



NDIA Robot Rodeo Briefing 19-June-2008

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Sandia is a multiprogram laboratory operated by Sandia Corporation, a Lockheed Martin Company,
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2008 Western National



Robot Rodeo





So what is it?

- It's co-hosted by Los Alamos National Laboratories and Sandia National Laboratories
- It's fun and challenging!
 - 10 scenarios, over 2½ days
 - live fire, driver skill, and ops planning
 - most scenarios based on real-world examples
- It's for active Bomb Squads
 - 2007/08 - Albuquerque PD, New Mexico State Police, Santa Fe PD, Los Alamos PD, LANL, Las Vegas (Nevada) FD
 - 2009 - AF EOD, others
- It's for "bragging rights"
 - it is a competition
 - it is not training, per se
- It's not for vendors
 - though Remotec came to support their fielded equipment
 - other vendors invited, but none came this year



Scenarios

- Stairway to Heaven - obstacle course
- Are You Kidding Me - VBIED
- Bagram Air Field - IED in a culvert
- Doctor Doctor - field diagnosis of robot
- Lost and Found - navigation by GPS
- Moving Day - mobile drug lab
- Not Again - smoke filled bldg, open safe, ...
- Rescue Me - downed fire fighter(s)
- Targets up! - live fire
- The Maze - obstacle course

Stairway to Heaven







Are You Kidding Me?



Bagram Air Field



Doctor Doctor



Moving Day



Lost and Found



Not Again!



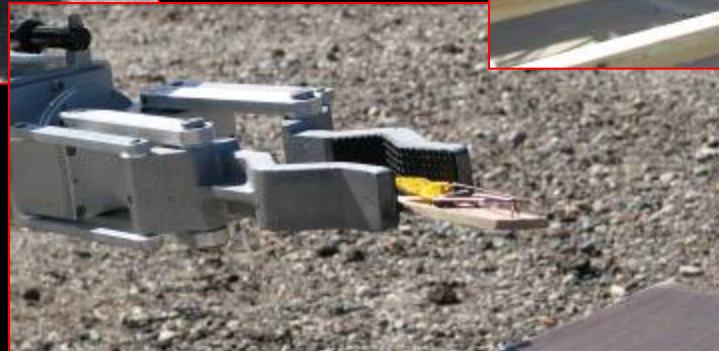
Rescue Me!



Targets Up



The Maze



Do all this,
while ...

... not being able to see your hands (or the controls)!



2009 Western National Robot Rodeo

May/June 2009
Albuquerque, NM



2009
Scenarios
include ...

Downed Aircraft



DHS Critical Infrastructure Protection #1



Various O-Courses



DHS Critical Infrastructure Protection #2



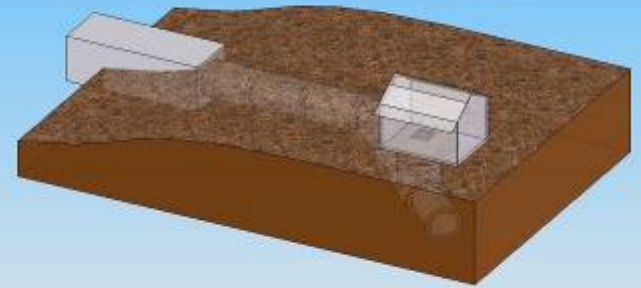
What do you do when ALL your senses are overwhelmed?



DHS Critical Infrastructure Protection #3



A sewer ... no way!!!!



A couple of aircraft scenarios ...



Something in the baggage compartment ...





Something in the
overhead, or galley ...





Ideas for a NDIA robot rodeo?

1. It should be for vendors
 - A. vendors compete against each other
 - B. no users

2. 2~3 Scenarios at convention location
 - A. Allow for "alibis" (redo a scenario due to technical difficulties)
 - B. Scenarios are platform independent

3. Maybe have an O-course for users to "try their luck" operating various equipment