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(USACIL)
DOD’s FORENSIC CHALLENGE

**Traditional:**
- Criminal Investigations
- Casualty Identifications
- Medical Examiner Functions
- Network Intrusions
- Forensic Expert Testimony
- Repositories
- Research & Development
- Consulting Services

**Emerging/Non-Traditional:**
- Intelligence
- Counter-Intelligence
- Support to GWOT
- Expeditionary Forensics
- Foreign Language Forensic Documents Capability
- Site Exploitation
- Support to “significant” investigations
- Education/Training
- Contracting Forensics

**Future:**
- DOD/Fed Agency Integration
- DOD/Intl Agency Integration
- DOD/Natl Databasing
- Forensics/Biometrics Integration
- Support to WMD
- Technology Transfer
- Long-Term Evidence Storage
- Nation Building
- Accident Investigations
- Accident Reconstruction

- Forensic requirements are growing
- New uses are emerging
- DOD forensic capabilities are stand-alone.
- There is no integrating or coordinating body.
DOD’s FORENSIC SCIENCE COMMITTEE

- **Established by DODIG (CIPO)**
- **Review and resolution of forensic science issues**
- **Primarily focused on criminal investigation**
- **Committee has no regulatory or policy authority**
The DOD possesses one of the most powerful forensics toolsets in the U.S.

Nuclear DNA • Drug Chemistry • Digital Evidence • Latent Prints • Forensic Pathology
• Trace Evidence • Forensic Documents • Forensic Odontology • Forensic Toxicology • Others
• Firearms & Toolmarks • Forensic Anthropology • Mito-DNA • Forensic Databases

DOD’s enduring forensic capability exists in the institutional forensic laboratories within DOD & forensic examiners comprise a high-demand/low-density skill set.

DOD’s institutional forensic laboratories were designed, equipped, and manned to provide a specific type of forensic support (traditional missions) to specific functional area (normally criminal investigative, judicial or medical).

All of DOD’s institutional forensic laboratories are nationally accredited.

Additionally, there are other agencies that can provide unique capabilities to the forensic effort, e.g., NAVYODTECHDIV, TEDAC, BFC, NGIC, research labs, etc.
DOD’s FORENSIC ORGANIZATIONS

U.S. Army
Criminal Investigation Laboratory
(USACiL: Army)
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Armed Forces
Institute of Pathology
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Department of Defense
Cyber Crime Center
(DC3: Air Force)
Lt Col Jeff Salyards
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Jeff.salyards@dc3.mil

Joint POW/MIA Accounting Command
Central Identification Laboratory
(JPAC-CiL: PACOM)
Thomas D. Holland, Ph.D. D-ABFA
Tel (808) 448-1725
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**DOD Cyber Crime Center**

**Mission:**
- Digital evidence processing and electronic media analysis for criminal law enforcement and DOD counterintelligence.
- Investigations and forensic training to DoD members to ensure信息系统 are secure from unauthorized use.
- Research, development, testing and evaluation (RDT&E).

**Size:** ~20 Mil, ~35 Gov, ~138 Contractors

**Location:** Lithicum, MD

**Affiliation:** Air Force
Armed Forces Medical Examiner System

**Mission:**
- Conduct forensic investigations to determine the cause & manner of death
- Perform forensic toxicology services (including drug testing quality control programs, proficiency testing programs, and consultation services to the DoD for the Military Drug Testing program)
- Perform psychological autopsies in cases of equivocal manner of death
- Perform other forensic services, including epidemiologic analysis of military deaths; and
- Provide consultation and support to other governmental agencies on a reimbursable basis.

**Size:**
- Forensic Pathologists (13)
- Photographers (6)
- Investigators (4)
- Forensic Anthropologists (2)

**Location:** Rockville, MD & Dover AFB

**Affiliation:** Armed Force Institute of Pathology

**EA:** Surgeon General
Mission:
- Provides human remains identification;
- Provides forensic DNA analytical services;
- Provides bio-informatic analysis and management services;
- Provides mass fatality specimen collection and management services;
- Provides human reference specimen collection, cataloging, archival, and retrieval repository services.
- Supports AMES & AFIP through consultation, education and research.
- Supports JPAC-CIL in the identification of human remains recovered from personnel missing from previous American armed conflicts.

Size: 1 Mil, ~10 Gov, ~127 Contractors

Location: Rockville, MD

Affiliation: AFME
Evidence Collection and DNA Sampling

USS Cole: Oct 2000
UA 93: Sep 2001
EA 990: Oct 1999
AA 77: Sep 2001
Learjet: Oct 1999
US Air Express 5481: Jan 2003
AKA 261: Jan 2000
Armed Forces Repository of Specimen Samples for the Identification of Remains (AFRSSIR)

- Repository of 5 million DNA samples, primarily from military service members
- Casualty identification
• Searchable database of DNA profiles from detainees and known or suspected terrorists
• Partnership with defense, intelligence, and law enforcement programs
Joint POW/MIA Accounting Command
Central Identification Laboratory

**Mission:**

**JPAC**
- Achieve the fullest possible accounting of US service personnel missing from past conflicts
- Perform humanitarian missions as directed

**CIL**
- Direct field recovery of human remains
- Conduct laboratory analyses of remains to support identifications
- Provide expert consultation to DOD and other government agencies in the area of human recovery and identification
- Conduct scientific research

**Size:** 25 forensic anthropologists, 3 forensic odontologists, 8 Life Support Investigators, 10 photographers, and administrative staff

**Location:** Hawaii

**Affiliation:** Pacific Command

JPAC-CIL is the largest forensic Anthropology laboratory in the world
Mitochondrial DNA Section

Provides forensic mtDNA analysis, family reference, and DNA data IT support to the JPAC.
U.S. Army Criminal Investigation Laboratory

Mission:
• Provide worldwide forensic laboratory services, training, and R&D to all DOD investigative agencies, in:
  • Trace Evidence
  • DNA/Serology
  • Latent Prints
  • Firearms & Toolmarks
  • Digital Evidence
  • Drug Chemistry
  • Forensic Documents
  • DeFacto Executive Agent for Crime Lab Support to the Military Criminal Investigation Organizations (MCIOs)
  • DOD Executive Agent for the Military Convicted Offender Program / DNA Profile Databasing

Size: FY09: 157 Rqmts / 137 Auth

Location: Atlanta, GA

Affiliation: Army

USACIL provides the widest range of services of all of the DOD accredited forensic laboratories
USACIL Services

- Evidence Examination
- Crime Scene Support
- Court Testimony
- Training
- Research And Development
- Field Investigative Equipment Acquisition
- Clearing House For Non-traditional Forensic Services
- Consultation
- Support To The Warfighter
- Database Development & Access
USACIL SUPPORT TO THE WARFIGHTER

Tillman Case

No Gun Ri

Akbar

Abu Ghraib
Military Criminal Investigative Organizations (MCIO) Forensic Consultant Programs

- **Investigators with degrees in Forensic Science**
- **Provide advice and assistance to investigators**
- **Review of major cases and triage evidence prior to submission to labs**
- **Help optimize and standardize evidence collection and submissions**
- **Help optimize and standardize utilization of laboratory reports and services**
Institutional labs have a broad, robust set of capabilities

Institutional labs “relatively” well resourced

- Funding
- Staffing
- Training
- Equipment

All institutional labs nationally accredited

DOD personnel very active in professional forensic organizations, national certification / accreditation bodies, and national scientific working groups
DOD Forensics – The Negative

Ø Not centrally managed, integrated or coordinated

Ø Not resourced for emerging missions

Currently developing the “Defense Forensic Enterprise System”
QUESTIONS?