

# Perspectives on checkpoint security: airline, vendor, passenger, terrorist – panel discussion

Matthew Merzbacher, Morpho Detection

Jimmie Oxley, University of Rhode Island

Harry Martz, Lawrence Livermore National Laboratory

Carl Crawford, Csuptwo

# Competing Interests

- Strengthen security
  - More threats, lower mass, smart adapting adversary
- Increase operational efficiency
  - Reduce costs, labor, footprint, deployment time/effort
- Improve passenger experience
  - Reduce divesture, wait times
- Make money – sell seats
- Take down airplanes – terrorize society

# Perspectives

- Vendor + Passenger: Matthew Merzbacher, Morpho Detection
- Passenger: Harry Martz, Lawrence Livermore National Laboratory
- Explosive expert: (simulated terrorist) Jimmie Oxley, University of Rhode Island
- Airline: Carl Crawford, Csuptwo Airlines

# Airline Perspective

- Based on informal discussions and watching TV advertisements
- Safety first priority
  - Security sells seats
  - Will invest in enhanced security
- Schedule secondary to security

# Passenger Perspective (I)

- Safe travels
- Walk directly to gate – invisible security
  - No divestiture
  - No wait times in lines
  - No pat-downs

# Passenger Perspective (II)

- Regular passengers want:
  - consistency of experience [especially experienced travelers]
  - (it is better to have a half hour in line every time than 5 minutes usually and 1 hour other times, because you have to plan for 1 hour no matter what)
  - better directions and controls so that the "newbies" don't get in the way
- Less Experienced passengers want:
  - Openness
    - explanation for what's being done and why
    - a feeling that common sense is prevailing over procedure
    - my MiL was infuriated by a random pat-down she received when she was well over 80 years old

# Vendor Perspective

- Consistent revenue stream
- Opportunity to experiment/investigate with new idea
  - Learn by try and fail
- Open dialogue regarding requirements and expectations
  - Flexibility of solution

# Terrorist (simulated) Perspective

- Choice of Explosive
  - For large bombs it must be possible to acquire or make large amounts of explosive
  - However for transportation targets small amounts can cause great destruction.
- Explosives aren't the only weapon available to terrorists
  - Where ever there is a crowd of people
  - Vehicle assault
  - Stabbing
  - Shooting



# Terrorist Choice in Bombings & Attempted Bombings

<b>Vehicle Bombs</b>	<b>Backpack Bombs</b>	<b>Aircraft</b>
AN/Al	AN/Al	KClO <sub>3</sub> /fuel
AN/NM	HP/fuel	HP/fuel
ANFO	EGDN	PETN
HP/fuel	pyrotechnic	RDX
KClO <sub>3</sub> /fuel	TATP	TNT
Urea Nitrate		TATP