

**OSC 10**  
Ohio Safety Congress & Expo

**Clandestine Laboratory/Methamphetamine Update**

Session number: 464

Presenter: Dennis J. Lowe

Thursday, April 1, 2010 1 to 2 p.m.

**Continuing Nursing Education Disclosures**

- **Goal:** To educate conference attendees on specific aspects of accident prevention and Ohio's workers' compensation system
- **Learning objectives:**
  - Recognize the types of clandestine laboratories that are encountered in Ohio;
  - Describe the short- and long-term effects of their presence; and
  - Identify the hazards of methamphetamine.
- **Criteria for Successful Completion:** Attend the entire event and complete a session evaluation.
- **Conflict of Interest:** The planners and faculty have no conflict of interest.
- **Commercial Support:** There is no commercial support for this event.
- **Continuing Education:** Awarded 0.1 IACET general CEUs and 1.0 RN\* contact hour.

\*The Ohio BWC (OH 18801-01-2013) is an approved provider of continuing nursing education by the Ohio Nurses Association (OBN-001-91), an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation.

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**METHAMPHETAMINE & CLANDESTINE LABORATORIES UPDATE**

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**Topics of Discussion**

- The extent of the problem.
- Where are Ohio's labs?
- Types of drug labs encountered
- Hazards of production
- Site remediation
- Safety protocols
- PSE Monitoring
- Training available

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**The Extent of the Problem**

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**Two Fold Problem in Ohio**

- MDTO's production/distribution
  - Super labs
  - Large scale distribution



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## Two Fold Problem in Ohio

- **Domestically Produced Methamphetamine**
  - Small toxic meth labs
  - Small scale production / user based



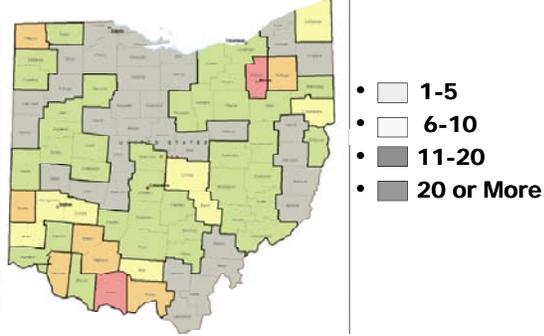
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## Ohio's Lab Seizures

• 2000	18 Labs
• 2005	497 Labs
• 2008	187 Labs
• 2009	349 Labs
• 2010 YTD	135 Labs

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## Where are Ohio's labs?



- 1-5
- 6-10
- 11-20
- 20 or More

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## Where Will You Find A Meth Lab?

- Urban Locations
- Suburban Locations
- Rural Locations
- Mobile Labs
- RV's & Trailers
- Hotel / Motel's
- Businesses
- Camp Grounds
- Anywhere you can imagine



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## Types of Labs Encountered

- Methamphetamine
- MDMA
- PCP
- GHB
- LSD
- DMT
- Psilocybin Mushroom
- Cannabis
- THC extraction
- Hashish

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## The Most Utilized Methods of Methamphetamine Manufacture In Ohio

- Red Phosphorous Method, "Red P"
  - 4 Step Process
- Birch Reduction Method, "Nazi", "Anhydrous Ammonia"
  - 4 Step Process
  - Includes "Shake & Bake"
- Hybrid Lab of above methods
- Occasionally "P2P" lab, "Prope Dope"

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## Labs Come In Many Shapes & Sizes

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## Hazards of Production

- Fire & explosion
- Toxic & poisonous gas inhalation
- Chemical exposure
- Contamination from methamphetamine
- Electrical hazards
- Slip, trip & fall

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## Chemical Exposures

- Concentrated acids
- Solvents
- Oxidizers
- Water reactive materials
- Air reactive materials

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## CHEMICAL HAZARDS

- Flammable
- Combustible
- Reactive
- Corrosive
- Caustic
- Toxic

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### Methamphetamine Contamination

- 1,000's of Micrograms of methamphetamine vaporized during process



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### Most Lab Related Injuries Are Due To Inhalation



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### WHAT'S IN IT?



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### Pseudoephedrine From Over The Counter Cold Medication



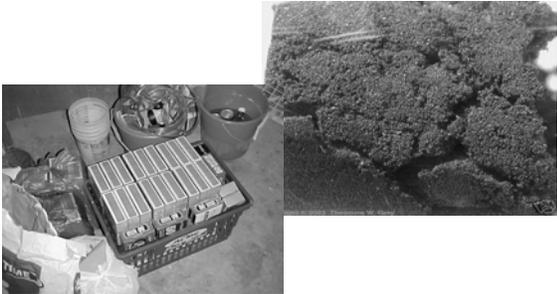
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### FLAMMABLE SOLVENTS



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### RED PHOSPHOROUS



The image consists of two black and white photographs. The left photograph shows a metal tray containing several small, rectangular packets of red phosphorous. The right photograph shows a large, dark, granular pile of red phosphorous powder.

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### IODINE



The image consists of two black and white photographs. The left photograph shows two bottles of iodine solution, one of which is labeled 'IODINE'. The right photograph shows a tray containing several small bottles and containers of iodine.

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### PEROXIDE



The image shows a black tray containing several bottles of peroxide. A white spray nozzle is also visible in the tray.

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### SODIUM HYDROXIDE



The image consists of two black and white photographs. The left photograph shows a bottle of sodium hydroxide with a label that includes 'RED DEVIL LYE'. The right photograph shows a tray containing several small bottles and containers of sodium hydroxide.

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### CONCENTRATED ACIDS



The image shows several bottles of concentrated acids arranged on a surface. A box is visible in the background.

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The image consists of two black and white photographs. The left photograph shows a large bottle of concentrated acid with a label that includes 'PROFESSIONAL GRAIN OPENER'. The right photograph shows a tray containing several small bottles and containers of concentrated acids.

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## ANHYDROUS AMMONIA




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## LITHIUM METAL



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## Contamination Site Remediation

- No remediation statutes in Ohio
- HB 100 has been proposed
- ODH has best practices guidelines on web site
- Most structures can be reoccupied

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## Meth Lab Clean-up

ODH best-practice guidance document



**The local health district responsibility:**  
Local health districts have the legal authority to enforce health laws. However, local health districts often have limited resources and are often overwhelmed by the number of requests for assistance. For this reason, the local health district is encouraged to provide support and assistance to the local health district in the form of a contract with a meth lab cleanup contractor. Local health districts should also consider the health of the community and the safety of the cleanup crew. The local health district should also consider the health of the community and the safety of the cleanup crew.

**What is clean? What is safe? How do you make these determinations?**  
The following factors are considerations when health officials visit a meth lab cleanup site:

- There are no visible structural damage, mold, or other health hazards.
- There are no visible mold, mildew, or other health hazards.
- There are no visible mold, mildew, or other health hazards.

**Meth lab hazards:**  
Meth labs are highly volatile and can be extremely dangerous. Meth labs are highly volatile and can be extremely dangerous. Meth labs are highly volatile and can be extremely dangerous.

**Meth lab cleanup activity:**  
Meth lab cleanup activity is a highly specialized task that requires the use of specialized equipment and personnel. Meth lab cleanup activity is a highly specialized task that requires the use of specialized equipment and personnel.

**Meth lab cleanup safety:**  
Meth lab cleanup safety is a top priority for all involved. Meth lab cleanup safety is a top priority for all involved. Meth lab cleanup safety is a top priority for all involved.

**What are other states doing?**  
Other states are taking various steps to address the issue of meth lab cleanup. Other states are taking various steps to address the issue of meth lab cleanup.

**Meth Lab Clean-up Guidelines:**  
The following guidelines are intended to provide a general overview of the best practices for meth lab cleanup. The following guidelines are intended to provide a general overview of the best practices for meth lab cleanup.

**What is currently going on in Ohio?**  
The state of Ohio is currently facing a significant challenge in the area of meth lab cleanup. The state of Ohio is currently facing a significant challenge in the area of meth lab cleanup.

**For more information:**  
For more information, please contact the Ohio Department of Health. For more information, please contact the Ohio Department of Health.

**References:**  
References include various sources of information related to meth lab cleanup. References include various sources of information related to meth lab cleanup.

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## Clandestine Lab Safety Protocol

You find yourself at a potential Clandestine Lab Site

**DO NOT! Touch Anything**  
**DO NOT! Sniff Anything**  
**DO NOT! Open Anything**

Contact local Law Enforcement  
They will contact DEA/BCI

DEA / BCI

Hazardous Waste Clean Up Contractor      Other Clan Lab Certified Personnel

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### BCI Clan Lab Unit Services

- Response to Clandestine Drug Lab Scenes
- Coordinate Response to Clan Lab's
- Conduct Safety & Awareness Training
- Coordinate & Conduct Certification & Re-Certification training
- Conduct Clan Lab Investigations
- Provide Expert Testimony in Court
- Provide assistance in Clan Lab related matters

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### Training Programs Conducted

- 40 hr Clan Lab Officer Certification
- 8 hr Clan Lab Investigations
- 4 hr Safety & Awareness
- POBT Awareness
- POBT Train the Trainer
- BWC "Meth in the Workplace"
- ODOT "Waste Abandonments & Dump Sites"
- 2 Hr Awareness Classes
- Custom Programs
- ALL Training Programs are FREE

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