

Dairy Quality and Safety PDG

Members Present: Allen Saylor, Joseph Odumeru, David Blomquist, Dennis Bogart, Don Breiner, John Bruhn, Nurliza Buyong, Heather Craven, Randall Daggs, Eugene Frey, Dennis Gaalswyk, Kathleen Glass, Kathy Gombas, Thomas Graham, Matthew Hall, Pheakdey Ith, David Laird, Linda Leake, Loralyn Ledenbach, Fritz Lembke, Thomas McCaskey, William Northeimer, Stephanie Olmsted, Gary Pruitt, Ravinder Reddy, Steven Sims, Larry Steenson, Dawn Terrell, Pernendu Vasavada, Fred Weber, Rudy Westervelt, Sharon Wilson and Philip Wolff.

New Members: Heidi Weinkauff, Bob Sander, Vidya Ananth, Jason Wan, Mary Cuervo, Debbie Cherney, Fritz Buss, Carrie Ferstl, Matthew Taylor, Amanda Matczynski, Mark Hetland, Danielle Spahn, Diana Stewart, Christa Schlosser, Rhonda Fraser and Monica Cerqueira.

Board Present: Stan Bailey, Dan Erickson and Vickie Lewandowski.

Meeting Called to Order: 9:00 a.m., Sunday, August 1, 2010.

Recording Secretary of Minutes: Joseph A. Odumeru.

Welcome and Role Call of Attendance: Chair Allen Saylor led with 53 members and visitors in attendance. Each meeting participant present was asked to give a brief introduction about themselves and their dairy background. An agenda for the meeting had been distributed electronically early the previous week and a hard copy was provided to all attendees along with the minutes of the 2009 meeting in Texas. Based on consultations with IAFP staff, the Chair noted he was at the end of his term and would serve until the beginning of the 2011 PDG meeting, but a new Chair would step in to run the meeting. The Deputy Chair, Dr. Odumeru, requested that he be considered to remain as Deputy Chair, but did not believe he could serve as the incoming Chair because of work commitments. The Chair encouraged PDG members to volunteer for a Nominating Committee, which he will name later in the meeting.

IAFP Board Update: Dr. Stan Bailey, Past President of IAFP, spoke about the IAFP 2011 Annual Meeting being the 100th anniversary of the IAFP. He asked Dairy PDG members to submit ideas for celebration as the origin of the organization focused on dairy. As part of the celebration, he encouraged PDG members to submit items that would become the "Top 100 Food Safety Tips" and will be selected for publication. Suggestions can be submitted to the IAFP Program Committee for consideration. Dr. Bailey spoke about the Strategic Long Range Planning Committee, stating IAFP has achieved 99% of its objectives. The PDG members were encouraged to identify gaps in information about food safety, identify new sources on information on food safety as well as groups that IAFP could coordinate with regarding its food safety mission. In addition, PDG members were requested to provide feedback to the IAFP Board on expanding IAFP information and communications into current social media outlets. IAFP membership is up, currently at 3,418. International membership (21% of total IAFP membership) accounts for a substantial part of the membership growth, while domestic membership remains fairly stable. There is also an increase in number of IAFP affiliates from international food safety organizations and this may account for growth in international membership. Approximately 21% of registered attendees at this year's meeting are international members. Food is a global commodity and brand recognition is key to IAFP success. IAFP provides a form for exchange of scientific information on food safety. Other comments from Dr. Bailey: IAFP has hosted three successful Webinars with 70, 120 and 150 participants in 1st, 2nd and 3rd Webinars. Participants were asked to pay \$25 to cover cost. He asked if PDG members see value in Webinars and the amount charged to cover costs. Members were to provide feedback on this to the IAFP Board. He counseled the PDG leadership to make sure that in the annual report to the IAFP Board, the content is entirely made up of actionable items, not just general recommendation or narrative about the meeting.

Comments from IAFP Program Committee: Dr. Bailey commented that he and the IAFP Board were aware of the concern by the PDG leadership and members regarding the Program Committee's lack of acceptance of symposia recommendations last year and the noticeable lack of dairy symposium topics in the 2010 Program. This issue has caused some PDG members to attend IFT this year in lieu of IAFP. The Chair noted that it is important to have a balance between pure research presentations and applied research/application presentations, which seems to be lacking this year. Dr. Bailey stated the Board had instructed the Program Committee and the new Program Chair (who was in the room) to have a more balanced program in the future between research and applied topics and to work with the various PDGs on submissions which had merit but might need more polishing. The Program Chair stated he would work with the leadership and members of the Dairy Quality & Safety PDG to assist in strengthening program proposals so the 2011 Annual Meeting program contains an appropriate amount of applied and dairy subject matter. The same commitment was expressed for proposals on processing sanitation from any PDG.

- **Action Item:** The PDG endorsed a member recommendation to request the IAFP staff consult with all PDG Chairs on the final schedule for the Annual Meeting PDG meetings prior to publication. This was the

result of the Sanitation and Dairy Quality & Safety PDG being held at the same time for the past few years and many members of each have to choose one or the other.

- **Action Item:** The PDG endorsed requesting IAFP staff to schedule one or two conference calls per year between Annual Meetings with the Chairs and Deputy Chairs of the various PDGs to get updates and allow for sharing of information and to better coordinate activities and reduce duplicate efforts and to coordinate program submissions.

IAFP Foundation Donation: Gale Prince (Head of IAFP Foundation) spoke about donations to the IAFP foundation as a memorial for PDG members that passed away. Memorials can be done on one-time basis through scholarship funds or can be on an ongoing basis. Although the purpose of the donation can be specified, putting limitations on small donations need to be done with care to avoid creating financial difficulties for the Foundation and IAFP staff that has to manage the Fund. Dr. Bailey added that donation for the Foundation can be made via IAFP silent auction.

Student PDG: Student PDG representatives spoke about student PDG activities and an ongoing fundraising effort through sales of T shirts. Dairy PDG members were encouraged by the Chair to support this fund raising effort.

Guest Speaker on Raw Milk Consumption: Mary Martin served as the guest speaker to provide a personal viewpoint on the dangers of human raw milk consumption. Mary spoke about her family's difficult experience with their adopted son after feeding him raw milk from a certified raw milk producer in California. Her seven year old son became seriously ill with *E. coli* O157:H7 and was in intensive care for 2 months. She spoke about the lack of balanced information about pros and cons of consumption of raw milk and the need to have information on the dangers of consuming unpasteurized milk. She and her husband ultimately sued the farm producer of the raw milk, with the help of Marler/Clark, a well-known food safety law firm. She is currently an advocate of the dangers of raw milk consumption and a public speaker on this issue. Ms. Martin stated that switching her son to pasteurized goat's milk appears to have solved some of her son's behavioral problems that appear to also be addressed by feeding him raw cow's milk. Her message recapped the last year where both the IAFP Dairy Quality & Safety PDG and the American Veterinarian Medical Association (AVMA) initiated efforts to develop a foundation for better public information on the dangers of raw milk consumption. AVMA took the lead and with input from PDG liaison members Dr. Ron Schmidt and the Chair, developed a Web site that now provides a balance to the extensive Internet misinformation found on Web sites promoting the consumption of raw milk. The Web site address is www.realrawmilkfacts.com. After a review of some of the information on the Web site, Mary played a victim impact video from the Web site on her family's experience with her son's illness. This one of many personal family stories captured as videos on the Web site.

- **Action Item:** PDG members recommended that the leadership work with IAFP staff and the IAFP Board of Directors to encourage the use of this Web site among IAFP members and that it be added as a link to IAFP affiliate Web sites.

- **Action Item:** PDG member Fred Weber suggested the PDG submit a recommendation for the public to avoid drinking unpasteurized raw milk to the IAFP Program Committee as one of the 100 Food Safety Tips to be released at the IAFP 2011 Annual Meeting.

- **Action Item:** The Chair was requested to work with the leadership of NADRO to encourage passage of a resolution opposing the legalization of raw milk sales for human consumption.

Old Business:

a. PDG members Lori Ledenbach and Rudy Westervelt shared the title of their symposia and the date and times for the two program ideas accepted by the Program Committee for the 2010 Annual Meeting.

b. Raw Milk Subcommittee Update: The Chair expressed a need for new energy for this PDG subcommittee as it was somewhat inactive in the last year. He also recommended that the subcommittee leadership schedule at least 3—4 conference calls per year. A number of PDG members either volunteered or were volunteered to become members of the Raw Milk Subcommittee: Dr. Christine Bruhn, Dr. Matt Taylor, Dave Blomquist, Steve Murphy, Rudy Westvelt, Larry Stinson, Dr. P.C. Vasavada, Margerie Davidson and Dennis Gaalswyk.

- **Action Item:** Chair to confirm with IAFP staff after the Annual Meeting the publication status of the "Listeria Guideline" so it is publicized and available to IAFP members and the general public.

- **Action Item:** The Chair is to work with Dawn Terrell to finalize poster content and layout on controlling and avoiding *Listeria* contamination in dairy plants.

c. There was no discussion on updating the PDG's Web site.

New Business:

- a. The Chair announced that the nominating committee consisted of Phil Wolff, USDA; Steve Murphy, Cornell; and Dean Mahoney, FAO, UN, Bangladesh (international representative). The Chair will work with the members of the nominating committee to develop a short list of names for the Chair.
- b. NCIMS M-a, MI, IMS-a Question & Answer Compilation: Dairy PDG members supported the continuation of this project. Phil Wolff, who leads the Dairy Practices Council's (DPC) Working Group stated that DPC published a similar document approximately 4–6 years ago.
- **Action Item:** The Chair suggested that Phil become part of the effort to update the IDFA and DPC documents and have them ready for publication no later than the 2011 IAFP meeting.
 - **Action Item:** The Chair was requested to send an electronic copy of the Word document compiled by IDFA staff to FDA's Dennis Gaalswyk, who will assist in finalizing the document for public distribution. Others offering to assist included Bob Sanders and Steve Sims.
- c. Product Recall Guideline Brochure: The Chair requested PDG member views on whether this subject would merit a short publication. It was acknowledged by members that there already exists a significant amount of reference material on dairy product recalls, including detailed guidance on the FDA Web site.
- **Action Item:** Kathy Gombas, Rudy Westervelt and the Chair volunteered to work on consolidating the various information on formal dairy product recalls into a tri-fold brochure format that could be published by IAFP as a reference.
- d. Allergen Guideline: Although not on the agenda, PDG member Dennis Bogart suggested a short tri-fold document on allergens would be a good investment of PDG time. Kathy Gombas from FDA stated that 35% of the reportable events in the FDA Reportable Food Registry had a root cause related to allergens and the main reason was putting product with allergens in the wrong package.
- **Action Item:** Lori Ledenbach, Steve Murphy, Kathy Gombas and Dennis Gaalswyk volunteered to begin drafting a brochure on allergens titled, "Practical Aspects for Dealing with Allergens in the Dairy Industry."
- e. AOAC versus IDF/ISO Laboratory Methods Dilemma – The dairy export industry is facing a significant challenge with US regulations requiring compliance to criteria based primarily on AOAC testing methodology, while many foreign countries are referencing ISO/IDF testing methodology. This situation could result in dairy companies that export having to test finished products twice for the same criteria, once using AOAC method and a second based on ISO/IDF, which unnecessarily adds cost. Another issue is that the Grade "A" Pasteurized Milk Ordinance (PMO) sometimes recognizes AOAC validated methods and sometimes does not. The Chair request member views on whether this was an issue that the PDG should review in further detail. There was a short discussion on the subject.
- **Action Item:** Jim Agin from Q lab, the only US lab accredited for ISO/IDF methods was volunteered to lead a subcommittee to further evaluate this issue, determine the extend of the problem and propose solutions to be reviewed the by PDG. It was noted that any effort by the subcommittee should be coordinated with the Applied Methods PDG. Additional PDG volunteers included Dr. Tom Graham, Fred Weber, Dr. P.C. Vasavada, and Debbie Cherney. The task also includes contacting AOAC staff to determine whether this issue is being addressed by their organization.

Ideas on symposia or workshops for 2011 IAFP Meeting in Milwaukee: Program Committee requires cutting-edge ideas of a research or applied nature for symposia and workshops on food quality and safety for the 2011 Annual Meeting as well as ideas for Webinars and the same subject that could be developed throughout the year. The Chair convened a separate meeting if interested PDG members would like to solicit ideas and volunteers for symposia, workshops and Webinars for 2011. The Chair stated that volunteers for these ideas would be obligated to write-up a two paragraph description of the idea, but could certainly go beyond that to include potential titles, speaker sessions and potential speakers. He also stated that he and the Deputy Chair would schedule a PDG conference call in early Sept. specifically to work on finalizing the ideas and polishing them for submittal to the Program Committee in October 2010. Dave Bloomquist provided an information overview of his electronic survey of topics for symposia and agreed to complete the compilation and share the survey results with the Chair and Deputy Chair. He stated there was 83% support for another symposia on spores as well as strong support for a symposia on bacteriophage. Fritz Lemke agreed to be the PDG liaison with the Wisconsin Milk Marketing Board (WMMB) to coordinate any symposia or workshops so they do not conflict with WMMB efforts.

a. Previously discussed topics:

1. International Dairy Regulatory Programs – USDA, FDA (NCIMS), EU, ANZED, CFIA, etc. Presentations on international perspective on dairy regulatory programs in various countries. National comparability and equivalency related to food safety component of dairy programs. The Chair agreed to resubmit this idea since it was not accepted for the 2010 Annual Meeting.
2. Better Process Cheese Workshop. After extensive discussion, the PDG members decided that private parties are providing this workshop twice per year and IAFP does not need to compete with these private parties.

3. National Water Safety Regulatory Program Updates – USDA, FDA (NCIMS), EU, ANZED, CFIA, etc. — The Chair agreed to resubmit this idea since it was not accepted for the 2010 Annual Meeting and coordinate with the Water PDG.
4. International, National and Private Food Equipment Standards – Effective, Competitive or Conflicting (3-A, AMI, EHEG, DIN, NSP, ANSI, FDA, USDA, NRA, GMA, etc). Bob Hagberg agreed to suggest this to the Committee on Sanitary Practice for their consideration with the understanding that the Dairy Quality & Safety PDG would assist, if requested.
5. FDA Core Dairy Training Workshop (Dairy Plant Inspection, Dairy Farm Inspection, Special Problems, Advanced Training, Pasteurization Controls, etc.). Although a strong, but unsuccessful effort was made for the IAFP 2010 Annual Meeting, the Chair, with support of the PDG membership agreed to see if something could be coordinated with the FDA State Training Branch and the state of Wisconsin. Dennis Gaalswyk stated the FY2011 schedule was being finalized and the Chair should contact the FDA State Training Branch immediately.
6. Technical Requirements for Milk Heating Process — UHT, ESL, etc. The PDG members decided there is not been enough new information to support this topic for 2011.
7. Behavior-based Food Safety — Key to Effective Employee Food Safety Training. Dennis Bogart agreed to work with the IAFP Education PDG to build symposia on new techniques, new training technology and new training psychology to get behavior changes resulting from proper training and reinforcement.
8. Applications of Pathogen Risk Assessment in Low Moisture Dairy Product. Similar idea at the 2010 Annual Meeting so not supported for 2011.
9. Workshop on Predictive Microbial Modeling for Dry Food Products. Supported by at least one PDG member, but no volunteers at this time to write up description of symposia. Also similar to 2010 Workshop.
10. Mechanics and Accreditation of Automated Cleaning Systems. Bob Hagberg agreed to suggest this to the Committee on Sanitary Practice for their consideration with the understanding that the Dairy Quality & Safety PDG would assist, if requested.
11. Trends after 15 Years of Data Collection: FDA's National Milk Drug Residue Data Base. After much discussion about whether this should be limited to a poster, an article in "Food Safety Trends" or a symposium, or all of these, the PDG members recommended that the Chair request Dennis Tidwell, FDA contractor that maintains the database as to whether he would or could to some multi-year trend analysis. Also tissue residue should be addressed. The outcome of this discussion was for the PDG to support both an article in *Food Protection Trends* as well as symposia. The Chair agreed to develop a paragraph describing such symposia.

b. New Ideas:

1. Farm Hygiene Affects on End Product Shelf Life: Don Breiner and Bob Hagberg agreed to develop a description for this potential symposium and report back to Dairy PDG.
2. Milk Sensory Evaluation Workshop: Strongly supported but no volunteers to write this up. Chair may attempt to write a description.
3. Milk Quality in Milk Processing Plant, Regulatory Perspective. Lori Ledenbach and Fritz Buss agreed to develop a description for this potential symposium and report back to Dairy PDG.
4. Use of Phage as Part of an Intervention Strategy for Food Quality & Safety: Dr. Larry Steenson, Dave Blomquist and Dr. Matt Taylor agreed to develop a description for this potential symposium and/or workshop and report back to Dairy PDG.
5. Workshop on Detection and Effects of Spores in Raw Milk and Finished Milk Products. Dave Bloomquist and Dennis Bogart agreed to develop a description for this potential workshop and report back to Dairy PDG.
6. An Update: What Do We Know about the Effects of *Mycobacterium paratuberculosis* (MAP) in Raw Milk. Dr. P.C. Vasavada and Dr. Joseph Odumeru agreed to develop a description for this potential symposium and report back to Dairy PDG.
7. Highest Quality Raw Milk on a Very Low Budget. Don Breiner, Lori Ledenbach and Bob Hagberg agreed to develop a description for this potential symposium and report back to Dairy PDG.
8. Workshop on Methods for Microbial Detection in Milk. Debbie Cherney agreed to develop a description for this potential symposium and report back to Dairy PDG and coordinate with the Laboratory PDG.
9. On-farm Processes to Achieve Effective Cleaning of Raw Milk Harvesting Equipment.
10. International Food Outbreak Statistics & Notable Outbreak Details – The Chair agreed to develop a description for this potential symposium and report back to Dairy PDG.
11. Illiterate Bacteria; What Do You Do When They Do Not Read BAM? David Bloomquist agreed to develop a description for this potential symposium and report back to Dairy PDG or to roll in into one of the ideas above as a symposium or workshop.
12. Two-day Workshop on Artisanal Cheese Making. Linda Leake, Dawn Terrel, Dennis Gaalswyk along with Fritz Lemke as WMMB coordinator, agreed to develop a description for this potential workshop and report back to Dairy PDG.

13. On-farm Dairy Processing Alternatives. Dawn Terrel agreed to develop a description for this potential symposium and report back to Dairy PDG in cooperation with initiatives by Arla Foods.
14. 100 Years of Dairyman Speak, a Look Back and a Look Forward. Lori Ledenbach agreed to develop a description for this potential symposium and report back to Dairy PDG.
15. New Notes for the Choir – Raw Milk Consumption by Humans. Dr. P.C. Vasavada and Linda Leake agreed to develop a description for this potential symposium and report back to Dairy PDG.
16. Update on Risks and Safety of Cheese Processing: Includes Raw Milk Cheeses, Soft Cheese and 60-day Aged Cheese. Linda Leake agreed to develop a description for this potential symposium and report back to Dairy PDG.
17. Safety, Quality and Security – Wisconsin's Master Cheese Maker Program. Fritz Lemke as WMMB coordinator, agreed to develop a description for this potential workshop and report back to Dairy PDG.
18. Nanotechnology and Its Impact on Food Safety. No volunteer agreed to write up a description for this potential symposium.

Don Breiner suggested that Dairy PDG should invite the Governor of Wisconsin to speak at our Dairy symposium in Wisconsin.

Recommendations to the Executive Board:

1. The PDG endorsed a member recommendation to request the IAFP staff consult with all PDG Chairs on the final schedule for the Annual Meeting PDG meetings prior to publication. This was the result of the Sanitation and Dairy Quality & Safety PDG being held at the same time for the past few years and many members of each have to choose one or the other. Members expressed a number of other issues resulting in conflicts with this year's PDG meeting schedule.
2. The PDG endorsed a member recommendation to request IAFP staff to schedule one or two conference calls per year between Annual Meetings with the Chairs and Vice Chairs of the various PDGs to get updates and allow for sharing of information and to better coordinate activities and reduce duplicate efforts and to coordinate program submissions.
3. The PDG endorsed a member recommendation to request IAFP staff and the IAFP Board of Directors make a strong recommendation to the IAFP affiliates and members to reference on their Web sites www.realmilkfacts.com in order to support the cooperative efforts of this PDG and a similar committee of the American Veterinary Medical Association, which develop a Web site containing factual information about the dangers of direct consumption of raw milk by humans. Prior to the development of this Web site, any Internet search about raw or pasteurized milk brought up Web sites containing misinformation and representing raw milk as safe and pasteurized milk as harmful.
4. The PDG endorsed a member recommendation that the statement, "The public should avoid the direct consumption of raw milk because of its current history of being the source of illness and potential long-term medical problems," as one of the 100 Food Safety Tips to be compiled by the IAFP Program Committee and released at the 2011 IAFP Meeting. We are willing to discuss modification of the wording, but the concept should be on the "Top 100" list.
5. The PDG endorsed a member recommendation to request support from the IAFP Board to work cooperatively with the leadership of the National Association of Dairy Regulatory Officials (NADRO), the Dairy Practices Council (DPC) and other related national organizations with an interest in the dairy industry to encourage their adoption of resolutions opposing the legalization of raw milk sales for human consumption.
6. The PDG endorsed a strongly supported recommendation that the IAFP Board of Directors direct the IAFP Program Committee to ensure that at the 2011 and future IAFP Annual Meetings, there is a balance of applied and research-based symposia as well as an expansion of dairy-focused symposia. The decisions made by the 2009 Program Committee resulted in almost no Dairy Quality & Safety PDG symposia recommendations being accepted and the program balance toward research caused some PDG members to attend IFT instead of IAFP this year. Since the origins of IAFP were from the dairy sector and the 2011 Annual Meeting is the 100-year anniversary and the location is Wisconsin, one of the leading dairy states in the country, dairy-focused symposia and workshops should be encouraged and supported.
7. The PDG endorsed a member recommendation that the IAFP Board in cooperation with the IAFP Program Committee invite the Governor of Wisconsin to be one of the "keynote" speakers at the IAFP 2011 Annual Meeting in Milwaukee based on the courage he demonstrated in vetoing a bill that would have significantly expanded the public's access to raw milk in the state of Wisconsin.

Next Meeting Date: Conference Call on Thursday, September 9, 11:00 a.m. Eastern Time.

Meeting Adjourned: 12:00 p.m.

Chairperson: Allen Sayler.