

AOAC 2008
Sept 21-24, Dallas, Texas
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Tuesday 9/22/2008

Chemical Contaminants & Residues in Food Community, 3:15pm-5:15pm

Pesticide Subgroup

Chair: Jon Wong

- **Introductions:** representatives from testing, inspection, food industry, government and academia. Domestic and international interests were present.
- **Goals of subgroup:**
 - To learn what is of interest to people
 - Learn from each other
 - What people need
 - Keep up with current issues
- **Request from Guo-Fang Pang** for interested parties to participate in a tea collaborative study. A sign-up sheet was passed around.
- **QuEChERS**
 - **Validation: Multiple methods and modifications**
 - How to deal with different methods
 - Does each modification to the method need to be validated?
 - SLV are already being performed
 - Some expressed the opinion that multi-lab validation is not necessary
 - Do not want to get in the situation where a full multi-lab validation is needed for small changes to the method
 - Separate method into functional components (extraction, clean-up, analysis) to simplify validation. Only validate part that has a modification instead of entire method.
 - Possible best solution is to use performance based and/or proficiency testing
 - Using ISO and PDP guidelines
 - How involved should AOAC be in determining proficiencies, development of in-house validation guidelines and validated method criteria
 - AOAC wants SLV guidelines
 - EU has established guidelines that may be a useful starting point

- AOAC dietary supplements had this kind of document that could also be used as a template. We are dealing with more diverse analytes so the dietary supplements documents may need significant modification.

- **High lipid content commodities**
 - Necessitates changes to methods
 - Can cause serious problems with existing methodology
 - Call for rugged method that addresses high lipid content

- **Classification of procedures**
 - By commodity: take into consideration aqueous and lipid content. For example, methods that are used for 20% lipid content, 50% lipid content....
 - By pesticide class

- **Priority of pesticides**
 - Group compounds that can be testing by the same method
 - Toxicity: high toxicity pesticides. This will likely be single analyte methods.
 - MRLs: legal or not legal. This will be complicated because of country specific regulations
 - Most used pesticides
 - PDP list
 - Originally matrix specific: targeted list for matrix
 - Now less targeted: Multiresidue allows more analytes to be tested per analysis

- **Wish List**
 - Multiresidue screening: 24 hour turnaround time, quick and dirty method followed by confirmation method
 - Forum where method information and questions can be discussed
 - One list of pesticides of greatest interest
 - Validation guidelines and criteria
 - QuEChERS method for high lipid content