

# Food Safety

Looking Back / Looking Forward

Stories, Thoughts and Citizen Science

Janet Raddatz

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# What do these Foodborne Pathogens have in common?

- *Listeria monocytogenes*
- *E. coli* O157:H7, Non-O157s (O26, O111, O103, O45, O121, O145, O104)
- *Campylobacter*
- *Salmonella* Enteritidis, *Salmonella* Typhimurium DT104
- *Vibrio*, *Yersinia*
- *Clostridium difficile*
- Norovirus, Hepatitis A

# New Pathogens That Emerged During My Career

Life Was Good!!



# Who Remembers...

- Jewel 2% Pasteurized Milk in 1985
- Jalisco Cheese in 1985
- Jack in the Box Hamburgers in 1993

# The Future...

- New Pathogens
  - Non-0157 Shiga-toxin producing *E. coli*
- Evolving Pathogens
  - Increased Virulence
  - Antibiotic Resistance
    - MRSA
  - VBNC
  - Quorum Sensing
- Allergens

What Can We Do????

# On-going Education

- Science
- Statistics
  - Especially Sampling
- Communicating Science



## Minimum Parts Needed per Run when Response Measurement is Pass/Fail

<b>Expected % Defects</b>	<b>Minimum # Parts</b>
<b>0.1</b>	<b>5000</b>
<b>0.2</b>	<b>2500</b>
<b>0.5</b>	<b>1000</b>
<b>1</b>	<b>500</b>
<b>2</b>	<b>250</b>
<b>5</b>	<b>100</b>
<b>10</b>	<b>50</b>
<b>20</b>	<b>25</b>
<b>50</b>	<b>10</b>

# Network with Others

- Two more stories:
  - Supply Quality Program
  - Cherney Proficiency Program
- Food safety is not a competitive advantage!
  - [www.usdairy.com/foodsafety](http://www.usdairy.com/foodsafety)
- Networking Tips



## NETWORKING TIPS

- \* **ATTITUDE:** Be positive and upbeat. Check negative ideas at the door.
- \* **FOCUS:** Know why you're attending. What's YOUR purpose for attending the Customer-Supplier Division Conference? Defining your purpose will help you achieve it.
- \* **CARDS:** Exchange with at least 10 colleagues. Write brief notes on the back of the cards to help you remember the people you meet.
- \* **CONVERSATION:** Prepare interesting tidbits. Read. Read. Read.
- \* **SELF-INTRODUCTION:** Prepare an energetic, concise 15-second self-introduction.
- \* **READ NAMETAGS:** Ask about the company, the person, the job, the city.
- \* **CIRCULATE:** Learn to extricate yourself and move on.
- \* **SEAT SELECTION:** Sit next to someone you don't know during lunch and during sessions.
- \* **FOLLOW-UP:** With the people whose cards you collect.
- \* **HAVE FUN:** Enjoy yourself. Humor is infectious!

# Leadership

- How does one become a leader?
  - Study
    - Books, Articles, Seminars, Webinars...
  - Practice
    - WLA, WAFP, IAFP, ASQ

# Conclusion

Prepare for the future

Education

Networking

Leadership

Retirement will be here before  
you know it – enjoy the journey

[jraddatz@wi.rr.com](mailto:jraddatz@wi.rr.com)