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**FOOD AND NUTRITION BOARD**  
**The National Academies Keck Center**  
**Zoom Webinar Meeting**

**May 4, 2020**

**Open Session**

**On-Farm Food Safety: Exploring the Potential for Understanding and Ameliorating  
Pathogenic Outbreaks**

- 2:30        **Risk of Food-Borne Pathogens in Fresh Produce**  
              *...Hank Giclas, Western Growers Association*
- 2:45        **Managing Outbreaks: A Regulatory Perspective**  
              *...James Gorny, FDA Center for Food Safety and Applied Nutrition*
- 3:00        **Emerging Technologies to Reduce Outbreak Events**  
              *...Maria Brandl, USDA Agricultural Research Service*
- 3:15        **Questions and Discussion**
- 3:30 pm     **Adjourn Open Session**

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## Speaker Biographical Sketches

**Henry L. (Hank) Giclas** is Sr. Vice President, Strategic Planning, Science & Technology for Western Growers. Mr. Giclas has worked for Western Growers since 1990. He began his career in the Phoenix office as the Director of Public Affairs where he was responsible for implementing Western Growers' government affairs and public relations agendas in Arizona. While serving in Arizona, Hank developed an expertise in agricultural chemical and environmental issues and led Western Growers to becoming more actively engaged in the science and technical aspects of agriculture and agricultural policy in California and Arizona. Hank's focus has helped Western Growers become a leading trade association in many of the issues related to the production and harvest of specialty crops in Arizona and California. Hank was promoted to Vice-President of Science and Government Affairs where he led legislative and regulatory advocacy programs, political action efforts, technical and registration projects as well as the management of various local trade associations from Western Growers Sacramento Office. In July 2002, Hank was called on to start a new division that would concentrate on the science and technology issues facing agriculture. That division now assists members with food safety, crop protection, environmental compliance, sustainability and a host of other areas where sound science and new technology must drive industry advancement, solutions and government policy. Since August 2003, Hank has directed strategic planning for the association. Today, Hank serves as Senior Vice President Strategic Planning, Science and Technology for Western Growers and is actively developing association leadership in the areas of agricultural technology innovation, sustainability, food safety, food security, crop production and protection as well as assisting in the implementation of the association's strategic plan. Hank serves on many industry advisory boards and technical committees including for the Center for Produce Safety, Western Institute for Food Safety and Security, Coalition for Urban and Rural Environmental. Hank received his B.S. from the University of Arizona in Agricultural Education and was a vocational agriculture instructor before coming to Western Growers.

**James Gorny, PhD** is Senior Science Advisor for Produce Safety where he is the chief advisor to CFSAN director Dr. Susan Mayne on policies and programs that affect the safety of produce. At FDA CFSAN, Dr. Gorny works alongside a dedicated team of produce safety experts on the development and implementation of new science and risk-based requirements created to help prevent illnesses caused by fresh produce. He also has responsibilities related to agency responses to produce associated foodborne illness outbreaks, recalls, investigations as well as education outreach and research. Prior to joining FDA, Dr. Gorny was Vice President of Food Safety & Technology at the Produce Marketing Association (PMA) where he worked directly with the entire produce industry supply chain to advance produce safety procedures, policies, practices and technology. Dr. Gorny holds a Ph.D. in Plant Biology from the University of California Davis and a Bachelor of Science and Master of Science degrees in food science from Louisiana State University.

**Maria Brandl, PhD** is Research Microbiologist Research Microbiologist, Produce Safety and Microbiology Research at the US Department of Agriculture, Agricultural Research Service. In 1999, she joined the USDA Agricultural Research Service at the Western Regional Research Center in Albany, California, where she has since investigated the ecology and fitness of enteric pathogens in the plant environment. From 2003 to 2015, she was the Lead Scientist of the

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Human Pathogen-Plant Interactions Project in the Produce Safety and Microbiology Research Unit. Her research at the ARS has focused on the abiotic, microbial and plant factors involved in the multiplication and survival of foodborne pathogens on leafy vegetables. Her laboratory has pioneered research in this field using population studies, molecular approaches, as well as fluorescence microscopy to interrogate enteric pathogen behavior on plants at the level of single cells. Areas of special interest include the interaction of human pathogens with plant pathogens in relation to produce safety, the role of the microbiome in the survival of enteric pathogens on plants in the pre- and post-harvest environment, and the effect of plant responses to biotic and abiotic stress on the colonization of leafy vegetables by enteric pathogens. Dr. Brandl received her BS in Plant Science at McGill University in Canada, and her PhD in Plant Pathology at the University of California at Berkeley, where she studied the interaction of epiphytic and pathogenic bacteria with plants.