Food Fraud – 
An International Perspective

Food Fraud – the Analytical Tools Conference
UK Department for the Environment and Rural Affairs (DEFRA)
Food and Environment Research Agency (FERA)
February 27, 2014 – 10:05 to 10:20am
York, United Kingdom

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WWW.FoodFraud.MSU.edu Twitter @FoodFraud and #FoodFraud
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Curriculum

MOOC – Food Fraud Overview – *March 31 & April 7*
http://foodfraud.msu.edu/mooc/

**Graduate Courses** (Online, Three Credits)
- Anti-Counterfeit & Product Protection (Food Fraud)
- Quantifying Food Risk
- Packaging for Food Safety
- Food Protection and Defense
- Global Food Safety

**Certificate** (Online, Four Courses Each)
- Graduate Certificate in Food Fraud Prevention (Food Safety)

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WARNING: Counterfeiters Attend Anti-Counterfeit Conferences
The Food Risk Matrix

The **Cause** leading to the **Effect** of Adulteration Prevention is understanding the motivation

<table>
<thead>
<tr>
<th>Food Quality</th>
<th>Food Fraud(1)</th>
<th>Motivation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food Safety</td>
<td>Food Defense</td>
<td>Gain: Economic</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Harm: Public Health, Economic, or Terror</td>
</tr>
</tbody>
</table>

Unintentional | Intentional

**Source:** Adapted from: Spink (2006), The Counterfeit Food and Beverage Threat, Association of Food and Drug Officials (AFDO), Annual Meeting 2006; Spink, J. & Moyer, DC (2011) Defining the Public Health Threat of Food Fraud, Journal of Food Science, November 2011

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The Chemistry of the Crime

Detect
Deter
Prevent

Are we disrupting the Chemistry of the Crime?
Approaches to Prevent Food Fraud

(CRIMINAL) SCIENCE

RISK ASSESSMENT

SOCIO-ECONOMIC

INSPECTION & PRODUCT TESTING

AUDIT & CERTIFICATION

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GFSI Position
Integral Part of FSMS

Food Safety
Food Defence
Food Fraud

HACCP
Hazards
Prevention of unintentional / accidental
adulteration
- Science based
- Food borne illness

TACCP
Threats
Prevention of intentional adulteration
- Ideologically motivated

VACCP
Vulnerabilities
Prevention of intentional adulteration
- Economically motivated
Global Activities

- UK Elliott Review (Food Fraud)
- EP/EU Resolution (Food Fraud)
- Interpol Operation Opson I, II, III (Food Crime/ IP)
- US Food Safety Modernization Act –
  - Intentional Adulteration/ Economically Motivated Adulteration
  - Congressional Research Service report on Food Fraud (1/2014)
  - GAO report on FDA and EMA (10/2013)
- GFSI Guidance Document
- PAS 96 Review of Food Fraud
- ISO TC 247 Fraud Countermeasures and Controls
- GMA: Brand Protection, Consumer Product Fraud, etc.
- US Pharmacopeia/ Food Chemicals Codex (Adulteration)
- Corporate Processes and Systems
  - Quality/ Six Sigma
  - Enterprise Risk Management/ Chief Risk Officer
  - Situational Crime Prevention/ Crime Science
Discussion

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