The Food Chemicals Codex: Past, Present, and Future

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The Past

- The FCC was first published in 1966
  - Produced by IOM for FDA
  - Intended to define quality for food grade chemicals
  - Initial focus was on direct additives
  - Modeled after USP-NF

- Publication moved to USP in 2006

- On-line version started in 2008
The Present

- More than 1250 monographs
  - Probiotics & prebiotics
  - Preservatives
  - Fats and oils
  - Infant formula ingredients
  - Dietary fibers
  - Gelling agents
  - Emulsifiers
  - Flavors
  - Sweeteners
  - Nutrients
  - Colorants
  - Filtration aids
  - Glazes
  - & More

- Guidance, including
  - More than 150 tests and assays
  - Food Fraud Mitigation Guide
  - Guidance on Developing and Validating Non-Targeted Testing
The FCC has been highly successful at meeting our original goals

Ingredient standards are more important than ever for ensuring supply chain integrity and product quality
- They serve as a dictionary that defines what an ingredient should be
  - And what it means for a substance to be food grade
- They are essential for defending against fraud and adulteration
- Integrated methods provide valid ways to determine if a particular sample meets a standard
- Associated reference materials help demonstrate that the methods are working as intended
Taking Stock – Change Happens

- The world has changed since 1966
Taking Stock – Change Happens

- The world has changed since 1966
  - Supply chains are more complex
    • Increasingly multinational
    • Accurate transparency is important
Taking Stock – Change Happens

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  - Supply chains are more complex
  - Consumer expectations are more complex
    - Including concern for everything on the label
Taking Stock – Change Happens

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  - Consumer expectations are more complex
  - The regulatory environment is more complex
    - Prevention-based regulations have become the norm
    - Regulations address more issues
Taking Stock

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- Supply chains are more complex
- Consumer expectations are more complex
- The regulatory environment is more complex
- Economic issues are more complex
  - Fraud, EMA, counterfeiting, misrepresentation
Taking Stock – Change Happens

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  - Supply chains are more complex
  - Consumer expectations are more complex
  - The regulatory environment is more complex
  - Economic issues are more complex
  - Laboratory analysis is more complex
    - The use of third party labs has increased
    - New technology has increased sensitivity
Preparing for the Future

- We are responding to the changing world to meet the need for
  - Up-to-date science and standards
  - Standards for more ingredients and for more complex ingredients
  - Transparent, instantaneous communication
  - Protection of public health
  - Fraud prevention
Our Future

- We are doing this by
  - Modernizing existing standards
Our Future

- We are doing this by
  - Modernizing existing standards
  - Creating new impactful standards
Our Future

- We are doing this by
  - Modernizing existing standards
  - Creating new impactful standards
  - Developing new types of materials for laboratories, ingredient developers, and food manufacturers
Our Future

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  - Modernizing existing standards
  - Creating new impactful standards
  - Developing new types of materials for laboratories, ingredient developers, and manufacturers
  - Supporting industry and regulatory bodies internationally
The Future

- You can help
- Help us
  - Identify needed science, standards, and guidance
  - Ensure that the structure, content, and delivery of our standards are effective
  - Reach out world wide to foster an understanding of the role of standards
Thanks
Thank You

Empowering a healthy tomorrow