

IAFP's A 360° Review for Food Safety Training-Perspectives **From Trainers and Business Owners Organized by:** The Food Safety Education PDG **Moderator**: Wenging Xu, Chair Shauna Henley, Vice Chair Sponsored by the FOUNDATION

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This webinar is being recorded and will be available to IAFP members within one week.



### Webinar Housekeeping

- It is important to note that all opinions and statements are those of the individual making the presentation and not necessarily the opinion or view of IAFP.
- All attendees are muted. Questions should be submitted to the presenters during the presentation via the Questions section at the right of the screen. Questions will be answered at the end of the presentations.
- This webinar is being recorded and will be available for access by IAFP members at <u>www.foodprotection.org</u> within one week.





### Today's Moderators

**Wenqing Xu,** Chair of Food Safety Education PDG Associate Professor at Louisiana State University.

Wennie's research and outreach programs focus on consumer related food safety issues.

**Shauna Henley,** Vice Chair of Food Safety Education PDG Senior Family & Consumer Sciences Agent and Affiliate Agent in the Department of Nutrition and Food Science, University of Maryland Extension, and the University of Maryland, College Park

Shauna's work focuses on food safety from farm-to-fork and nutrition education.









### Today's Panelist



#### Michael Koch, President & Co-Founder Firefly Farms, Firefly Farms Market

Mike is a local food advocate and award-winning entrepreneur with a distinguished track record of innovation, who has more than three decades of professional and entrepreneurial experience. As one of the co-founders of FireFly Farms-a successful goat cheese business. FireFly Farms' cheeses have won over 125 national and international awards for excellence in taste, aesthetics and quality. His company was the proud recipient of the United States Chamber of Commerce Dream Big Small Business Award.





### Today's Panelist



#### Thomas Larsen, Food Safety Training Consultant State Food Safety

Thomas Larsen works as a food safety training consultant through StateFoodSafety helping high profile brands meet their jurisdictional food safety training and certification requirements while reinforcing their brand and culture. StatefoodSafety has developed unique and proprietary processes that allow for both industry-specific customizations to course materials (grocery, quick service, C-store, etc.) and company-specific customizations (custom avatars, uniforms, branding, backgrounds, props, procedures, etc.) while simultaneously maintaining their network of jurisdictional approvals nation-wide. This technology-driven approach combined with reliable data and knowledgeable client support have allowed Thomas and StateFoodSafety to successfully train and certify some of America's most beloved brands.

### Today's Panelist





#### Clint Stevenson North Carolina State University

Dr. Stevenson leads a research driven food safety education and workforce solutions lab at NC State University. Their multidisciplinary team manages a portfolio of online food safety courses for both industry audiences and college students, collaborate with nonprofits and food companies with their training improvement objectives, and research the effects of instructional design factors on food safety training outcomes.





## A 360° Review for Food Safety Training Perspectives from Trainers & Business Owners Panelist: Mike Koch, President & Co-Founder FireFly Farms, FireFly Farms Market

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### About FireFly Farms



At FireFly Farms, sustainability isn't a buzzword. It's a promise. It's an obsession. It's economic, ethical, and environmental. Our milk is sourced from family farms in our community. Our dedication to humane and fair practices is non-negotiable. Our solar panels don't just power us, they empower us. All these things, and more, are why our all-natural cheeses are more than delicious. They're honest. They're goodness. They're truly life changing.





















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![](_page_11_Picture_1.jpeg)

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### Overview of our Food Safety Journey

- 2000 EU passes GFSI
- 2002 FireFly begins commercial manufacture of cheese
- 2011 US passes FSMA
- 2014 First mandated HACCP Audit at FireFly
- 2018 MIPs grant funds product data project at FireFly
- 2019 Customer requests GFSI compliant audit
- 2020 FSMA announces Food Traceability Rule
- 2021 First SQF Audit at FireFly
- 2022 MIPs grant phase 2 funds food safety interships

![](_page_12_Picture_11.jpeg)

![](_page_12_Picture_12.jpeg)

![](_page_12_Picture_13.jpeg)

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### What we thought then...

- Food safety is a necessary nuisance
- A (separate) food safety team is a luxury for the large
- Food safety is about oversight and enforcement
- Food safety has nothing to do with food quality
- Food safety concerns end when product leaves the building

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![](_page_13_Picture_9.jpeg)

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### What we think now...

- Food safety is a necessary part of who we are
- Everyone who enters the building is part of the food safety team
- Food safety is about continuous monitoring and improvement
- Food safety and food quality are tightly aligned
- We are one link in a food safe chain that starts with farmers and suppliers and ends with retailers

![](_page_14_Picture_7.jpeg)

![](_page_14_Picture_8.jpeg)

![](_page_14_Picture_9.jpeg)

#### International Association for Food Protection, WEBINAR

## **Our Current State**

- All staff are part of food safety team
- More than 50% of production staff are PCQI certified
- CCPs have stimulated development of QCPs
- Production workflow and database system capture all safety, quality and traceability data -- paperless and easily retrievable
- SQF practitioners conduct monthly inspections, non-conformities are reviewed by staff. Training occurs as needed.
- Contested non-conformities are reviewed and dispositioned by management.
- Annual supplier audits ensure we are tightly aligned with up-stream partners
- Delivery temp logs and complaint forms ensure we are tightly aligned with downstream partners – our own retail business especially
- Triggers of food safety plan revision are carefully watched

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![](_page_15_Picture_12.jpeg)

![](_page_15_Picture_13.jpeg)

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# Technology, Data, and Compliance Management

How to develop and use technology to better track food safety training compliance

![](_page_17_Picture_0.jpeg)

## Technology

## "Knowledge put into practical use to solve problems or invent useful tools."

![](_page_18_Picture_0.jpeg)

## **Identifying Problems**

How do I know my company is in compliance?

Does my training positively affect employee behavior?

Does my training reflect and reinforce my company's brand identity?

How do I track relevant training requirements across jurisdictions?

![](_page_19_Picture_0.jpeg)

## The Right Tool for the Job

#### 1. Customers

• Who does this tool serve? What are their current and future needs?

#### 2. Products and Services

• What tools are we providing to meet their needs and what should we be providing?

#### 3. Metrics

• What are the milestones, opportunity costs, and time-saved targets?

#### 4. Process

• Who is doing what, when, and how?

#### 5. Structure and Resources

• What human and monetary resources are required? (how much does it cost?)

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## Who is the Customer?

- YOU
- Your company
- Your team
- Your employees
- Your customers

![](_page_20_Picture_7.jpeg)

![](_page_21_Picture_0.jpeg)

## **Products and Services**

- Currently doing...?
  - Why is this not working?
  - What should be different?
- Should be doing...?
  - How will this be better than what you were doing?
  - Does it solve the main problem?
  - Think Need to haves and Nice to haves

![](_page_21_Picture_9.jpeg)

![](_page_22_Picture_0.jpeg)

## Metrics

- How will I know if this works?
- What does this need to do?
- What does it NOT need to do?
  - BEWARE OF SCOPE CREEP

![](_page_22_Figure_6.jpeg)

Measuring Success

![](_page_23_Picture_0.jpeg)

### **Scope Creep**

![](_page_23_Figure_2.jpeg)

![](_page_24_Picture_0.jpeg)

### Process

- Define who does what, how they are going to do it, and when they are going to do it.
- Can this be done in existing tools?
  - If yes, assign someone to figure out how to use those tools
  - If no, determine who will be creating these new tools
  - This may be a third-party vendor
- Does this require extra training to be able to do?
  - Do you have a developer who can build these tools?
  - Does your developer need extra training to be able to do so?

![](_page_25_Picture_0.jpeg)

### **Structure and Resources**

- How much will this cost us?
- How many people hours are required to accomplish this?
- Is it worth it? (cost-benefit analysis)

![](_page_25_Figure_5.jpeg)

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### Examples

• How do we track regulations across the country?

![](_page_26_Picture_3.jpeg)

StateFoodSafety

Lassen County

#### Apollo StateFoodSafety Reports CSV Lookup Map Q List Mode California Alcohol Multi-select > Canada BBP Food Handler Food Manager > United Kingdom United States Regulatory Body: CA Department of Alcoholic Beverage Control Rep: Naomi Yencich > Alabama X ! Overview > Alaska × ! Are on-premise and off-premise requirements the same? No > Arizona 🗸 🛛 > Arkansas 🗸 **On-Premise Off-Premise** 🔻 California 🗸 Is training required? Is training required? Yes No > Alameda County For whom? Does training provide mitigation benefits? Yes > Alpine County Beginning in July 2022, any ABC licensee who has an "ABC On-Premises License" will need to Licensee Education on Alcohol and Drugs (LEAD) is ABC's free voluntary prevention and have their staff (alcohol servers and managers of alcohol servers) trained and certified in RBS. > Amador County education program for off-sale licensees and their employees. LEAD provides practical This includes but is not limited to restaurants, bars, fast casual dining, tasting rooms (including information on selling alcoholic beverages safely, responsibly and legally, and preventing illicit off-sale locations), hotels, and stadiums. Butte County drug activity on or around their licensed establishment. RBS certification means that the alcohol server has successfully completed training by an ABC Calaveras County Although some local governments currently require servers working in their jurisdictions to approved training provider and passed the alcohol server certification exam (hosted by ABC). attend a LEAD course, the ABC LEAD program will not fulfill the requirements mandated by AB Colusa County 1221 and will not qualify as an ABC approved RBS Training when the new training mandate "ABC On-Premises License" means an ABC license that grants the privilege to serve alcoholic goes into effect in 2022. You could have reduced insurance premiums if certified through beverages to customers who then consume them on the licensed premises. Contra Costa County LEAD. CA doesn't currently approve third party training providers to offer this program. The following license types have On-Premises privileges: Type 1, 2, 3, 4, 23, 40, 41, 42, 43, 44, > Del Norte County 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 80, 83, 86, 87, 88, 99. El Dorado County Can training be APPROVED? No Fresno County Can training be ACCEPTED? No Training Required Within: 60 days from 7/1/22 > Glenn County Does SFS offer this training? > Humboldt County Can training be APPROVED? Yes Imperial County Is SFS APPROVED? Yes Inyo County Does SFS offer this training? Yes Kern County Kings County Are any upcoming changes rumored? Yes Lake County Set Relevant Reg To No For Lower Entities Edit Expand All

28

![](_page_28_Picture_0.jpeg)

### Examples

- How do we track regulations across the country?
  - Apollo
- How do we keep track of a company's internal compliance?

![](_page_28_Picture_5.jpeg)

![](_page_29_Picture_0.jpeg)

### **Compliance Manager**

					÷	Mary Admin DASH	n ? E IBOARD SUPPORT LOGOUT
	MY GROUP PURCHASES	➡ FILTERS	I SEE ALL EMPLOYEES			Lo	cation Lookup 🔹
	COMPLIANCE DASHBO	6		_	í.		
	STORE COMPLIANCE				✓ CM Demo		86%
•	ACCOUNT INFORMATION				Central Region		100%
			CM Demo Compliance Score ?	Eastern Region			
					Western Region		86%
	Hidden Headers Business Name Compliant Compliance Updated On		Compliant Compliance Updated On				
		ID	Address		Group	Score	
		1014001 SW Canyon Rd, Portland, OR 97221, USA102601 N 59th St, Seattle, WA 98103, USA1051 Government Dr, St. Louis, MO 63110, USA1032800 E Observatory Rd, Los Angeles, CA 90027, USA			Western Region	86%	Ê
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					Central Region	100%	) ê
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		106	2300 Steele St, Denver, CO 80205, USA		Central Region		Ê
						Rows per page: 25 🔻	1-7 of 7 < >

![](_page_30_Picture_0.jpeg)

### Examples

- How do we track regulations across the country?
  - Apollo
- How do we keep track of a company's internal compliance?
  - Compliance Manager
- How do we support strong brands while maintaining ANSI and jurisdictional approvals?

![](_page_30_Picture_7.jpeg)

![](_page_31_Picture_0.jpeg)

### **Quick Custom Courses**

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![](_page_32_Picture_0.jpeg)

### Examples

- How do we track regulations across the country?
  - Apollo
- How do we keep track of a company's internal compliance?
  - Compliance Manager
- How do we support strong brands while maintaining ANSI and jurisdictional approvals?
  - Quick Custom Courses

![](_page_32_Picture_8.jpeg)

![](_page_33_Picture_0.jpeg)

## In Summary

- Know your customer and their needs (what do YOU need?)
- Analyze your current solution and imagine the ideal
- Determine how you will know you are successful
- Figure out who will and can do what
- Calculate the cost (both monetary and temporal)

![](_page_34_Picture_0.jpeg)

![](_page_34_Picture_1.jpeg)

### Thank You!

# Food Safety Training, Instructional Design and Costs of Quality

Clint Stevenson, Ph.D.

**Associate Professor** 

Department of Food, Bioprocessing and Nutrition Sciences NC State University

### **Objectives**

- 1. Identify the role of food safety training in the costs of quality
- 2. Identify the association between training interactivity levels and food safety outcomes

![](_page_37_Picture_2.jpeg)

#### **Our Program: Research-Driven Food Safety Education Solutions**

•Approximately 2,000 participants/year

•10 online courses (e.g. HACCP, GMPs, Environmental Monitoring, and more)

•Capable of providing custom training solutions (HACCP, GMPs, etc.)

•Self-paced, rolling enrollment, mostly asynchronous learning experiences

•We are a team of subject matter experts, learning designers, developers, customer service specialists, and students

•In addition to managing our portfolio of online food safety courses, we study the effects of instructional design strategies on food safety outcomes

#### foodsafety.ncsu.edu

![](_page_38_Picture_2.jpeg)

![](_page_38_Picture_3.jpeg)

#### FOOD, BIOPROCESSING AND NUTRITION SCIENCES

Food Safety Education And Training

foodsafety.ncsu.edu

"Relevant and Focused Online Training"

We support food and bioprocessing teams in their food quality and food safety operations

by offering online active learning experiences and self-paced training.

### **Costs of Quality – Where Does Food Safety Training Fit?**

![](_page_39_Figure_3.jpeg)

### **Costs of Food Safety Training Depend**

Type of Training	Number of Hours to Create 1 Hour of Training
Instructor Led – Simple content (e.g. GMPs for new hires)	22:1
Instructor Led – Average project (e.g. PCQI)	43:1
Instructor Led – Complex subject matter	82:1 (< \$10K)
Level 1 e-Learning (e.g. PowerPoint to e-learning)	from 49:1 to 125:1 (~\$10K)
Level 2 e-Learning (Level 1 e-learning plus scenario based activities)	from 127:1 to 267:1 (~\$18K)
Level 3 e-Learning (highly interactive, simulations, etc.)	from 217:1 to 716:1 (~\$50K)

From the Chapman Alliance, How long does it take to create learning? Chapmanalliance.com

Research Project

## EFFECTS OF LEVEL OF INTERACTIVITY ON *LISTERIA* MONITORING PROGRAMS FOR DAIRY PROCESSORS

### **Hypothesis**

A higher:

1. Level of interactivity

#### 2. Learners perceived interactivity

- a. (i.e., small transactional distance)
- 3. Direct measure of Interactivity
  - a. (i.e., screen time)

... will have greater **knowledge gains/retention, self-efficacy** gains/retention, and change in intentions and behaviors.

## Modules in the Environmental Monitoring in the Dairy Industry Course

- 1. Introduction to Environmental Monitoring
- 2. Zones
- 3. Scheduling
- 4. Organisms
- 5. Sampling Tools
- 6. Corrective Actions
- 7. Trends

![](_page_43_Picture_10.jpeg)

## Acknowledgements

- Paul Hill, Dean Foods
- Brian Kraus, Wells Enterprises
- Dennis D'Amico, University of Connecticut
- Chad Galer, Tim Stubbs, National Dairy Council
- Stephanie Maggio, Julie Yamamoto, Nathaniel Powers
- Distance Technology and Learning Applications (DELTA)

Interactivity	Limited	Moderate	High
<ul> <li>Course Narrative</li> <li>Learning w/ Ginger &amp; Walter</li> <li>Addressing Student by their Name</li> </ul>			
<ul> <li>Standard Learning Activities</li> <li>Flashcards</li> <li>Standard videos from external resources (ex: FDA video)</li> </ul>			
<ul> <li>Standard Practice Problems</li> <li>Drag &amp; Drop, Multiple Choice, Fill-in-the-Blank, &amp; Short Answer</li> </ul>			
<ul> <li>Complex Practice Problems</li> <li>Scenario-based Questions</li> </ul>	X		
<ul> <li>Feedback &amp; Adaptivity</li> <li>Words of Encouragement</li> <li>Acknowledgement of Correct Answers</li> <li>Explanation of Incorrect Answers</li> <li>Remedial Pathways</li> </ul>			
Custom Animations to Enhance Learning & Practice     Oustom Animated Videos	X		
<ul> <li>Virtual Reality to Enhance Learning &amp; Practice</li> <li>Interactive 3D Video Simulations</li> <li>Interactive Simulation-based Practice</li> </ul>	X	X	

#### **NC STATE** UNIVERSITY

Food, Bioprocessing and Nutrition Sciences

### **Interactivity Rating of Lesson 7**

Lesson 7 Learning Objectives: 1. 2. 3.	Identify appropriate corrective actions Apply root cause analysis Choose appropriate sites for intensified sampling						
Lesson 7 Count of Interactive Components in Each Version of the Course							
	Low Interactivity	Moderate Interactivity	High Interactivity				
Interactions with Virtual Dairy Processors (1pt/interaction)	8	8	8				
Addressing Student by Name (1pt/interaction)	3	3	3				
Flashcards (1pt/interaction)	9	9	9				
Link to External Sites (1pt/interaction)	9	9	9				
Video from External Site (1pt/interaction)	0	0	0				
Standard Practice Problems (Drag & Drop, Multiple Choice, Fill-in-the-Blank, & Short Answer) (1pt/interaction)	14	8	8				
Feedback (Words of Encouragement, Acknowledgement of Correct Answers, Explanation of Incorrect Answers) (1pt/interaction)	7	7	7				
Adaptivity (Remedial or Alternative Learning Pathways) (1pt/interaction)	3	3	3				
Custom Audio (1pt/interaction)	6	6	6				
Scenario-based Practice Problems with 2D Images (2pts/interaction)	0	3x2pts = 6	3x2pts = 6				
Custom Animated Video (2pts/interaction)	0	6x2pts = 12	6x2pts = 12				
Interactive 3D Video Simulations (3pts/interaction)	0	0	0				
Scenario-based Practice Problem with VR for Added Context (3pts/interaction)	0	0	3x3pts = 9				
OVERALL INTERACTIVITY RATING FOR LESSON 7	59	71	80				

### **Lesson-by-Lesson Interactivity Rating**

![](_page_46_Figure_3.jpeg)

#### NC STATE UNIVERSITY

![](_page_47_Picture_2.jpeg)

<u>link</u>

![](_page_48_Picture_2.jpeg)

PLAY

360

link

Find the scale in Walter & Ginger's "cheese packaging" area. Notice that it is sitting on a small cart.

Given what you have learned about zones, what zone would you assign to the handle on the drawer of the cart?

Zone 1

Zone 2

Zone 3 

Zone 4

![](_page_49_Picture_8.jpeg)

#### Slide 19 in Zones Lesson: Click Here

**HISTORY** 

**TRY AGAIN** 

L.

X

#### NC STATE UNIVERSITY

![](_page_50_Picture_2.jpeg)

### Significant Change in Knowledge Score between Pre- and Post-training Time points

![](_page_51_Figure_1.jpeg)

- Overall, posttraining & 90 days post-training knowledge scores were sig. greater than pre-training
- Low & High treatment groups had sig. increase in knowledge scores after training

## **Knowledge Gains & Retention Achieved**

![](_page_52_Figure_3.jpeg)

- Overall ~50% knowledge gains & ~20% knowledge retention
- Low & High treatment groups had similar gains & retention
- Moderate group had lowest gains and almost no retention<sup>3</sup>

### Significant Change in Self-Efficacy Score between Pre- and Post-training Time points

![](_page_53_Figure_1.jpeg)

- Overall, posttraining & 90 days post-training selfefficacy scores were sig. greater than pre-training
- High interactivity treatment groups had sig. increase in self-efficacy gains and retention

## **Self-Efficacy Gains & Retention Achieved**

![](_page_54_Figure_3.jpeg)

## **Behavior Change Achieved**

Average Self-reported Behavior Score of Study Participants

![](_page_55_Figure_4.jpeg)

## Average Lesson Time Negative Correlation with Knowledge Gains

	Average Lesson Time	Overall TD Score	TD Learner- Content	TD Learner- Feedback	TD Learner- Interface
Knowledge Gains					
Knowledge Retention					

## Learner-Content Interaction Positive Correlation with Knowledge Gains & Retention

	Average Lesson Time	Overall TD Score	TD Learner- Content	TD Learner- Feedback	TD Learner- Interface
Knowledge Gains	r =5609 p = .0726				
Knowledge Retention	r =2381 p = .5077				

## Learner-Content Interaction Positive Correlation with Knowledge Gains & Retention

	Average Lesson Time	Overall TD Score	TD Learner- Content	TD Learner- Feedback	TD Learner- Interface
Knowledge	r =5609	r = .6450	r = .7328	r =.4660	r = .3780
Gains	p = .0726	p = .1177	p = .0610	p = .2920	p = .4031
Knowledge	r =2381	r = .7408	r = .8145	r =.5067	r =.4011
Retention	p = .5077	p = .1521	p = .0932	p = .3836	p = .5033

### Summary

- Managers/supervisors play an important role in implementing food safety training programs
- Well crafted content in food safety training programs is a driver for training effectiveness
- Interactivity for interactivity-sake is costly and not always worth it

#### **Our Food Safety Courses**

- Environmental Monitoring in The Dairy Industry
- Online HACCP Training for Blueberry Producers
- **Preventive Controls for Dairy Processors**
- Food Safety Basics for Artisan Cheesemakers
- Food Safety Basics for Ice Cream Makers

### www.foodsafety.ncsu.edu

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Instagram: <u>@NCSUFoodSafety</u>

- Good Manufacturing Practices in Food Safety
- Intro to Microbiological Food Safety Hazards
- Norovirus and Food Safety
- Online HACCP Training

![](_page_60_Picture_19.jpeg)

### What questions do you have?

#### **Clint Stevenson**

Associate Professor and Distance Education Coordinator

Department of Food, Bioprocessing and Nutrition Sciences North Carolina State University

Email: clint\_stevenson@ncsu.edu

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# Questions?

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## **Contact Information**

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![](_page_63_Picture_8.jpeg)

## IAFP Upcoming Webinars

**April 19** Software Fair Series Part 2 - USDA Integrated Pathogen Modeling Program (IPMP)

**April 21** Processing Environment Monitoring in Low Moisture Foods Production: Setting Up a Meaningful Program

**April 26** Foundations of Produce Safety in Hydroponic and Aquaponic Operations

May 17 Avoiding Premature Water Activity Testing Results When Meeting Safety Regulations

May 26 Making Your Environmental Monitoring Plan Smarter

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### Be sure to follow us on social media

![](_page_65_Picture_1.jpeg)

![](_page_65_Picture_2.jpeg)

**in** 

![](_page_65_Picture_4.jpeg)

IAFPFood

InternationalAssociationforFoodProtection

international-association-for-food-protection

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