

# SANS Forensic Summit 09: Working with Law Enforcement Panel



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Computer Forensics Shared Resources Partnership

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# Detective Cindy Murphy



- Law Enforcement Officer for over 24 years
- Madison Police Department since 1991, Detective for 8 years
- Involved in Computer Crimes & Computer Forensics 10+ years
- Certified Computer Forensic Examiner- EnCE, CCFT-A
- Testified as an Expert in State and Federal Courts
- D.F. cases in both the WI and US Supreme Court
  - US vs. Rajib Mitra – Police Radio Interference Case - 1<sup>st</sup> Prosecution of Federal Computer Crimes Statute under the Patriot Act
  - State of WI vs. Normington – Allows the use of legal pornographic images to establish motive in sexual assault cases w/ vulnerable victims
- Planning Panel member / Technical Working Group member  
NIST guidebook “Investigations involving the Internet and Computer Networks”
- Part-time Digital Forensics Instructor – Madison Area Tech. College

# Question:



- What are 2-3 major challenges that LE digital investigators now face or will face in the near future?



# Challenges:



- Resources:
  - Training
  - Hardware
  - Software
  - Personnel



# Challenges:

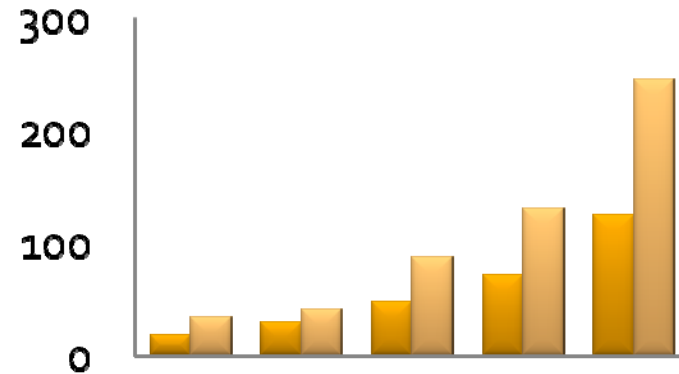
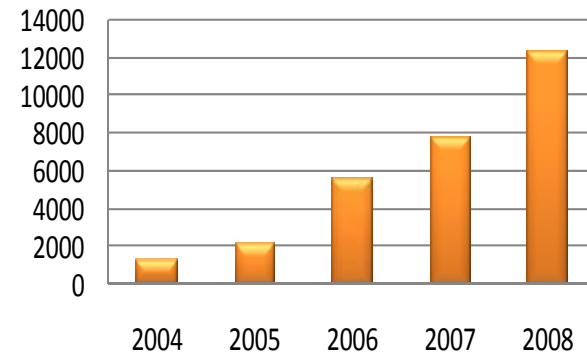


- Moore's Law: Keeping up with Technology
  - Larger Capacity Devices at Cheaper Consumer Cost
  - Variety of Devices
  - Lack of Standardization



## Resources

MPD CFU Data Examined (in GB)



2004 2005 2006 2007 2008  
■ # Cases ■ # Devices

# Challenges:



- Administrative:
  - Policy and Procedure
    - Bosses & Peers
  - Legal System
    - Judges, Juries, Legislation
  - Training and Education
    - Certification Trends
    - Educational Programs



Resources...

