kangming Ma, Lily Yang, Hany Anany, Ivonne Litwin, Sampathkumar Balamurugan, Stefano Luccioli, David Crabtree, William Whitman, Helen Taylor, Nic Sharman, Marvin Mitchell, Jr., Vijay Krishna, Margaret Kirchner, Katie Overbey, Emily Kingston, Maayan Abramovich, Evan Henke, Daniel Smieszek, Varalakshmi Sudagar, Makena Brand, Erin Dreyling, Will Gannon, Naveen Murthy, Jody Swaim, Grace Kringle, Calvin Slaughter, Amanda Yackley, Katherine Qu, Ava Weyrich, Gabriella Gephart, Weilin Shelver, Adeniyi Odugbemi, Adejare Adegbuyi, Jeff Farber, Angela Anandappa, Niam Abeywardena, Bledar Bisha, Rafael Ferreira, Robert Brackett, Lisa Lupo, Yuewei Hu, Shannon Koerber, Luciana Salles, Subash Shrestha, Gregory Siragusa.

Number of Attendees: 98.

Meeting Called to Order: Sunday, July 31, 2022.

Old Business: None.

New Business: Executive Summary: Scope of this PDG is to cover PB and alternative proteins (cultured meat, insect proteins, and air proteins): Lily Yang will lead our cultured meat sub-committee. We need volunteers to lead insect protein and air proteins.

Topics to be covered by this PDG: Unique and specific risks to PB and alternative products on Micro, Allergen, Chemical for food safety and quality, Regulatory, labelling, nutrition and consumer perspectives; Testing methods specific for PB and alternative products; Academia: research and safety data sharing.

Submit abstract before Oct. 4, 2022 for 2023 program. Please volunteer and communicate to Yanyan Huang and Aaron Pleitner if you are willing to be part of the program planning. We will host a workshop to finalize this. Stay tuned!

Please volunteer to speak at one of the webinars.

Topics discussed: Scope of the PDG: should the PDG only cover PB? Or should the PDG cover other alternative proteins: cultured meat, insect proteins, and air proteins.

Proposed decision: cover PB and alternative proteins, PDG to serve as contact for industry of new and novel products that do not have the competency to identify and mitigate hazards, form subcommittee to lead on each alternative proteins. If you are willing to lead one of the three categories (Cultured meat, insect proteins, and air proteins), please contact Yanyan Huang and Aaron Pleitner

Food safety (Micro, Chemical, Physical, Radiological, Allergen): Identify the unique and specific Food Safety risks to each type of PB and alternative product; Novel processes (e.g., soy extraction) vs just soy for tofu, impacting overall safety and quality stability of the product; Also, increase frequency and volume of consumption per consumer; Impact of natural vs derive vs synthesized ingredients

Micro: Insect proteins and micro hazards w/ preventive controls; What does it look like on the consumer endpoint, Alternative proteins - identification of hazards and risk, C. bot 10 day rule still apply? What about algae? What about shared ingredients and mixing of microflora, Ingredient safety (and testing methods), Spore formers in ingredients, GAP analysis missing or not executed on with hazards, Mixing or hybrid products (and how does one do predictive micro and risk analysis)

Chemical: Insect protein, Chemical contaminants, Allergen- True unknown for allergenicity of things like cell culture and insect, What is the true allergen profile?

Ingredient safety: micro on food safety and spoilages; How does one set up their Food Safety plan when a hazard is not necessarily known? Intrinsic risks to materials as well as shared line carry over of unknown risks; Cell cultures - what goes into production and who is the government entity overseeing?

Quality (spoilage, shelf life, appearance, taste...) The decision is to have different subcommittee for Micro, Chemical, Allergen but not dividing into food safety and quality and ingredient safety. Please volunteer to be subcommittee leaders for Micro, Chemical, and Allergen.

Terminology: Could we be a driver for standardized lingo/ language (i.e., what is cultivated meat, what is plant-based 'milk', how to name insect proteins, etc.)

Combine regulation, labelling, nutrition and consumer perspectives into one subcommittee: Regulation (EFSA joint CODEX committee, FDA, EU) Combine with Labeling but also split between Food Safety and Nutrition, Only intervene is truly used inappropriately or could cause harm (from FDA speaker), Labeling (soy-free, vegan, nutrition), Education for consumers w/ sensory performance (e.g., Vegans not liking IF): CFP conference for alignment in US, EU as well for standard of identify, Nutrition, Consumer perspectives: Vegan preferences, perception, Sustainability and impact on planet, 'Healthier'.

Testing methods - No dedicated methods in ISO or BAM, Patricia Rule from BMX can be our leader on this subcommittee.

Greater Academic perspective - Warrants increased efforts for data sharing and perspective, Provisional patents having an impact on all this.

Others: Predictive Methodology; Cultured media PB source; Antimicrobial Resistance concerns for PB: Highest topics - academic, test methods, food safety (micro/chem/allergen), and all above.

2023 Program Planning: Symposia, Roundtable, Technical Session, Process validations, Sanitation, Testing methods, Poster Session, Workshop.

Recommendations to the Executive Board: None.

Next Meeting Date: Sunday, July 16, 2023, Toronto, Ontario, Canada.

Chairperson: Yanyan Huang.

Retail and Foodservice PDG

Attendees: Tia Glave (Chair), Andre Pierce, Elizabeth O'Malley, Kimberly Destromp, Victoria Burgess, Ryan Dittoe, Chip Manuel, Rick Kralj, Ann Marie McNamara, Jason Udrija, Larry Kohl, Eric Moore, Jonathan Basha, Lauren Hamilton, Jean Edsall, Paula Herald, Jack Burnett, Dale Grinstead, Chris Boyles, Ellen Messinger-Patton, Mia Gzebb, Monica Garcia, Rob Middendorf, Rachel McEgan, Cory Ortego, Zeb Blanton, Brian Ramsaur, Kathleen O'Donnell, Manpreet Singh, Jeannie Kim, William Whitman, Melissa Vaccaro, Barry Parsons, Allison Howell, Jill Hollingsworth, Hui-Erh Chai, Amit Kheradia, Bertrand Emond, Tim Gillam, Benjamin Chapman, Enrique Zuniga, Ellen Shumaker, Kevin Edwards, Leena Griffith, Sarah Kozak-Weaver, Chris Rupert, Mary Yavelak, Sarah Cope, Adrienne Shearer, Lily Yang, Deepa Thiagarajan, Kim Bingham, Tatiana Lorca, Makena Brand, Suresh Pillai, David Buckley, Guodong Zhang, Dina Scott, Deborah Briesmeister, Lee-Ann Jaykus, Carmen Cano, Juming Tang, Brandon Voga, Evelyn Watts, Katheryn Parraga, Robert Corsino II, Rocelle Grabarek, Nancy Flores, Ellen Evans, Abhinav Mishra, Tanesia Cole, Govindaraj Dev Kumar, Efstathia Papafragkou, Caroline DeWaal, Akhila Vasan, Jian Shi, Magdalena Olszewska, Nitin Dhowlaghar, Steve Tracey, Chris Jordan, Dave Hill.

Number of Attendees: 81.

Meeting Called to Order: 10:09 a.m. Sunday, July 31, 2022.

Minutes Recording Secretary: Lauren Hamilton.

Old Business: Tia Glave covered a summary and approval of last meeting's minutes and reviewed symposia/roundtables of accepted 2022 Annual Meeting. Board Liaison Dr. Sigh University of Georgia, incoming secretary Board Updates. Eric Moore, outgoing chair for PDG introduced the meeting and Tia Glave the incoming chair. Tia Glave, encouraged ideas for the PDG and encouraged ideas for future webinars. She introduced Briana Lorenzo, incoming vice chair, who could not be present and reviewed the IAFP Antitrust Guidelines. Eric Moore acknowledged award winners who were present.

New Business: Tia introduced Kimberly Destromp Branch Director, Division of Retail Food Protection, FDA who gave a presentation on the New Era of Smarter Food Safety presentation. The focus was on tech-enabled traceability, smarter tools and approaches for prevention and outbreak response, new business models and retail modernization, and food safety culture.

Ellen Prediger from SC State gave an update on their virtual course delivered to the FDA staff along with Cultivate and Stop Foodborne Illness. First hour was asynchronous and covered definitions, etc. followed by the live course.

Student Liaison, Lauren Hamilton, gave an update on the Student PDG "Meet your favorite food scientist," "3-Minute thesis competition (3MT)," and Proposal Submissions.

Tia asked that 2023 Symposium ideas and webinar ideas be proposed. Richard suggested Food Safety Culture Design Session, Caroline Smith DeWaal from the Global Alliance of Food Nutrition suggested a session on traditional markets, re-submission of the proposal for Active Managerial Control was suggested. Lee-Ann Jaykus from NC State suggested a session on Norovirus in retail food (FSC, regulatory issues, prevention, control) in a three presentation short symposium, Tripp Daniel suggested the session on Hand Hygiene should be resubmitted as a 4 or 6 part presentation, David Buckley from Diversey Antimicrobials noted that the EPA is changing their labeling requirements and suggested to get the EPA involved and how the change will impact community, Chris Jordan from Diversey suggested involving the Data and Analytics PDG for a session on practical applications of data, how it is put together, and how to use it and asked that those PDG groups do not overlap meetings next year. Dr. Dale Kernstead noted that disinfectants are getting heavier use but food code does not currently cover this, however they are working on it so a session could be given on this issue. Chris Boyles noted he was working on framework to measure FSC with 7 pillars of food safety surveying managers at different levels of the organization and incorporating that data into a symposium next year could be useful.

Recommendations to the Executive Board:

1. Recommend Briana Lorenzo as Vice Chair.

Next Meeting Date: Sunday, July 16, 2023, Toronto, Ontario, Canada.

Meeting Adjourned: 11:26 a.m. Sunday, July 31, 2022.

Chairperson: Tia Glave.

Sanitary Equipment & Facility Design PDG

Attendees: Rick Stokes (Chair), Dimitri Tavernarakis (Vice Chair), Steven Sims, Greg Janzow, Richard Jacobs, Dale Grinstead, Erin Ducko, Gerardo Morantes, Joemel Quicho, Tracie Sheehan, Sanghyup Jeong, Ian Klug, Kasey Nelson, John Merenick, Nathan Mirdamadi, Charles Giambone, Richard Brouillette, Angela Anandappa, Niam Abey Siriwardena, Eric Ewert, David Rasmussen, Steve Walker, Daniel Bair, Daniel Schaffer, Kate Nicholas, Caio Carvalho, Benjamin Warren, Cory Ortego, Sandy Sim, Timothy Rugh, Drew Mohnen, Chad McCune, April Bishop, Mark Morgan, Evan Rosen, Daniel Erickson, Dave Blomquist, Taozhu Sun, Romy Yu, John Holah, Raghu Ramaswamy, Leena Griffith, Curtis Weller, Per Nielsen, Girdhari Sharma, Sefat Khuda, Stine Lønnerup Bislev, Samantha Bolten, Abigail Aba Mensah, Bob Banerjee, Jonathan Brackahn, Badrinath Vengarai Jagannathan, Mark Carter, Angela Fraser, Rick Heiman, Debra Smith.

Number of Attendees: 56.

Meeting Called to Order: 3:15 p.m. Eastern Time, Sunday, July 31, 2022.

Recommendations to the Executive Board:

1. Attendees are having difficulty participating in desired PDGs because of the recent additions to the number of PDGs. This PDG recommends the board review means to alleviate these scheduling difficulties through either consolidation of some PDGs or recording live PDGs at the Annual Meeting for membership review.
2. There was a recommendation to establish a secretary position for the Sanitary Equipment and Facility Design PDG and begin the process of collecting nominees. This group would vote on the candidates at a future PDG meeting.

Next Meeting Date: Sunday, July 16, 2023, Toronto, Ontario, Canada.

Meeting Adjourned: 5:00 p.m. Eastern Time.

Chairperson: Rick Stokes.

Seafood Safety & Quality PDG

Attendees: Jessica Jones (Chair), Jacqueline Woods (Vice Chair), Brandon Voga, Keith Amoroso, William Burkhardt, III, Monica Garcia, Cathy Liu, Patti Ross, Tori Stivers, Sharmeen Khan, Johnathan Likens, Tanesia Cole, Salina Parveen, John Boyce, Robert Corsino II, Kathryn Parraga, Evelyn Watts, Rachel Rodriguez, Marlee Mims, Kristin Butler, Andrea Cerrato, Jennifer Burke, Elizabeth Maeder, Anuradha Punchihewage Don.

Number of Attendees: 24.

Meeting Called to Order: 1:03 p.m. July 31, 2022.

Minutes Recording Secretary: Andrea Cerrato.

Old Business: Jessica started the meeting giving the welcome to everyone and reading the Executive Board announcements. Andrea presented the different activities the Student PDG has been doing and how the Seafood Safety & Quality PDG can get involved during this new period. Jackie reviewed the Rules of Order and Antitrust guidelines for everyone.

Reviewed 2021 Recommendations to the Board and responses: confirmed the nomination of Jacqueline Woods as Vice Chair and in response to the recommendation that a mechanism to include calendar reminders with meeting/webinar announcements be provided, the Board encouraged the use of *IAFP Connect* to make announcements and reminded that webinars do include a calendar reminder. Jessica clarified that a call for nominations and subsequent voting will be conducted virtually in the spring. Additionally, reviewed the Seafood Safety and Quality PDG sponsored or co-sponsored sessions at the 2022 IAFP Annual Meeting.

New Business: Presentation “Effects of Aquaculture Practices on Oyster Microbiomes and *Vibriosis* Using Shotgun Metagenomics” by Salina Parveen from University of Maryland Eastern Shore. Presentation “Dynamic Changes in Bacterial Communities during Seafood Decomposition” by Kristin Butler from the FDA Gulf Coast Seafood Laboratory. Brainstorming discussion on session proposals for 2023 IAFP Annual Meeting. Multiple ideas developed and champions/points of contact identified for six topics. Session proposals for the topics will be further developed and refined via email/virtual meetings prior to the submission deadline. Additionally, discussed and agreed upon recommendations for the Board (as provided below).

Recommendations to the Executive Board:

1. Recommend the Board schedule PDG meetings so that PDGs likely to be of interest to the same attendees are at different times. For example, there is much overlap in interest between the Virus & Parasite PDG and both the Seafood Safety & Quality and Produce Safety PDGs.
2. Recommend the Board encourage the Program Committee to avoid scheduling symposia/sessions for specific topics (e.g., seafood) at the same time as when the poster presenters for the same topic are required to be available.

Next Meeting Date: July 16, 2023, Toronto, Ontario, Canada.

Meeting Adjourned: 3:01 p.m.

Chairperson: Jessica Jones.

Student PDG

Attendees: Claire Murphy (Chair), Ellen Mendez (Vice Chair), Kaylee Farmer, Erika Estrada, Erin Ramsay, Manita Adhikari, Kavita Patil, Cyril Nsom Ayuk Etaka, Carmen Cano, Lang Yao, Auja Bywater, Camryn Cook, Riya Magiya, Ian Klug, Kasey Nelson, Andrew Kearney, Makenzie Flach, Vishal Manjunatha, Ava Weyrich, Gabriella Gephart, Andrea Cerrato, Minji Hur, Alexis Omar, Kyle McCaughan, Margaret Kirchner, Ian Hildebrandt, Narindra Randriamiarintsoa, Mari Schroeder, Wan Zhan Lee, Joshua Owade, Tlaleo Marole, Savana Everhart, Grace Dewi, Nadia Narine, Aaron Aboud, Rosa Heydenreich, Francis Muchaamba, Clara Diekman, Laura Pineda-Bermudez,

Mairui Gao, Aaron Dudley, Sana Riaz, Ali Strickland, Emily Forauer, Eric Edmunds, Anand Soorneedi, Solomon Racharla, Haknyeong Hong, Savannah Stewart, Erin Manville, Olivia Haley, Weifan Wu, Yaxi Dai, Karuna Kharel, Jyoti Aryal, Tengfei Li, Kayla Kimble, Taejung Chung, Marysabel Mendez Acevedo, Tim Lott, Sriya Sunil, Shihyu Chuang, Jack Burnett, Patrice Bonny, Alexia López Gachuzo, Manuel Alejandro Vega Iturbe, Edmund Benefo, Shuyi Feng, Aishwarya Rao, Keshnee Reega, Madison Goforth, Kiley Doherty, Jennifer Mydosh, Graham Houle, Hui-Erh Chai, Joseph Meyer, Brian Goodwyn, Evelyn Watts, Ruixi Chen, Urvi Shah, James Barkley, Loron Pinnock Brown, Charles Bakin, Harmeen Prasher, Brad Taylor, Kathryn Parraga, Robert Corsino II, Lauren Hamilton, Makena Brand, Ariel Garsow, Ikechukwu Oguadinma, Dina Scott, Adam Baker.

Number of Attendees: 94.

Meeting Called to Order: 11:05 a.m. Eastern Time, Sunday, July 31, 2022.

Minutes Recording Secretary: Surabhi Wason.

Old Business: The chair went over the IAFP anti-trust guidelines with all student members. Incoming Chair bid farewell to the outgoing board. All the board members (new and previous) introduced themselves. The instruction to join PDG using *IAFP Connect* were given. Chair updated on the activities of last year. Meeting was conducted every month last year. There was lot of engagement for SPDG elections this year. Twelve people ran for elections in the month of April and board members were announced in the first week of May. Incoming PDG board members wore Hawaiian garlands to be easily recognizable by students for any help and to connect.

All the student focused-focused activities in 2021-2022 were successful including, mentor-mentee program, student liaisons program, affiliate connection, trivia nights, coffee hours, and 3 MT competition; there were new sponsorship and partnership with industry and local affiliates – Cargill, Merck, Arkansas Association for Food Protection, Tyson foods, Chobani and New Jersey and California association of Food Protection. The instructions to participate as a mentor or a mentee were provided. We had 27 student liaisons supporting PDGs and Committees today. The affiliate representative increase student engagement with other food safety professionals. It is helpful for international student to build connections. Virtual coffee hours and trivia nights saw lot of engagement. It is a great way to meet other students and play games to get prizes. Attendees were encouraged to check emails from SPDG for such information. Meet your favorite food scientist was a new activity developed couple of years ago. It allowed students to connect with 8 world class scientists from academia, government and industry. Around 50 students all over the world came to at least one of these meetings. We won't be able to sell t-shirts or stickers this year, it will probably start from next year. However, everyone was encouraged to consider donating money to foundation as it funds lot of SPDG activities and student travel scholarship. We would also like to extend our thanks to IAFP staff for their guidance and help during past and future activities.

New Business: New IAFP SPDG Instagram page has been opened where updates and other new activity information will be posted. We encouraged everyone to join us on Instagram and LinkedIn for updates. This year, SPDG has booth 925 where students can stop by to get some rest or connect to other attendees and make connections. All students are welcome to attend 3 sessions (2 symposia and 1 RT) sponsored by SPDG this year. There are other networking opportunities during Annual Meeting – student luncheon (July 31st Sunday); student mixer (Tues, Aug 2nd) and coffee hours (virtual). Session monitoring activity, rules and information on how to get paid were explained. Students were encouraged to fill out student liaison survey and be a liaison to PDGs and committees. There will also be fall and spring social hours. Attendees were informed about session proposal submissions on an area related to food safety, that is emerging and unique. Dr. Don Schaffner presented about how to communicate science to a lay audience using social media and podcasts.

Recommendations to the Executive Board:

1. Recommend Ellen Mendex Sosa as Vice Chair for the year 2022-2023 board.
2. Student booth at the exhibit hall for next year as well.
3. Bigger room for Student PDG for next year.
4. Joshua, post doc at Michigan State, recommends that the scholarship awardee announcement be announced earlier enough for international students to get enough time for visa application.
5. Joshua also recommended – specify different African countries (who is from where) and not just mention as ‘African countries’.

Next Meeting Date: Sunday, July 16, Toronto, Ontario, Canada.

Meeting Adjourned: 12:01 p.m. Eastern Daylight Time.

Chairperson: Claire Marik Murphy.

Viral and Parasitic Foodborne Disease PDG

Attendees: Julie Jean (Chair), Kristen Gibson (Vice Chair), Lindsey Bowen, Simon Bouchard, Julie Jean, Graham Houle, Rob Donofrio, Chip Manuel, Margarethe Cooper, Preetha Biswas, Martin Duplessis, Devin LaPolt, Michala Krakowski, Hediye Cinar, Kyle McCaughan, Brienna Anderson-Coughlin, Alexis Omar, Eva Chatonnat, Kim Manseau-Ferland, Gabrielle Pageau, Laurence Pélouquin, Mathilde Trudel-Ferland, Keith Lampel, Socrates Trujillo, Mauricio Durigan, Quynh-Nhi Le, Partesha Verge, Tim Jackson, Joyce Njoroge, Hailey Davidson, Rebecca Anderson, Laura Ewing, Karen McWilliams, Karen Pietrzen, Marianna Solorio, Yves Oukouomi-Lowe, Patrice Bonny, Efstathia Papafragkou, Samantha Wales, Sanjay Gummalla, Jeremy Faircloth, Season Xie, Harmeen Prasher, William Burkhardt, III, Mario Leone, Carine Nkemngong, Xinhui Li, Alvin Lee, Donna Garren, Erin Crowley, Gurpreet Kaur Chaggar, Lauren Hamilton, Zeb Blanton, Joseph Meyer, Juhong Chen, Carl Custer, Denise Eblen, Paula Herald, Michelle Kotler, Caroline Smith DeWaal, Amani Babekir, Akhila Vasan, Amandeep Dhillon, Ariel Garsow, James Barkley, Allison Howell, Kali Kniel, Gale Beard, Lee-Ann Jaykus, Shelly Ritschard, Emily Kingston, Margaret Kirchner, Tanesia Cole, Ava Weyrich, Gabriella Gephart.

Number of Attendees: 75.

Meeting Called to Order: 1:00 p.m. Eastern Time, Sunday, July 31, 2022.

Minutes Recording Secretary: Pragathi Kamarasu.

The meeting was called to order by Julie Jean (Chair). Julie introduced herself and welcomed everyone. All attendees were invited to introduce themselves. Then, Julie gave an overview of the agenda. Anti-trust guidelines were reviewed by Kristen Gibson (Vice Chair)

Old Business: The minutes from IAFP 2021 PDG meeting were approved with no modifications.

New Business: Four main topics were on the agenda.

IAFP Announcements: Updates from the IAFP Executive Board were provided. Julie Jean (Chair) read the updates. These updates and announcements included the following:

2022 Meeting Updates – We expect close to 3,000 attendees at the Annual Meeting this year, that’s about 75-80% of the attendance pre-pandemic in Louisville. Exhibitors are at about 80% of normal, please take time to visit them on the exhibit floor and participate in the explore the floor passport (it’s in your bag), to win some awesome prizes! Special thanks to Giant Eagle for all their support with local arrangements!

PDG Updates – Please remember to submit your PDG minutes and board recommendations. Please respond to IAFP office requests through *IAFP Connect*. As you move forward developing symposia for 2023, please pay attention to DEI principles. Also consider developing webinars, or webinar series.

Donate to the IAFP 4 for 40 campaign! A number of exciting ideas are under development, that include publication support, and meeting attendance support. The Mentor Match program is ongoing – please consider participating. We are excited about the *JFP* transition to Elsevier, representatives will be present at the *JFP/FPT* booth on the exhibit floor to answer any questions you have.

2023 Meeting – Please remember this meeting will be in Toronto, Canada. Check your passports to see if they have expired. Apply early if you need a visa.

Highlights from the IAFP 2022 program relevant to the PDG: Julie reviewed accepted sponsored or co-sponsored proposals including symposia and roundtables. There was also a note about numerous posters and technical sessions that will be presented and are relevant to the Viral and Parasitic Foodborne Diseases PDG.

Update on foodborne parasitic diseases: (Tim Jackson, FDA; Brianna, University of Delaware)

Tim discussed updates specifically on *Cyclospora* with an industry and regulatory perspective. The industry side is primarily concerned with the lack of control measures, especially if found in the water or soil—what can be done once it is there? One of the challenges is understanding how different factors influence the incidence/prevalence of *Cyclospora* in the production environment. There is also a need to determine/validate test methods for *Cyclospora* as well as identify suitable surrogates. Tim also mentioned that there is ample funding available for research. It was stated that Alexander Da Silva leads a research team within the FDA and commented on the seasonality of *Cyclospora*. A *Cyclospora* response action plan is available, and there is an international committee to discuss the plan.

Brianna (University of Delaware from Kali Kniel’s lab) provided some updates on research related to *Cyclospora*. There are difficulties with PCR assays for *Cyclospora*. Groups have been collecting water samples with some presumptive *Cyclospora* and confirmed positive *Cyclospora* in samples from April to August. Pond samples (n=33) have been analyzed by PCR; toilet samples (n=26) have been collected but not analyzed. Talks related to *Cyclospora* research at IAFP were noted.

Update on viral foodborne diseases: Audience was asked for any updates that may be relevant. Kristen Gibson asked Efi Papafragkou about the recent press release from the FDA regarding the culmination of the study on berry testing for Hepatitis A virus and human norovirus, specifically related to the indication that funding/research partnerships would be pursued in the future. Efi indicated that the FDA would make those decisions once the study was concluded.

In preparation for IAFP 2023 in Toronto, Canada, July 16 to July 19, 2023, roundtable and symposia topics were suggested and discussed: PDG participated in breakout groups to consider important questions and areas of research related to viral and parasitic foodborne diseases that would be good symposium topics for IAFP 2023. Ideas have been listed based on group sharing.

Group 1 – Discussed viruses in shellfish and the application of metagenomics for detection of emerging viruses. There was also mention of transmission of herpes virus via food/sharing of food which may be of interest. Prevention of noroviruses in different types of restaurants (e.g., full-service, fast casual, etc.).

Group 2 – Discussed surface chemistry and how it affects the persistence of viruses in food products. How does virus infectivity change over time when persisting on a surface? Group discussed need to update information on surrogates. Also mentioned the need to predict shedding concentration of SARS-CoV-2.

Group 3 – Discussed the need to establish/explore a threshold for infectious virus particles and/or protozoa in food—what would be the level that triggers a recall? Also, what are the implications of identifying contamination in a product for export/import on relationships between governments?

Group 4 – Interpretation of molecular “yes”.

Group 5 – Impact of climate change on infectious disease epidemiology, specifically protozoan parasites are not typically investigated.

Group 6 – Utilization of virus and protozoan surrogates during method development.

Group 7 – Sharing information and access to it. Standardization across research labs?

General Announcement: It was mentioned that we will be electing the Vice Chair in spring 2023 so please consider nominating yourself or others.

Recommendations to the Executive Board: None.

Next Meeting Date: July 16, 2023, Toronto, Ontario, Canada.

Meeting Adjourned: 2:45 p.m. Eastern Time.

Chairperson: Julie Jean.

Water Quality and Safety PDG

Attendees: Leon Gorris (Chair), Daniel Weller (Vice Chair) Claire Murphy, Chantal Nde, Leon Gorris, Quynh-Nhi Le, Rob Donofrio, Autumn Kraft, Kang Zhou, James Widmer, Laura Pineda-Bermudez, Socrates Trujillo, Elizabeth Bihn, Manreet Bhullar, Diana Hao, Mauricio Durigan, Tahirah Johnson, Jasmine Smalls, Nikki Shariat, Connie Fisk, Olivia Haley, Pete Kennedy, Jie Zheng, Eric Stevens, Julie Haendiges, Collins Buggingo, Leslie Hintz, Manan Sharma, Adam Baker, Jitu Patel, Ana Allende Prieto, Sean Fogarty, Aishwarya Rao, Miguel Gutierrez, Shuopeng Yang, Yuqian Lou, Theresa Mazure, Rachel Rodriguez, Sarita Raengpradub, Ali Parvanehvar, Julie Kase, Guodong Zhang, Amy Sicheloff, Adriana Jimenez Lopez, Greg Komar, Laurie George, Peter Kennedy, Steve Murphy, Joshua Gurtler, Cangliang Shen, Annalisa Hultberg, Donna Clements, Phillip Tocco, Don Stoeckel, Elisabetta Lambertini, Devin LaPolt, Michala Krakowski, Brian Goodwyn, Carl Custer, Alda Pires, Cameron Bardsley, Alexis Hamilton, Cyril Nsom Ayuk Etaka, Anett Winkler, Matthew Hahs, William Burkhardt, III, Jessica Jones, Jacqueline Woods, Michelle Smith, Diane Ducharme.

Number of Attendees: 68.

Meeting Called to Order: Sunday, July 31, 2022.

Minutes Recording Secretary: Olivia Haley, Student Liaison.

Old Business: We started the annual in-person PDG meeting with self-introductions from Leon (current President), Dan Weller (current Vice-President, incoming President) and Olivia Haley (student liaison). Leon also recognized Phyllis Posey (secretary) and Elisabetta Lambertini (prior President). We moved forward with brief introductions from the audience members and then Leon reviewed the agenda for the day's meeting. Leon asked if any audience member would like to add a topic to the agenda; no further topics were raised.

We discussed the 2021 PDG Meeting Minutes and a motion was made to adopt the minutes; the motion was seconded and there were none opposed. Afterwards, Leon reviewed the responses from the 2021 recommendations to the IAFP board, which did not raise immediate discussion.

New Business: Next, Leon and Olivia provided an overview of the sessions accepted for this year's IAFP program which were co-sponsored by the PDG and provided an overview of sessions which the audience may find of interest. The PDG's frequent collaboration with the Fruit and Vegetable Safety PDG was noted, and audience members were invited to think of additional PDGs with which we can form collaborative efforts.

There were six planned speakers to update on different topics of interest to the PDG: Manan Sharma, Elisabeth A. Bihn, Claire Murphy, Olivia C. Haley, Kang Zhou, and Phyllis Posey. The latter two provided updates from an international perspective. Then the floor was opened for impromptu short updates from the audience members. Sean Fogarty provided an update.

We then started brainstorming ideas for sessions at IAFP 2023 and/or the European IAFP 2023 meetings. In a lively discussion some 15 ideas for symposium of RT session were developed, and other possibly interested PDGs identified.

With International Food Protection Issues PDG: 1. Water treatment technologies for resource-limited environments; 2. Microbial risk management of water in resource challenged areas; 3. One Health and Water; How climate change with affect water quality.

With the Food Safety Education PDG: 1. Roundtable on careers in water safety (also with Student PDG?); 2. Symposium on the science of plant-water-microbe interactions.

With the Preharvest Food Safety and/or Fruit and Vegetables Safety & Quality PDG: 1. Lessons learned from the water data (i.e., from SWARMS, NARMS); 2. It takes a village part II: Background and guidance on the updated Agricultural Water Safety. 3: The basics. 4. Improving grower understanding of preharvest agricultural water.

Advanced Molecular Analytics PDG: Water Microbial Contamination and Environmental Sampling.

With support of DEI council? LGBT perspectives and experiences in food and water safety and quality.

On webinars, Leon suggested to organize a series of four sessions on the microbiological risk assessments reports developed by FAO/WHO for Codex Alimentarius: general principles, application to produce, fisheries and dairy. Collaboration would be thought with the respective PDGs.

There was also an idea to stage a non-commercial workshop on these reports on the Saturday before IAFP 2023.

These various ideas were recorded in an Excel Sheet and the lead contact for each session and their contact information was recorded to follow up on the session planning progress at a later date before final submission on 4 October 2022.

It was suggested that within the PDG we will have a pre-submission date so the officers of the PDG and those of supporting PDGs would have time to review the final proposals in time for the ultimate deadline. Because there were so many proposals and ideas, it was concluded that a PDG discussion over conference call early September would be beneficial to take stock of the stage of development of various proposals in time to resolve and resolve issues. The dates for the PDG conference call and pre-submission deadline will be communicated to the PDG via Connect.

The future open positions in the PDG leadership were discussed. The audience was informed that the Vice Chair position was available and that an official call-out will be made on *IAFP Connect*. The election will be held online through a platform like SurveyMonkey.

Recommendations to the Executive Board:

1. It was suggested that, In the spirit of working toward a truly diverse, equitable, and inclusive meeting, the IAFP Board agrees to proceed with the creation of a program to support dependent travel/care for presenters for which their caregiving is a barrier to their participation.
2. The membership of the WSQ PDG has significant overlap with that of the International Food Protection Issues PDG, the Fruit and Vegetable Safety & Quality PDG. To the extent possible, it is recommended to minimize the overlap in the timing of the named PDGs to allow members to participate in these.

Next Meeting Date: Sunday, July 16, 2023, Toronto, Ontario, Canada.

Meeting Adjourned: 2:59 p.m. Eastern Time.

Chairperson: Leon Gorris.