

The Diagnostic Center for Population and Animal Health

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Director**



DCPAH General

- It is a 152,000 Sq Ft BSL-2 and BSL-3 facility
- A full service Lab accredited by AAVLD
- Handles more than 220,000 cases/yr
- Performs > 1.3 Million tests/yr
- Toxicology
 - 2009 5852 Cases
 - 2010 6250 Cases

Networks Participation

- **Food Emergency Response Network**
 - (FDA and USDA)
- **Laboratory Response Network**
 - (CDC)
- **National Animal Health Laboratory Network**
 - (USDA)

The Toxicology Lab



History of the Lab

- **May 1973 PBBs mislabeled as Magnesium oxide**
- **Sept 1973 Cl. signs in cattle**
 - Unthrifty
 - Decreased milk
 - abscesses
 - Abnormal hoof
- **April 1974 FDA id cpd as PBBs**
- **8 M of 9.1 M residents tested positive**

What we do

- **Diagnostic service**
- **Research**
- **Teaching**
- **Extension**

Toxicology Lab

- Inorganic toxicants e.g trace minerals, heavy metals, cyanide
- Anions
 - Bromides
 - Nitrates
 - sulfates

Toxicology Lab

- **Organic compounds**
 - **Rodenticides**
 - **Chlorinated pesticides**
 - **Ionophores**
 - **PBBs, PCBs**
 - **Mycotoxins**
 - **Industrial chemicals**

Proficiency testing

- FERN
- AAFCO
- Mercury (Canada)
- Wisconsin blood Lead
- Chlorinated pesticides
- (AAVLD)

GC/MS



LC-MS/MS



ICP/AES



ICP/MS



Conclusion

- **Would like to participate in Vet-LRN**
- **We are participating in other networks**
- **We have the infrastructure and personnel to deliver**

Thank you,
from all of us at DCPAH!

