

PALM BEACH COUNTY
 BOARD OF COUNTY COMMISSIONERS
AGENDA ITEM SUMMARY

Meeting Date: November 20, 2007	<input checked="checked" type="checkbox"/>	Consent	<input type="checkbox"/>	Regular
	<input type="checkbox"/>	Ordinance	<input type="checkbox"/>	Public Hearing
Department:				
Submitted By:	<u>Palm Beach County Sheriff's Office</u>			
Submitted For:	<u>Palm Beach County Sheriff's Office</u>			

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to **(A) Accept** the National Institute of Justice (NIJ) "Solving Cold Cases with DNA Program" FY 2007 Grant in the amount of \$176,235 for the period January 1, 2008 through June 30, 2009; and **(B) Approve** a budget amendment in the amount of \$176,235 increasing the Sheriff's Grant Fund.

Summary: On September 11, 2007 the Palm Beach County Sheriff's Office (PBSO) received an award for the Solving Cold Cases with DNA Program. The objective of this grant is to combine the efforts of the PBSO Special Investigations Bureau, Crimes Against Children/Sexual Assault Unit with the Violent Crimes Bureau in conjunction with the experience of the Serology/DNA Section of the Crime Laboratory to solve Cold Cases. These funds, which have been approved by NIJ, will be used to pay overtime, consulting fees and for the purchase of laboratory supplies. There is no match requirement associated with this award. No additional positions are needed and no County funds are required. Countywide. (DW)

Background and Justification: The U.S. Department of Justice, Office of Justice Programs (OJP), National Institute of Justice (NIJ) 2007 Solving Cold Cases with DNA Program furthers the Department's mission by offering assistance to States and units of local government to identify, review, and investigate Uniform Crime Report (UCR), Part 1 Violent Crime "cold cases" that have the potential to be solved through DNA analysis, and to locate and analyze biological evidence associated with these cases. The Catalog of Federal Domestic Assistance (CFDA) number is 016.560 and the grant number is 2007-DN-BX-K023.

Attachments:

- 1. Budget Amendment
- 2. Award Letter
- 3. Cooperative Agreement
- 4. Application

=====

RECOMMENDED BY:		
	DEPARTMENT DIRECTOR	DATE <u>10/22/07</u>
APPROVED BY:		DATE <u>10/30/07</u>
	ASSISTANT COUNTY ADMINISTRATOR	DATE

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2008	2009	2010	2011	2012
Capital Expenditures					
Operating Costs	\$ 176,235				
External Revenues	(\$176,235)				
Program Income (County)					
In-Kind Match (County)					
 Net Fiscal Impact	 0				
 # Additional FTE Positions (Cumulative)	 0				

Is Item Included in Current Budget: YES _____ NO X _____

Budget Account No.: Fund 1152 Agency 160 Org 2111 Object 3129

Reporting
Category _____

B. Recommended Sources of Funds / Summary of Fiscal Impact:

The Solving Cold Cases with DNA grant is funded through the National Institute of Justice (NIJ). No County funds are required in FY 2008.

DNA Backlog Reduction Program	<u>\$176,235</u>
Total	\$176,235

III REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Administration Comments:

John D. ... 10/25/07 OFMB
10-25-07 VO 10/27

Jim J. Jacoby 10/26/07
Contract Administration
10/26/07

B. Legal Sufficiency:

[Signature] 10/29/07
Assistant County Attorney

C. Other Department Review:

Department Director

This summary is not to be used as a basis for payment.

08-0082

BOARD OF COUNTY COMMISSIONERS
PALM BEACH COUNTY, FLORIDA
BUDGET AMENDMENT

FUND 1152 SHERIFF'S GRANTS FUND

BGRV 420 102407*187
BGEK 420 102407*1560

Use this form to provide budget for items not anticipated in the budget.

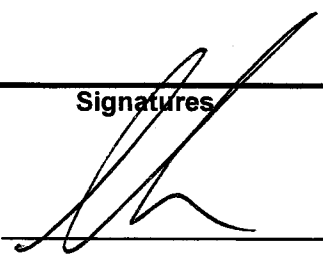
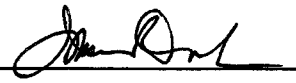
ACCT.NUMBER	ACCOUNT NAME	ORIGINAL BUDGET	CURRENT BUDGET	INCREASE	DECREASE	ADJUSTED BUDGET	EXPENDED/ ENCUMBERED	REMAINING BALANCE
Revenues								
DNA Cold Case - K023 160-2111-3129	Federal Grant - Other Public Safety	0	0	176,235	0	176,235		
TOTAL FUND REVENUES		\$0	\$1,964,791	\$176,235	\$0	\$2,141,026		
Expenditures								
DNA Cold Case - K023 160-2111-9498	Transfer to Sheriff Fund	0	0	176,235	0	176,235		
TOTAL EXPENDITURES		\$0	\$1,964,791	\$176,235	\$0	\$2,141,026		

Palm Beach County Sheriff's Office

INITIATING DEPARTMENT/DIVISION

Administration/Budget Department Approval

OFMB Department - Posted

Signatures _____ Date _____
 10/22/07
 10-25-07

By Board of County Commissioners
At Meeting of November 20, 2007

Deputy Clerk to the
Board of County Commissioners

BR
10/25/07

QJN
10-24-07



Department of Justice
Office of Justice Programs

Office of the Assistant Attorney General

Washington, D.C. 20531

September 11, 2007

Sheriff Ric Bradshaw
Palm Beach County Sheriff's Office
3228 Gun Club Road
West Palm Beach, FL 33406-3001

Dear Sheriff Bradshaw:

On behalf of Attorney General Alberto Gonzales, it is my pleasure to inform you that the Office of Justice Programs has approved your application for funding under the National Institute of Justice Continuation Awards in the amount of \$176,235 for Palm Beach County Sheriff's Office. This funding is for the project titled, "Solving Cold Cases with DNA."

Enclosed you will find the Grant Award and Special Conditions documents. This award is subject to all administrative and financial requirements, including the timely submission of all financial and programmatic reports, resolution of all interim audit findings, and the maintenance of a minimum level of cash-on-hand. Should you not adhere to these requirements, you will be in violation of the terms of this agreement and the award will be subject to termination for cause or other administrative action as appropriate.

If you have questions regarding this award, please contact:

- Program Questions, Charles Heurich, Program Manager at (202) 616-9264; and
- Financial Questions, the Office of the Comptroller, Customer Service Center (CSC) at (800) 458-0786, or you may contact the CSC at ask.oc@usdoj.gov.

Congratulations, and we look forward to working with you.

Sincerely,

A handwritten signature in cursive script that reads "Regina B. Schofield".

Regina B. Schofield
Assistant Attorney General

Enclosures



Department of Justice
Office of Justice Programs
National Institute of Justice

Cooperative Agreement

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1. RECIPIENT NAME AND ADDRESS (Including Zip Code) Palm Beach County Sheriff's Office 3228 Gun Club Road West Palm Beach, FL 33406-3001		4. AWARD NUMBER: 2007-DN-BX-K023	
		5. PROJECT PERIOD: FROM 01/01/2008 TO 06/30/2009 BUDGET PERIOD: FROM 01/01/2008 TO 06/30/2009	
1A. GRANTEE IRS/VENDOR NO. 596000786		6. AWARD DATE 09/11/2007	7. ACTION Initial
		8. SUPPLEMENT NUMBER 00	
		9. PREVIOUS AWARD AMOUNT \$ 0	
3. PROJECT TITLE Solving Cold Cases with DNA		10. AMOUNT OF THIS AWARD \$ 176,235	
		11. TOTAL AWARD \$ 176,235	
12. SPECIAL CONDITIONS THE ABOVE GRANT PROJECT IS APPROVED SUBJECT TO SUCH CONDITIONS OR LIMITATIONS AS ARE SET FORTH ON THE ATTACHED PAGE(S).			
13. STATUTORY AUTHORITY FOR GRANT This project is supported under FY07(NIJ - DNA/Forensics) Pub. L. No. 110-5, emb. secs. 101-104; Pub. L. No. 109-108, 119 Stat. 2290, 2302; 28 USC 530C			
15. METHOD OF PAYMENT PAPRS			
AGENCY APPROVAL		GRANTEE ACCEPTANCE	
16. TYPED NAME AND TITLE OF APPROVING OFFICIAL Regina B. Schofield Assistant Attorney General		18. TYPED NAME AND TITLE OF AUTHORIZED GRANTEE OFFICIAL Ric Bradshaw Sheriff	
17. SIGNATURE OF APPROVING OFFICIAL <i>Regina B. Schofield</i>		19. SIGNATURE OF AUTHORIZED RECIPIENT OFFICIAL <i>[Signature]</i>	19A. DATE 9-14-07
AGENCY USE ONLY			
20. ACCOUNTING CLASSIFICATION CODES FISCAL FUND BUD. DIV. YEAR CODE ACT. OFC. REG. SUB. POMS AMOUNT X B DN 60 00 00 176235		21. DN07S00237	

OJP FORM 4000/2 (REV. 5-87) PREVIOUS EDITIONS ARE OBSOLETE.

OJP FORM 4000/2 (REV. 4-88)



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SPECIAL CONDITIONS

1. The recipient agrees to comply with the financial and administrative requirements set forth in the current edition of the Office of Justice Programs (OJP) Financial Guide.
2. The recipient acknowledges that failure to submit an acceptable Equal Employment Opportunity Plan (if recipient is required to submit one pursuant to 28 C.F.R. Section 42.302), that is approved by the Office for Civil Rights, is a violation of its Certified Assurances and may result in suspension or termination of funding, until such time as the recipient is in compliance.
3. The recipient agrees to comply with the organizational audit requirements of OMB Circular A-133, Audits of States, Local Governments, and Non-Profit Organizations, as further described in the current edition of the OJP Financial Guide, Chapter 19.
4. Recipient understands and agrees that it cannot use any federal funds, either directly or indirectly, in support of the enactment, repeal, modification or adoption of any law, regulation or policy, at any level of government, without the express prior written approval of OJP.
5. Due to the substantial Federal involvement contemplated in completion of this project, the National Institute of Justice (NIJ) has elected to enter into a cooperative agreement rather than a grant. This decision is based on NIJ's ongoing responsibility to assist and coordinate projects that deal with DNA analysis and capacity enhancement. NIJ will provide input and re-direction to the program, as needed, in consultation with the Recipient, and will actively monitor the project by methods including but not limited to ongoing contact with the Recipient. In meeting programmatic responsibilities, NIJ and the Recipient will be guided by the following principles: Responsibility for the day-to-day operations of this project rests with the Recipient in implementation of the Recipient's approved proposal, the Recipient's budget (as approved by OJP and NIJ), and the terms and conditions specified in this award. Responsibility for general oversight and redirection of the project, if necessary, rests with NIJ. In addition to its programmatic reporting requirements, the Recipient agrees to provide necessary information as requested by OJP and NIJ. These information requests may include, but are not limited to specific submissions related to: performance, including measurement of project outputs/outcomes; meeting performance specifications; developmental decision points; changes in project scope or personnel; budget modifications and/or coordination of related projects.
6. Unless otherwise authorized by NIJ, expenses charged to this award must directly relate to: (a) identification, review, and prioritization of Uniform Crime Report (UCR), Part I Violent Crime "cold cases" (cases for which all significant investigative leads have been exhausted) that have the potential to be solved through DNA analysis; (b) identification, collection, retrieval, or evaluation of biological evidence from such cases that reasonably is expected to contain DNA; or (c) performance of DNA analyses on such biological evidence.



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7. (a) Accreditation and Privacy Requirements; CODIS; No Research

The Recipient shall ensure that each DNA analysis conducted under this award will be performed either (1) by accredited government-owned laboratories, or (2) through an accredited fee-for-service vendor. The accreditation must be by a nonprofit professional association of persons actively involved in forensic science that is nationally recognized within the forensic science community. The laboratory must undergo external audits not less than once every 2 years that demonstrate compliance with the DNA Quality Assurance Standards established by the Director of the FBI.

The Recipient shall maintain each DNA analysis conducted under this award, and each stored DNA sample that results from this award, in accordance with the privacy requirements and restrictions on disclosure described in 42 U.S.C. section 14132(b)(3).

The Recipient agrees to notify NIJ immediately upon any change in the accreditation status of any of its forensic science laboratories, if applicable.

The Recipient shall ensure that all eligible forensic DNA profiles obtained with funding under this award will be entered into the Combined DNA Index System (CODIS), and, where applicable, uploaded to the National DNA Index System (NDIS).

The Recipient shall ensure that none of the funds provided under this award are used for research or statistical projects or activities as defined by 28 CFR Part 22 or for research as defined by 28 CFR Part 46. Any questions concerning this provision should be directed to the NIJ Program Manager for the award.

(b) Nonsupplanting of State or Local Funds

The Recipient shall ensure that Federal funds made available through this award will not supplant State or local funds, but instead will be used to increase the amount of funds that would, in the absence of Federal funds, be available from State or local sources for activities funded through this award.

The Recipient agrees to notify NIJ immediately if the Recipient receives new State or local funding for any of the purposes included in the approved application for this award.

(c) Data collection

The Recipient agrees to cooperate with any assessments, national evaluation efforts, or information or data collection requests, including, but not limited to, the provision of any information required for the assessment or evaluation of any activities within this project.

8. The recipient agrees to submit quarterly financial status reports to the Office of Justice Programs using Standard Form SF 269A on the Internet at <https://grants.ojp.usdoj.gov>. These reports shall be submitted on-line not later than 45 days after the end of each calendar quarter. The final report shall be submitted not later than 90 days following the end of the grant period.

9. The recipient shall submit semiannual progress reports. Progress reports shall be submitted within 30 days after the end of the reporting periods, which are June 30 and December 31, for the life of the award. These reports will be submitted to the Office of Justice Programs, on line-through the Internet at <https://grants.ojp.usdoj.gov/>.

ACB



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10. The Recipient shall submit a report within 90 days of the end of the award period that, at a minimum, (1) includes a summary and assessment of the program carried out with the funds made available under this Fiscal Year 2007 award and (2) cites the number of additional violent crime cold cases reviewed for DNA evidence, the number of such cases in which biological evidence still existed, the number subjected to DNA analysis, the number that yielded DNA profiles, the number of resulting profiles entered into CODIS, and the number of CODIS hits as a result of the Fiscal Year 2007 award. The Recipient shall ensure that all data and information necessary for the report is collected throughout the award period.
11. Recipient acknowledges that the Office of Justice Programs reserves a royalty-free, non-exclusive, and irrevocable license to reproduce, publish, or otherwise use, and authorize others to use (in whole or in part, including in connection with derivative works), for Federal purposes: (1) the copyright in any work developed under an award or subaward; and (2) any rights of copyright to which a recipient or subrecipient purchases ownership with Federal support.

Recipient acknowledges that the Office of Justice Programs has the right to (1) obtain, reproduce, publish, or otherwise use the data first produced under an award or subaward; and (2) authorize others to receive, reproduce, publish, or otherwise use such data for Federal purposes.

It is the responsibility of the recipient (and of each subrecipient, if applicable) to ensure that this condition is included in any subaward under this award.

RB



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12. Patents and Inventions.

The clauses at 37 C.F.R. section 401.14 (together, the "Patents Rights Clause") are incorporated by reference, with the following modifications.

(1) Where italicized, the terms "contract," "contractor," and "contracting officer" are replaced, respectively, by the terms "award," "award recipient," and "OJP program manager";

(2) Patent Rights Clause paragraph (f) is modified by adding the following at the end:

"(5) The award recipient agrees to provide a report prior to the close out of the award listing all subject inventions or stating that there were none.

(6) The award recipient agrees to provide, upon request, the filing date, patent application number and title; a copy of the patent application; and patent number and issue date for any subject invention in any country in which the award recipient has applied for a patent.";

(3) Patent Rights Clause paragraph (g) is modified to read as follows:

"(g) Subawards and Subcontracts

"The award recipient will include this Patent Rights Clause, suitably modified to identify the parties, in all subawards and subcontracts, regardless of tier, for experimental, developmental, or research work. The subaward recipient or subcontractor will retain all rights provided for the award recipient in this clause, and the award recipient will not, as a part of the consideration for awarding the subaward or subcontract, obtain rights in the subaward recipient's or subcontractor's subject inventions."; and

(4) Patent Rights Clause paragraph (l) is modified to read as follows:

"(l) Communications

"Communications on matters relating to this Patent Rights Clause should be directed to the General Counsel, Office of Justice Programs, United States Department of Justice."

With respect to any subject invention in which the award recipient, or a subaward recipient or subcontractor, retains title, the Federal government shall have a nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the subject invention throughout the world.

13. To assist in information sharing, the grantee shall provide the grant manager with a copy of all interim and final reports and proposed publications (including those prepared for conferences and other presentations) resulting from this agreement. Submission of such materials prior to or simultaneous with their public release aids NIJ in responding to any inquiries that may arise. Any publications (written, visual, or sound) - excluding press releases and newsletters - whether published at the grantee's or government's expense, shall contain the following statement: This project was supported by Award No. _____ awarded by the National Institute of Justice, Office of Justice Programs, U.S. Department of Justice. The opinions, findings, and conclusions or recommendations expressed in this publication/program/exhibition are those of the author(s) and do not necessarily reflect those of the Department of Justice.

NIJ defines publications as any planned, written, visual or sound material substantively based on the project, formally prepared by the grant recipient for dissemination to the public.

RLB



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14. The recipient shall transmit to the grant monitor copies of all official grant-related press releases at least ten (10) working days prior to public release. Advance notice permits time for coordination of release of information by NIJ where appropriate and to respond to press or public inquiries.
15. The Recipient agrees to comply with all Federal, State, and local environmental laws and regulations applicable to the development and implementation of the activities to be funded under this award. Environmental Assessment (EA): The Recipient agrees and understands that funded activities (whether conducted by the recipient or subrecipients or contractors) may require the preparation of an environmental assessment (EA) as defined by the Council on Environmental Quality's Regulations for implementing the Procedural Provisions of the National Environmental Policy Act (NEPA), found at 40 CFR Part 1500. An EA is a concise public document that briefly provides sufficient analysis for determining whether to prepare an environmental impact statement (EIS) or a finding of no significant impact for the proposed activity. If in completing an EA for a proposed activity, potential adverse environmental impacts are identified, the EA will serve as a vehicle for developing either alternative approaches or mitigation measures for avoiding or reducing the identified adverse environmental impacts. Modifications: Throughout the term of this award, the Recipient agrees that for any activity that is the subject of a completed Environmental Assessment (EA), it will inform NIJ of (1) any change(s) that it is considering making to the previously assessed activity; (2) any changed circumstances, such as a change in the project site's conditions; or (3) any significant new information. The Recipient will not implement a proposed change until NIJ, with the assistance of the Recipient, has determined whether the proposed change will require additional review under NEPA. Likewise, in the case of new circumstances or information arising, NIJ, with the assistance of the Recipient, will determine if any additional environmental impact analysis is necessary. The approval will not be unreasonably withheld as long as any requested modification(s) is consistent with eligible program purposes and found acceptable under an NIJ-conducted environmental impact review process.
16. Pursuant to 28 C.F.R. Part 18, OJP may suspend or terminate funding under this award, at any time before the completion of the project funded by this award, for the recipient's failure to comply with these special conditions or with the projects goals, plans and methodology set forth in the approved application. The recipient will be unable to draw down funds until OJP determines that the recipient is in compliance.
17. The Project Director and key program personnel designated in the application shall be replaced only for compelling reasons and with the concurrence of OJP. OJP will not unreasonably withhold concurrence. All successors to key personnel must be approved, and such approval is contingent upon submission of appropriate information, including, but not limited to, a resume. Changes in other program personnel require only notification to OJP and submission of resumes, unless otherwise designated in the award document.
18. The Recipient may not commence activities under this award, and may not obligate, expend, or draw down any funds, until: (a) the Office of the Chief Financial Officer, Office of Justice Programs, has issued clearance of the application budget and budget narrative; (b) NIJ has verified that the Recipient's proposed use of funds meets the requirements set forth in the program announcement and in this award; and (c) a Grant Adjustment Notice (GAN) has been issued removing this condition.
19. The recipient agrees not to obligate, expend, or draw down any funds until the program office has verified that the recipient has submitted all necessary documentation required to comply with the Department of Justice Procedures for Implementing the National Environmental Policy Act found at 28 CFR Part 61 and a Grant Adjustment Notice has been issued removing this condition.

PCB

PROGRAM NARRATIVE

1. ABSTRACT

The goal of the Palm Beach County Sheriff's Office (PBSO) Violent Crimes Division (VCD) and Special Investigations Division (SID) is to investigate every violent no-suspect case from the entire county and to conduct DNA analysis on any possible probative biological evidence. The end result is to close cold cases using more current technology to aid in a judicial finding. This goal was partially realized with an NIJ 2005 Cold Case grant award in which monies were used to investigate and/or analyze 85 VCD and SID Cold Cases from the estimated 225 cold cases. A critical evaluation of all aspects of each case was done including organization of reports, forensic testing, timelines and delineation of potential biological evidence followed by ranking each case on a 1-3 scale depending on the potential for obtaining DNA profiles from the evidence where a ranking of 1 means there is a great potential for probative DNA results, 2 means more investigation is needed and a 3 means a very low possibility of biological material. The Palm Beach County Sheriff's Office continues to fulfill their commitment of providing eight fulltime detectives to help complete the goals of this grant. The DNA Section used state-of-the-art technology for DNA testing capabilities and where appropriate, DNA evidence was submitted to private vendors for hair analysis, Y-STR analysis and mtDNA analysis. Over 60 VCD cases have been extensively investigated. Evidence could not be located in five of the homicide cases (8%). However, DNA analysts have been assigned to 55 of these homicide cases in which to date, 21 have probative DNA evidence (42%). DNA analysis of probative evidence has led to three arrests with judicial findings pending. In addition, 85% of the DNA profiles obtained from the homicide Cold Cases have unknown profiles which were submitted to CODIS. The SID cold cases have also been successful as 20 cases have been assigned to DNA analysts with one of them eliciting a cold CODIS hit from a brutal sexual assault. Testing is on-going. There are still 140 PBSO Cold Cases that have not been researched. It is estimated 60 of these would have a 1 or 2 priority ranking and 40 would provide probative DNA evidence. Grant monies will be used to continue the investigation of no-suspect violent crimes using the current successful Cold Case protocols.

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3. MAIN BODY

A. PROJECT PURPOSE GOALS AND OBJECTIVES

Palm Beach County is the largest county in the state of Florida covering nearly 2,000 square miles and a 2003-estimated population of 1.2 million people. There were over 72,000 reported crimes in 2000 with nearly 1 out of every 11 crimes involving violence. The Palm Beach County Sheriff's Office has been proactive in using many different methods to investigate crimes without suspects from the past and present as well as prepare for the crime increase that naturally comes with dramatic and rapid increases in the population. Until the award of the Cold Case grant, prioritizing cold cases had been a challenge. The challenges that existed before the grant including lack of resources including personnel, money for overtime and travel, and a lack of materials to track and document cold cases have been eliminated.

The purpose for applying for this Cold Case Grant is to continue the PBSO successful Cold Case investigative protocols for 60 additional no-suspect homicide and sexual assault homicide cases from the 140 archived cases that have not been researched. It is estimated there will be 40 cases that will rank as a 1 or 2 priority.

One of the goals of this proposal is to use the template for these 60 case reviews currently being used by the Cold Case Squad. This goal will be accomplished in four concurrent phases: Phase 1: Development of a Cold Case Review Program in which to identify all viable qualifying no-suspect cold cases meeting the solicitation guidelines; Phase 2: Prioritization through critical evaluation of all aspects of each case including organization of reports, forensic testing, timelines and delineation of potential biological evidence, Phase 3. Submission of probative evidence to the Forensic Biology Unit for serological screening, DNA testing and submission of qualifying DNA profiles to CODIS and Phase 4: Submission of evidence to the State's Attorney Office for potential judicial findings. This four-phase program will allow for the complete analysis of all viable violent no-suspect cold cases in the county regardless of the size of the agency. The objective of this approach is to provide investigative leads or to continue to solve the no-suspect cold case backlog and provide a foundation for the analysis of all future violent no-suspect cases.

Regarding the current Cold Case Grant, it is estimated that by the end of the grant in December, 2007, the proposed 85 no-suspect violent cases will have findings including one of the following: an arrest, probative DNA profiles in CODIS or the case is closed due to lack of biological evidence or no evidence can be found. This will have been possible by the coordination among the VCD, Forensic Biology Laboratory and the State Attorney's Office. The official approval for spending the grant monies was in November, 2006. Since this time, the screening of over 50 cases consisting of nearly 650

submissions and over 1100 stains screened by the Forensic Biology Unit with over 700 of these stains analyzed for DNA. Forty-eight probative profiles have been entered into CODIS. Included in the success of the Cold Case Squad is the arrest of a suspect in the 1996 murder of a mother and her 14 year old son, an arrest of an individual currently incarcerated in Wisconsin when a cold hit occurred on evidence from a young man who was brutally stabbed to death in 1991 and the arrest of a husband in the beating and stabbing death of his wife in 2000. In addition, hairs found on the chest of a five year old girl who was murdered in 1985 matched a suspect who died in 2005. The mother of this little girl wept upon being told by the investigator, "It's over". It is for this reason it is important to continue the work of the PBSO Cold Case Squad. (See newspaper account attachments)

An additional objective of this proposal is to maintain proper documentation of all researched cases for the purpose of maintaining chain of custody for evidence in anticipation of courtroom testimony. With the help of the grant monies, predominantly overtime, to provide detailed reviews of each case, investigation of evidence associated with the case, the ability to complete the interview processes, conduct serological and DNA analysis followed by a judicial review of a complete case file packet, the cold cases can be resolved.

It is estimated that there are approximately a total of 225 cold cases from the Violent Crimes Division of which 60 may meet the criteria set forth by this grant. With the commitment of law enforcement and laboratory personnel, the cases can be prioritized, assigned and thoroughly investigated.

The final goal is to close out through judicial or fact findings all 40 cases meeting the 1 or 2 ranking. This is not unrealistic considering the vast amount of experience in the detective bureau and DNA laboratory.

B. RELEVANT LITERATURE

One of the main reasons for these successes is the dedication of personnel by the Sheriff to this squad. The *Cold Case Concept* was first described by Charles Regini from the FBI/Metropolitan Police Department Cold Case Homicide Squad in Washington, DC in 1997. In this article Special Agent Regini describes the import of dedicating experienced detectives to investigate cold cases. "*Selecting effective investigators and supervisors is a key component of the squad's success. Only the most experienced, innovative, and persistent investigators should work cold cases because these cases, by their very nature, represent some of the most perplexing and frustrating investigations that detectives face. These are the cases that other extremely competent investigators could not solve*".

In the July 2003 Bureau of Justice Assistance Bulletin, "*Cold Case Squads, Leaving No Stone Unturned*" also describes the importance of having a leader, "usually a sergeant" who coordinates the operation of the entire team of detectives. PBSO's VCD Sergeant Springer and SID's Sergeant Keane have effectively served as the coordinators of the

cases, assigning each a priority ranking, developing universal worksheets, attending monthly summary meeting, distributing the Cold Cases to the investigators and following up on all issues. . PBSO acknowledges there must be a dedicated Cold Case Squad and continues to make available their most experienced detectives and has agreed to extend this commitment for the purposes of this grant.

C. IMPLEMENTATION PLAN

This proposal describes an effective plan to continue to solve PBSO violent cold cases by identifying and prioritizing qualifying cases for the purpose of intensive investigation and forensic DNA analysis.

1. The project design involves the following Personnel/Units:

- A. Point of Contact for the Forensic Biology Unit-Cecelia Crouse, PhD
 - 1. The Forensic Biology Unit consists of eleven individuals including a Supervisor, Laboratory Analyst, four Senior Forensic Scientists, a Technical Leader/ Senior Forensic Scientist, and a CODIS Administrator/ Senior Forensic Scientist. Seven of the analysts are DNA proficient and will be involved in the Cold Case analysis process.
 - 2. The American Society Of Crime Lab Directors/Laboratory Accreditation Board (ASCLD/LAB) has accredited the Forensic Biology Unit since 1996. The 2007 inspection found 100% compliance with all Standards.
 - 3. The laboratory has always maintained and is dedicated to a policy of conducting DNA analysis on no-suspect cases.
 - 4. The DNA laboratory has been conducting Short Tandem Repeat analysis on casework evidence since September 1995. The laboratory currently conducts STR analysis using the Promega PowerPlex16 kit that includes fifteen (15) STR loci plus the sex-typing locus Amelogenin. The Hitachi allele detection system is used to analyze DNA profiles.
 - 5. The laboratory currently has the ability to improve and enhance case evidence documentation through Mideo System analysis and the Justice Trax Laboratory management System.
 - 6. The laboratory has been submitting DNA profiles into the Local and State CODIS system since 1997. Both the CODIS Administrator and the Assistant CODIS Administrator are trained in the use of CODIS and PBSO is always represented at the National CODIS meeting.
 - 7. An evaluation team from Quality Forensics conducted a "Laboratory Process Mapping" evaluation for the PBSO DNA Section in August of 2004. This process provided a template for not only assessing the current and future needs of the DNA section but dramatically helped in the development of a DNA workflow design for the newly acquired space in order to increase the capacity of the laboratory. NIJ grant monies were used for both the process mapping and the new laboratory space. Both have been invaluable for the PBSO Cold Case initiative.

B. Point of Contact Violent Crimes Division- Sergeant Bill Springer (or designee)

1. The Violent Crimes Division (VCD) consists of a Captain, a Lieutenant, four Sergeants, and twenty-three (23) detectives. For the purpose of this grant, Sgt. Springer and four detectives will be dedicated to the investigation of the Cold Cases. In addition, a Criminal Intelligence Analysts will provide assistance in the organization of this project by maintaining all records associated with the prioritized cold cases. In addition, this analyst will be "on call" when detectives are out of town on cases. This will be coordinated prior to the detectives travel. The analyst will be proficient in the use of DAVID, NCIC, FCIC, PALMS and MATRIX and be able to conduct line-ups with approval of supervisor. All individuals assigned to the Cold Case Squad have extensive training and are proficient in the investigation and collection of crime scene evidence. They are also extensively trained in the use of computer software programs.
2. The purpose of the Violent Crimes Division is to investigate all violent crimes including suicides, homicides, endangered adult missing persons, any suspicious death and aggravated batteries and aggravated assaults and robberies.
3. Sgt Springer will be responsible for overseeing the VCD portion of the grant. He will be actively involved in the processing of cold cases as well as assigning and maintaining summary updates on all cold cases.

C. Point of Contact Budget Considerations- Barbara Caraballo

1. Barbara Caraballo is the Forensic Quality Assurance Manager for the Technical Services Division that includes the Crime Laboratory.
2. She is also responsible for overseeing the budget documentation requirements for all federal, state and local grant submissions and awards.

2. Cold Case Squad Objectives:

A. *Initiation of identification of Cold Cases: The VCD has a dedicated room that is used for the purpose of organizing and maintaining all records, equipment and materials directly associated with the objectives of this grant.*

1. Cold Case Workstations: The most important task set forth by this proposal is the initial organization of all information associated with each case in order to determine the direction of the investigation and the prioritization of cases.
 - a. All cold cases will be centralized in the assigned space to make the initial research of the cases more efficient.

- b. The space provides dedicated areas for cataloguing each case notebook and all accompanying documents. This includes report writing area, shelving, filing cabinets and general office supplies.
 - c. A dedicated laptop will be used exclusively for logging all cold case information on a "Cold Case Log" form which includes but is not limited to date of incident (s), case number(s), agencies involved, all witnesses, dates of interviews, victim information, a list of evidence collected in the case, all forensic results, warrant information, updates as the case progresses, budget information (travel for interviews), etc. In addition, a digital camera will be used to record and capture all evidence in the case and this data will be filed in the same electronic folder as the case summary data files.
 - d. A Dry Wall Board is used to identify the ongoing status of each case, that is, the detective assigned, case number, victim, current status, tasks associated with the case etc. This is important so that milestones are met for each case.
 - e. ***The necessary electronic tracking forms have already been designed and include: Cold Case Log, Video Recording Log, Evidence Itemization (will keep track of all the item numbers used for each submission-crime scene vs. laboratory identifiers), Budget Log, timeline and Milestone forms.***
2. Identification of Cold Cases: To date, the VCD has identified approximately 225 violent crimes of which 85 have already been researched. The VCD will be collating a list of 60 new archived cold cases currently stored at the PBSO. It is estimated that 40 of these cases will qualify as a Category 1 or 2 cases (see below).

All cases will be categorized according to the level of potential success. This includes but is not limited to cases that should potentially have a judicial finding, statute of limitations cannot or will not expire, evidence may be located, victims are willing to prosecute and the evidence collected may be probative if DNA analysis is conducted. It is estimated this initial screening of the cold cases will be the most critical aspect of the project. The cold cases will be categorized as:

- a. Category 1-High Success: The Cold Cases have obvious probative biological evidence in which serological enzyme analysis had been conducted and using PBSO DNA testing would provide a qualifying CODIS DNA profile.
- b. Category 2-Moderate Success: The Cold Cases may have probative biological evidence but all of the evidence was not originally tested or there is evidence, which previously would be considered unsuitable for forensic analysis, but with the PBSO DNA technology may offer more discriminating results.

These cases will be the most time consuming, as the evidence will need to be located, potential evidence with biologic stains evidence identified and the stains screened by the laboratory personnel.

- c. Category 3-Low Success: Cases which are selected for this level are those in which there is no evidence, statute of limitations has run, victims will not prosecute or any other circumstance in which investigation into the case would not result in a successful prosecution.
3. Cases to be investigated: It is estimated that with the resources that will be available for this project, the VCD units will select approximately 40 cases from the remaining violent cold cases that will meet the Category 1 and 2 requirements. When identified, the cases will be further prioritized by
- a. DNA extracts are available: Cases in which HLA DQA1 genetic marker has been conducted and STR analysis would provide additional, more useful data will be prioritized.
 - b. Stains: Cases where a biological stain has been serologically identified such as blood or semen, and the stains have been excised and preserved.
 - c. Items: Submissions from the crime that include items that will need to be screened for biological evidence before conducting DNA analysis.

B. **Prioritized Case Assignments:** The Point of Contacts for the VCD will be responsible for the assignment of all selected cases to detectives and Cecelia Crouse will be responsible for dedicating a laboratory analyst to the prioritized cases. The assignments will be based on the analyst and detectives experience and current casework load.

- b. **Case Data Documentation:** The VCD will dedicate experienced detectives to the Cold Case project. The Captains of these bureaus have already agreed to dedicate detectives for an eighteen-month period once the grant funding begins.
- c. **Laboratory Involvement:** The Forensic Biology Unit will review the prioritization of the cold cases to verify the correct classification has been assigned. Once assigned:
 - A. An analyst will aid in determining the type and number of biological samples to be tested depending on case issues.
 - B. The potential success of using STR technology will be determined.
 - C. When necessary, the submission of hairs/bone/teeth to a private vendor for mitochondrial DNA analysis will be considered.
 1. Hairs will be screened microscopically by a qualified vendor before mtDNA is considered

2. Victim standards are essential for criminal case hair comparisons.
 3. Missing person's mtDNA comparison will be made when relative comparison STR analysis cannot be conducted, or when odontology, anthropological data or personal effects will not identify the individual.
- D. If a foreign DNA profile is entered into CODIS and a hit is not generated, an option may be to submit the DNA extract to DNAPrint Genomics for BioGeographical Ancestry. *Note: PBSO has submitted two cases to this vendor with one case eliciting extremely beneficial information regarding the BGA of the DNA sample. The information gleaned from the sample will be used as an investigative aid.*
 - E. Laboratory reports will be written when analysis is complete.
 - F. The CODIS Administrator will give updates regarding any qualifying DNA profile that has entered into CODIS.
 - G. The CODIS Administrator and the DNA analyst assigned to the cold case(s) in conjunction with information from the detectives, will determine which stains with biological evidence will be the most probative and meet the standards of the DNA CODIS Section.
 - H. DNA profiles with a CODIS hit will be researched and investigated for a judicial ending. In addition, non-CODIS hit DNA profiles will be researched for issuance of a possible John Doe warrant by the prosecutors office.
 - I. All forensic analysis results will be logged into the appropriate Workstation computer to consolidate all case information.
 - J. Electronic forms will be designed to track all case information. Each detective will be responsible for completing the forms for each case.
 - K. Detectives must create a Timeline that recreates what is currently known about their specific cases. This must be kept as an electronic document and updated each time a task is initiated or completed.
 - L. Each detective must design and complete milestones associated with each case. This must be kept as an electronic document. Summaries of the case-specific milestones must be presented at designated Status Check meetings.

M. Note that travel for investigative purposes will be integral to the completion of the Timeline and Milestone tasks. Each Detective will be responsible for maintaining a travel log identifying the case(s), reason for travel (egs interview, transport evidence), cost of the travel, individuals to be interviewed, results of the interview process and other necessary comments/details.

d. Status Checks: Once a case has been assigned and the timeline and milestone information has been determined, it is important to maintain a status check of the case(s).

A. Each detective will be required to be present at a Status Check meeting in order to review the standing of required tasks. The point of contacts will determine the number of meetings times and duration. It is estimated that monthly meetings will be scheduled to keep up with the data from the detectives' investigations. The meetings may be case-specific and not involve other Cold Case squad Members.

B. Crime laboratory personnel will be present when necessary.

e. Prosecution:

A. The State Attorney's Office will be invited to the Status check meetings when appropriate in order to aid the Cold Case Squad in providing the most comprehensive and complete case possible.

C. Budget considerations:

a. Overtime will be necessary for the VCD team members which include the Criminal Analyst and the Forensic Biology staff when organizational meetings are scheduled after normal work hours.

b. Travel for investigators where appropriate

D. MANAGEMENT PLAN AND ORGANIZATION:

PBSO will provide detailed plans to fulfill the objectives described within the solicitation including:

1. Continuation of a collaborative program among the Violent Crimes Division, the Forensic Biology Unit of the Crime Laboratory and the State Attorney's Office to identify all qualified violent no-suspect cold cases for serology and DNA analysis to the end that submission of appropriate DNA profiles into CODIS will reduce the casework backlog and solve crimes.

2. Implementing a collaborative program to prioritize all qualified violent no-suspect cold cases based on the potential for the existence of biological evidence and classifying according to the potential for success as defined by solving a cold case. The categories of success are Category 1-High Potential, Category 2-Moderate Potential and Category 3-Low Potential.
3. Investigation of Category 1 and Category 2 cold cases through witness interviews, compiling and generating all data associated with a cold case. Review of existing DNA analysis such as initial results, locating DNA extracts in which DNA analysis was stopped after quantification and the
4. Providing serology and DNA analysis violent no-suspect cases in the PBSO laboratory to increase the potential for solving crimes through local, state and CODIS database searches.
5. Verification that the monies granted pay for actual work conducted on the identification of violent no-suspect cases, sample testing and prosecutorial research of viable cases.
6. To assure that all Quality Assurance and Quality Control standards for Forensic DNA Testing Laboratories issued by the FBI Director are adhered to in the strictest sense.
7. Reporting Performance Measures that include the number of
 - a. crime cold cases reviewed,
 - b. crime cold cases where there is biological evidence,
 - c. cold cases in which DNA analysis is performed
 - d. DNA profiles entered into CODIS
 - e. number of CODIS hits

E. REFERENCES – Newspaper Articles

Husband charged in cold case killing

BY CHRYSYTIAN TEJEDOR
STAFF WRITER

For years the case lay dormant.

But in July, the State Attorney's Office asked the Palm Beach County Sheriff's cold case squad to re-examine the Sept. 26, 2000, killing of Toni Heartsong outside her Jupiter Farms home.

There were few leads left to follow. But in two short months, several crucial pieces of DNA evidence led detectives to arrest Heartsong's husband, Robert Van Heartsong, 61.

Before the DNA evidence was retested, investigators talked to a homeless man who was thought to have broken into the Heartsongs' home, but he was ultimately cleared.

That helped debunk the first working theory about the case — that it was a burglary gone wrong.

Then information on Heartsong's killing — along with several other unsolved homicides in Palm Beach County — was placed on decks of playing cards given to inmates at the county jail in hopes of gleaning enough information to solve the case.

But it was DNA evidence found under Heartsong's left thumbnail and on her right

palm that led detectives to arrest a suspect on Tuesday, exactly six years after the slaying.

The DNA tests "confirmed what we had before to a higher standard," Sheriff's Detective John Van Houten said of the evidence, which was retested months ago using precision that was not available in 2000.

Detectives on Tuesday showed their evidence to a grand jury, which indicted Van Heartsong on first-degree murder charges.

Van Heartsong denied killing his wife, detectives said.

Detectives offered few details of Heartsong's killing but said deputies who were called to her home in the 11200 block of 150th Court North, west of Jupiter, found a grisly scene.

Van Heartsong was being held at the Palm Beach County Jail without bail Tuesday night. He is scheduled to make his first appearance before a judge today.

Staff Researcher Barbara Hijek contributed to this report.

Chrystian Tejedor can be reached at ctejedor@sun-sentinel.com or 561-243-6645.

arrest in '96 case

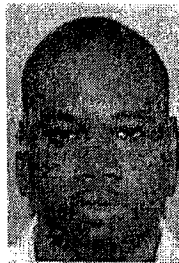
Woman and her son, 14, were shot to death in West Palm Beach

BY CHRYSTIAN TEJEDOR
STAFF WRITER

DNA evidence again has landed a West Palm Beach man in jail for the killing of a 33-year-old woman and her son, the Palm Beach County Sheriff's Office said.

Kerwayne Anthony Bradbery, 29, was booked into the Palm Beach County Jail on Monday on two counts of first-degree murder and one count of burglary.

It wasn't the first time.



Bradbery

Bradbery, then 17, killed Loriston and Demesmin because Loriston was spending too much time with his girlfriend and because he didn't want Demesmin flirting with his sister.

After walking into Loriston's two-story apartment in West Palm Beach, detectives found Demesmin dead with a bullet through the top of his head. His wrists and ankles were bound and

Investigators arrested Bradbery shortly after the Jan. 20, 1996 slayings of Marie Loriston and her son Christian Demesmin, 14, after his clothes were found to have blood from both victims.

At the time, detectives thought Bradbery, then 17, killed Loriston and Demesmin because Loriston was spending too much time with his girlfriend and because he didn't want Demesmin flirting with his sister.

After walking into Loriston's two-story apartment in West Palm Beach, detectives found Demesmin dead with a bullet through the top of his head. His wrists and ankles were bound and

a belt was fastened into a noose around his neck.

An autopsy showed Demesmin, an eighth-grader at Jefferson Davis Middle School, had a fractured skull and had been kicked or punched in the rib cage.

Loriston had been shot three times in the head outside her son's bedroom door.

A witness also told detectives that Bradbery asked him to call Loriston's apartment because he wanted to know when she would be home.

Murder charges against Bradbery were dropped in 1997 after a judge ruled investigators had seized his clothes illegally. Detectives could not prove Bradbery agreed to hand over his clothes. Although investigators said Bradbery gave them oral permission, that conversation was not part of five hours of recorded interviews.

"It's been a long time coming. He never thought he'd be arrested again for the same crime, probably."

Paul Miller
sheriff's spokesman

But in January, the sheriff's Cold Case Squad asked the crime lab to test material left at the crime scene for DNA evidence and again they had evidence to charge him with the crime.

A sheriff's spokesman declined to detail the evidence because information in the case is sealed by court order.

Bradbery was arrested outside his apartment Monday and is being held at the County Jail without bond. He was expected to appear before a judge to-

day. "It's been a long time coming," sheriff's spokesman Paul Miller said. "He never thought he'd be arrested again for the same crime, probably."

Staff Researcher William Lucey
contributed to this report.

Chrystian Tejedor can be reached at
ctejedor@sun-sentinel.com or
561-243-6645.

DNA tests on hair now prove drifter raped, killed 5-year-old girl in 1985

By ROCHELLE E.B. GILKEN
Palm Beach Post Staff Writer

WEST PALM BEACH — So much went wrong in the 22 years since a little girl named Kizzy Brooms was raped, stabbed and dumped.

The suspected killer was arrested and set free. Fingerprints were unusable. Evidence was contaminated. The first DNA test in Palm Beach County wasn't conclusive.

Only now, almost two years after the suspect died of illness, is there evidence connecting the man to the

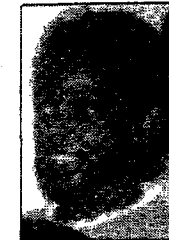
February 1985 murder.

The case of 5-year-old Kizzy Ann Brooms is finally closed.

Three hairs on Kizzy's sweatshirt and chest — tested with newer technology — came from William Barrow, the man arrested in 1996 for the crime. The charges were dismissed after he spent four months in jail.

Until his death at age 68, Barrow lived as a free man in an apartment in Salem County, N.J., often visiting

See DNA, 4A ►



Kizzy Brooms



William Barrow

Unsolved murder case closed after 22 years

William Barrow was charged in 1996 with murder in Kizzy Brooms' death, but contaminated evidence helped prompt a judge to dismiss charges. Barrow died almost two years ago.

Sheriff's office used grant to pay for new DNA tests

► DNA from LA

the Veterans Affairs hospital there.

Several times a year, Barrow would receive a greeting card from the detective who worked Kizzy's case.

Palm Beach County sheriff's Sgt. William Springer sent him images of children as angels with a message that Kizzy's mother deserved to know what happened.

Springer never got a response, but he sometimes got the cards back.

"We're closing this book," Springer said at a news conference Thursday. "The angel of death beat me to him. ... It's over."

Kizzy's mother is still living in West Palm Beach, still angry, still in counseling.

"Even though this man is gone, it gave me some satisfaction," Julie Anderson said. "But man, I tell you, the heart still remains the same. Hurt."

Anderson talks about Barrow as if he were taken from her.

"They let him go from me," she said. "I don't think that was fair. I'm also hurt with the state attorney, the judge who handled my case at that time. I still think I need apologies. They didn't have a right to release him from me."

In the years since Kizzy's death, Anderson has held various jobs and moved around a lot. She has a son, born a year after Kizzy, and for a while was fearful that whoever took Kizzy would take him.

"I moved around after I lost my girl. I wanted to keep moving, keep him safe," she said. "I didn't know if they were going to hurt my next kid. I can stay still (now)."

Her son, Walter Brooms, 28, also lives in West Palm Beach.

"I really don't get no justice out of that, by him dying," he said of Barrow. "That ain't no justice. The evidence was right there to convict him or what he did to my sister."

He wonders if people didn't care about Kizzy's case because she was a black girl.

Springer never gave up.

The last time anyone saw Kizzy was when she and her brother walked a block from their apartment at 709 N St. In West Palm Beach to play in Howard Park. Kizzy's brother came home that evening. Kizzy never did.

The last time anyone saw Kizzy was when she and her brother walked a block from their apartment at 709 N St. in West Palm Beach to play in Howard Park. Kizzy's brother came home that evening. Kizzy never did.

Two days later, a worker found her body near Dyer Boulevard and Interpace Road in suburban West Palm Beach.

Her death was a cold case twice, each time for 11 years.

In 1996, when charges of first-degree murder and sexual battery were brought against Barrow, a drifter at the time of her death, there were several problems.

A fingerprint on Kizzy's leg turned out to be a medical examiner's mark. A cigarette — a Dutch Treat Menthol — at the scene with Barrow's DNA also had unknown DNA that could have been from another person, possibly the killer.

The county's DNA supervisor, Dr. Cecilia Crouse, said more advanced tests recently found only DNA from Barrow and Kizzy at the scene. The unknown DNA found on the cigarette probably came from other evidence, which was kept in the same bag, she said.

"The way evidence was stored is very different than it is now," Crouse said.

DNA testing on hair became available in the past few years, and the sheriff's office used \$25,000 from a grant to get the ones in Kizzy's case examined, Springer said.

Barrow was arrested in 1996 on child molestation charges in New Jersey, but the case was dropped because the victim wouldn't cooperate, Springer said.

Barrow's family also accused him of molesting other children, he said.

The man who dismissed the charges here in 1996, Palm Beach County Circuit Judge Edward Garrison, is still on the bench.

From what he remembers, he made the right decision because there was only circumstantial evidence and a lingering DNA mystery.

"It would only haunt a judge (who is) naive enough to think that we get them all," Garrison said. "Some are never apprehended. Some, the evidence isn't strong enough to convict. The fact we now

have better testing methods doesn't give you ultimate justice in this particular case, but it is a sign we get better justice today."

Just last month, Springer testified in another cold case in Garrison's courtroom. In a non-jury trial, Garrison found Jessie Carranza guilty of first-degree murder and sentenced him to life in prison.

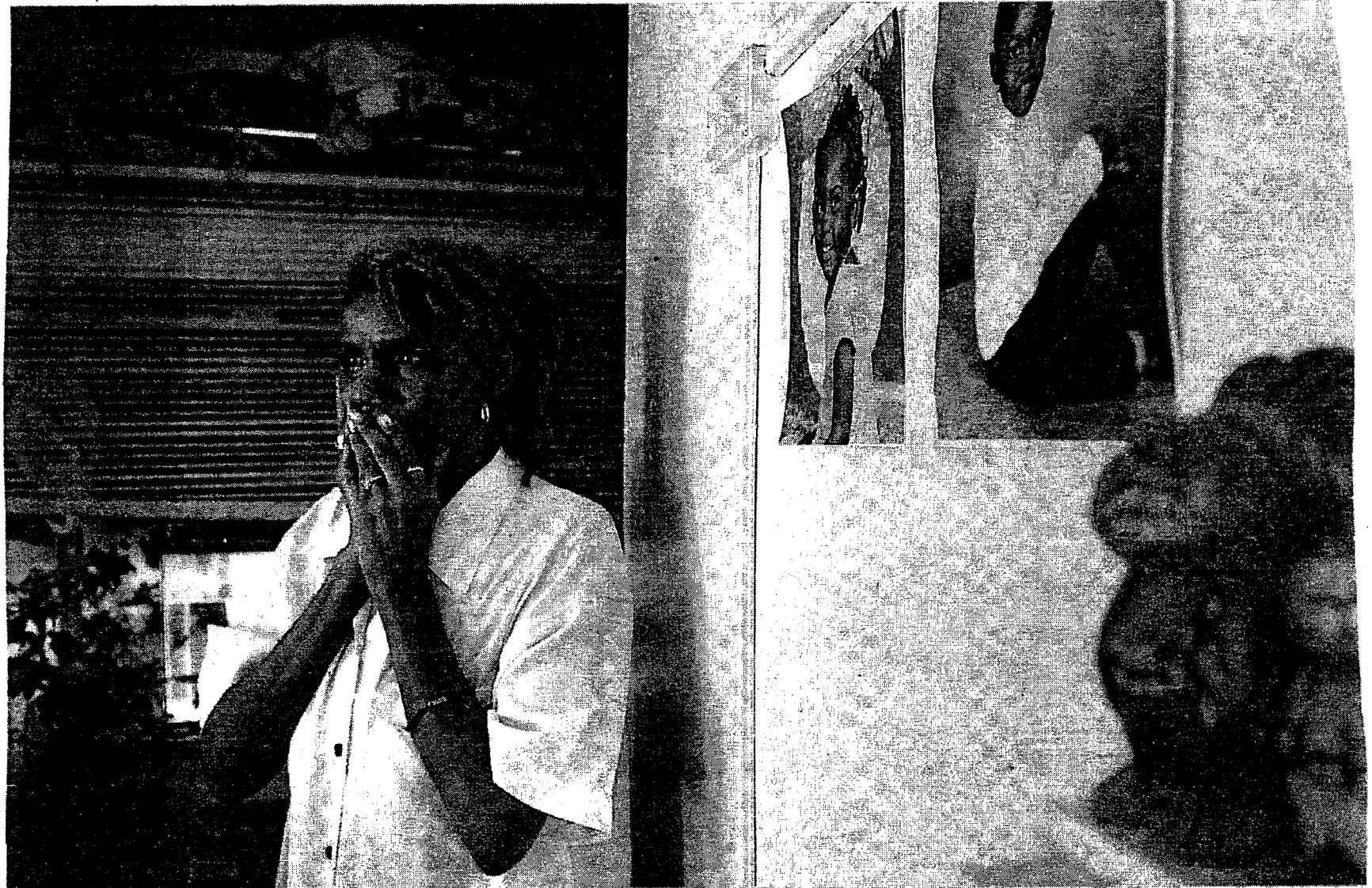
The decision came seven years after Amy Bataille, a 23-year-old medical assistant, had been strangled and dumped in a canal.

At that hearing, Bataille's sister Lauren said, "Finally, some kind of justice."

Justice that never came for Kizzy Brooms.

Staff researcher Sammy Alzofon contributed to this story.

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STILL GRIEVING: Julie Anderson, whose 5-year-old daughter, Kizzy Ann Brooms, was raped and murdered 22 years ago, feels that justice has eluded her even though new DNA evidence has indicated William Barrow was the killer. Barrow, the original suspect, died two years ago. Photo/Michael Francis McElroy

STATEMENT OF QUALIFICATIONS

Name of Lab: Palm Beach County Sheriff's Office
Date: August 2006

Name: Barbara K. Caraballo Title: Forensic Quality Assurance Manager

Discipline(s): Indicate all areas in which you do casework.

- | | | |
|--|--|------------------------------------|
| <input type="checkbox"/> Controlled Substances | <input type="checkbox"/> Toxicology | <input type="checkbox"/> Biology |
| <input type="checkbox"/> Firearms/Toolmarks | <input type="checkbox"/> Latent Prints | <input type="checkbox"/> Documents |
| <input type="checkbox"/> Trace Evidence | <input checked="" type="checkbox"/> Management/QA/QC/LIMS/Safety | |

Education: List all higher academic institutions attended.

Institution	Dates Attended	Major	Degree Completed
Ohio University	9/77-6/81	Forensic Chemistry	BS
NOVA Southeastern University	1/99 - 9/00	Public Administration	MPA

Other Training: List continuing education, workshops, in-service and other formal training received.
See Attached

Courtroom experience: List the discipline(s) in which you have qualified to testify as an expert witness and indicate over what period of time and approximately how many times you have testified in each.
See Attached

Professional Affiliations: List any professional organization of which you are or have been a member. Indicate any offices or other positions held and the date(s) of these activities.
See Attached

F. LIST OF KEY PERSONNEL

Name	Title	Department	Grant Function
Caraballo, Barbara	QA manager	Technical Services	POC: Budget Issues
Cornell, Michelle	Detective	Violent Crimes Division	Assistant, Sgt Springer
Cothran, Cathy	Sr. Forensic Scientist	Forensic Biology Unit	Serological/DNA analysis
Crenshaw, Karin	Sr. Forensic Scientist	Forensic Biology Unit	Serological/DNA analysis
Crouse, Cecelia	Supervisor	Forensic Biology Unit	POC*, Laboratory
Designee	Criminal Intel Analyst	Special Investigations Division	Data, Record Keeping
Farrell, Celynda	Forensic Scientist	Forensic Biology Unit	Serological/DNA analysis
Hicks, Dawn	Sr. Forensic Scientist	Forensic Biology Unit	Serological/DNA analysis
Lynn, Misti	Laboratory Analyst	Forensic Biology Unit	Serological/DNA analysis
McCann, Paige	Detective	Violent Crimes Division	Assistant, Sgt Springer
McElroy, Melanie	Laboratory Analyst	Forensic Biology Unit	Serological/DNA analysis
McGuckian, Amy	Technical Leader	Forensic Biology Unit	Serological/DNA analysis
Miller, Russell	Forensic Scientist	Forensic Biology Unit	Serological/DNA analysis
Sessa, Tara	CODIS Administrator	Forensic Biology Unit	CODIS Administrator
Sikorsky, Julie	Sr. Forensic Scientist	Forensic Biology Unit	Serological/DNA analysis
Springer, William	Sergeant	Violent Crimes Division	POC*, Violent Crime Bureau
Van Houten, John	Detective	Violent Crimes Division	Assistant, Sgt Springer
Woodward, Patrick	Detective	Violent Crimes Division	Assistant, Sgt Springer

G. RESUMES KEY PERSONNEL

Name: Barbara K. Caraballo

Employment History: List all scientific or technical positions held, particularly those related for forensic science. List current position first. Give a brief summary of principal duties in each position.

(1) Job Title: For .Quality Assurance Manager Employer: Palm Beach Sheriff's Office
Principal Duties: Quality Assurance and Quality Control, Accreditation, Coordinator of LIMS Network, Database Administrator, Special projects, Safety Officer, Grant Administrator, (11/99 to present)

(2) Job Title: Administrative Supervisor Employer: Palm Beach Sheriff's Office
Principal Duties: Supervisor of laboratory evidence section and administrative office. Coordinator of LIMS, special projects, quality assurance and employee development, safety officer. Budget, Business plan (5/96 to 11/99)

(3) Job Title: Chief Forensic Serologist Employer: Palm Beach Sheriff's Office
Principal Duties: Supervisor and case-working analyst. Responsible for budget, planning, training and the research and implementation of new techniques. (10/91 to 5/96)

(4) Job Title: Forensic Scientist III Employer: Palm Beach Sheriff's Office
Principal Duties: Case-working forensic serologist. (11/89 to 10/91)

(5) Job Title: Senior Criminalist Employer: Lake County Regional Crime Lab
Principal Duties: Case-working forensic serologist and trace evidence examiner, responsible for crime scene analysis and the implementation of new techniques. (1/87 to 10/89)

(6) Job Title: Criminalist Employer: Lake County Regional Crime Lab
Principal Duties: Case-working forensic serologist and trace evidence examiner. (6/81-1/87)

Other Qualifications: List below any scientific publication and/or presentation you have authored or co-authored, research in which you are or have been involved, academic, or other teaching positions you have held, and any other information which you believe relevant to your qualification as a forensic scientist. Use additional sheets if necessary.

See attached

Statement of Qualification
Barbara K. Caraballo

Other Training:

JusticeTrax User's Group, Scottsdale, Arizona 7/10-14/06
NIJ DNA Grantees Meeting, Washington, DC 6/26-28/06
FBI Laboratory Management Symposium, Georgia Tech, Atlanta, GA 5/7-11/06
NIJ Grantees Workshop, Hilton Head, SC, 1/29-2/1/06
4th Annual AFQAM Meeting, Indian Rocks, Beach, FL 10/3-7/05
FBI Laboratory Management Symposium, UM, Ann Arbor, MI 8/14-18/05
JusticeTrax User's Group, Scottsdale, Arizona 8/7-12/05
DNA Audit Document Refresher Training, FBI Academy, Quantico, VA (2004)
FRN/CLIP Conference, Tampa, FL, (2004)
32nd Annual Crime Lab Development Symposium, Minneapolis, MN, (2004)
AFQAM Meeting, Las Vegas, NV (2004)
FCLC ISO 17025 Workshop, Largo, FL (2004)
NIJ DNA Summit (DNA Grant), Washington DC (2004)
AFQAM Meeting, Indianapolis, IN, (2003)
JusticeTrax User's Group Meeting, Phoenix, AZ, (2003)
JusticeTrax User's Group, Phoenix, AZ (2003)
ISO 17025 Workshop, AFQAM Mtg. Austin, TX (2002)
JusticeTrax User's Group, Phoenix, AZ (2002)
ASCLD/LAB Inspector Training, Salt Lake City, UT (2002)
DNA Audit workshop, Washington DC, (2001)
Performing Effective Audits, FBI Academy, Quantico, VA (2000)
JusticeTrax, Advanced Crystal Reporting, Phoenix, AZ (2000)
Laboratory Auditing Workshop, NFSTC (1999)
JusticeTrax, Designing Custom Reports, Phoenix, AZ (1999)
Quality Assurance Symposium, San Antonio, TX (1999)
Proficiency Testing in the Forensic Science Laboratory, AAFS Workshop, Orlando, FL (1999)
JusticeTrax Joint Application Design, Phoenix, AZ (1998)
Ethics in Forensic Science, AAFS Workshop, New York, NY (1997)
Laboratory Quality Assurance, FBI Academy, Quantico, VA. (1996)
CODIS Administrator's Training, Vienna, VA (1997)
CODIS User's Group, Tallahassee, FL (1996)
Statistics and Population Genetics for Forensic Science, Summer Institute in Statistical Genetics, NCSU, Raleigh, NC (1996)
DNA Typing with STR's Workshop, Promega Corp., Madison, WI (1995)
Florida DNA Training Session III, Advanced PCR Applications, Orlando, FL (1995)
Florida DNA Training Session II, PCR Applications, Orlando, FL (1993)
Advanced Aspects of Forensic DNA Analysis, FBI Academy, Quantico, VA., (1992)
HLA DQ α , Polymarker, AMP-FLP Workshop, Perkin-Elmer / Roche Molecular Systems, Richmond, CA. (1992)
Forensic DNA Profiling, Metro-Dade Crime Laboratory, Florida International University graduate credit (1991)
Florida DNA Training Session I, Orlando, FL (1990)
Forensic / Laboratory Application of DNA Typing Methods, FBI Academy, Quantico, VA., University of Virginia graduate credit (1990)
Non-Isotopic Detection of DNA Polymorphisms Workshop, Allo-Type Genetic Testing, Atlanta, GA. (1988)

Human Immunoglobulin Allotyping Workshop, Allo-Type Genetic Testing, Atlanta, GA. (1987)
Biochemical Methods of Bloodstain Analysis, FBI Academy, Quantico, VA., University of Virginia graduate credit (1985)
Microscopy of Hairs and Fibers, FBI Academy, Quantico, VA., (1984)
Bloodstain Pattern Analysis, MAFS, Silver Lake, MN (1984)
Forensic Fiber Microscopy, McCrone Research Institute, Chicago, IL., (1984)
Advanced Trace Evidence Microscopy, McCrone Research Institute, Chicago, IL., (1983)
Semen Identification, Serological Research Institute, Emeryville, CA., (1982)
Applied Polarized Light Microscopy, McCrone Research Institute, Chicago, IL., (1981)

Courtroom Experience

1. Forensic Serology, 15 years, 80 times
2. Forensic DNA Analysis, 5 years, 6 times
3. Trace Evidence Analysis, 14 years, 45 times
4. Hair and Fiber, 45 times
5. Glass, 5 times
6. Paint, 5 times
7. Impression-shoe and fabric, 10 times
8. Mechanical matches, 10 times
9. Particle analysis, 10 times
10. Headlamp analysis, 5 times
11. Bloodstain Pattern analysis, 5 times

Expert witness testimony in the fields of Forensic Serology, Trace Evidence Examination, Drug Analysis, Crime Scene Analysis, Collection and Preservation of Biological Evidence and Bloodstain Pattern Analysis. Over 100 sworn testimonies in Common Pleas and Circuit Courts in Ohio, Pennsylvania and Florida.

Professional Affiliations

AFQAM

American Academy of Forensic Sciences, Criminalistics Section (Member)

Midwestern Association of Forensic Scientists (Member)

Southern Association of Forensic Scientists (Member)

Other Qualifications

Certification:

American Board of Criminalistics, Diplomate

ASCLD/LAB Inspector – Biology

Invited Lectures (Selected Listing):

Technical Services Bureau, Evidence Submission and Analysis - Palm Beach Sheriff's Office Law Enforcement FTO High Liability Training Program. 1999 – 2005

PBSO New Employee Orientation, Safety Committee and Broken Star. 2002 - 2004

Technical Services Bureau, Evidence Submission and Analysis - Palm Beach Sheriff's Office Law Enforcement Training Program, Feb. - June 2000
Crime Laboratory Procedures and Quality Assurance - Palm Beach County State's Attorneys Office, Feb. 1999
Crime Laboratory Evidence Submission and Packaging - PBSO FTO Training Instructor 1997- 1999
Crime Scene Procedure - The Collection and Preservation of Evidence Seminar- "Evidence Submission Procedures", Sponsored by the State Attorney's Office, 15th Circuit Court, FL, July 1997
Florida DNA Training Session III: Advanced PCR Applications - "Laboratory Needs for STR Systems", May 1995
Florida Division Of the International Association for Identification District VII - "Crime Lab Evidence", May 1994
Victimology, Sponsored by Palm Beach Atlantic College - "Sexual Assault Evidence and DNA Analysis", February, 1994
Florida Criminal Justice Executive Institute - "Violent Crime Investigations: Introduction to Crime Lab Procedures", September 1993
Palm Beach State Attorney's Office - DNA Workshop, May/June 1993
Florida DNA Training Session II: PCR Applications - "Technical Issues", May 1993

Panel Discussion Participant:

LIMS Systems - AFQAM, Austin, Texas, October 2002
JusticeTrax Joint Application Design Session, Phoenix, AZ, June 2000
AG Communications LIMS-plus Joint Application Design Session, Phoenix, AZ August 1998
FBI STR Standardization Committee - PBSO Management Representative Washington DC, April 1996 - November 1997
Licensing and Technology Transfer Issues for DNA Identity Testing Laboratories - Fifth International Symposium on Human Identification, Scottsdale, AZ October 1994
Quality in Forensic Science - American Academy of Forensic Sciences, Boston, Mass. February 1993

Publication:

Crouse C.A., Vincek V., Caraballo B.K., "Analysis and Interpretation of the HLA DQ α 1.1 Weak-Signal Observed During the PCR-Based Typing Method", Journal of Forensic Sciences. Vol. 39, No.1, January 1994, pp. 42-52

Service:

1. American Board of Criminalistics - Proficiency Review Committee 1994-1996, Recertification Committee, 1996-1999, 2001-2006
2. American Academy of Forensic Sciences - Criminalistics Section Surplus Funds Committee, 1994-1996.
3. PBSO Safety Committee, Co-Chair
4. PBSO Broken Star Committee
5. AFQAM, Chair Strategic Planning Committee
6. ASCLD/LAB Inspector, Biology

Michelle Cornell
3228 Gun Club Road
West Palm Beach
FL. 33406
561-688-4065
cornellm@pnbso.org

PROFILE

Professionally qualified Detective with more than 4 years experience investigating the cause and circumstances of natural deaths, unattended deaths, suicides, homicides and robberies. Since January 2007, I have worked primarily on unresolved homicides. I have reviewed numerous "cold cases" to determine if new forensic techniques and technologies could be applied to existing evidence to assist in identifying a suspect(s).

WORK HISTORY

Oct 2003-Present

Detective Violent Crimes Division
Palm Beach County Sheriff's Office
West Palm Beach, FL 33406

Responsibilities:

- * Response to Violent Crimes Scenes for investigation and collection of evidence
- * Prepare cases to present to State Attorney's Office
- * Familiar with CODIS DNA database
- * Skilled with proper investigation and collection of crime scene evidence
- * Experienced in testifying in criminal proceedings, grand jury, and depositions

Achievements:

- * Attended homicide and advanced investigative interview and Interrogation courses

Jan 2003-Oct 2003

Detective Property Crimes Division
Palm Beach County Sheriff's Office
West Palm Beach, FL 33406

Responsibilities:

- * Investigate property crimes including burglary, armed burglary, theft, dealing in stolen property and organized schemes to defraud
- * Experienced in testifying in criminal proceedings and depositions

EDUCATION

May-Sept 2000

Palm Beach County Criminal Justice Academy
Lake Worth, FL
Law Enforcement Certificate

1990-1994

Seton Hall University
South Orange, NJ
Bachelor of Arts Degree
Major in Criminal Justice
Minor in Social Work

REFERENCES

Available upon request

STATEMENT OF QUALIFICATIONS

Name of Lab: Palm Beach Sheriff's Office
Date: March 1, 2007

Name: Catherine J. Cothran Title: Senior Forensic Scientist

Discipline(s): Indicate all areas in which you do casework or support casework functions.

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| <input type="checkbox"/> Controlled Substances | <input type="checkbox"/> Toxicology | <input checked="" type="checkbox"/> Serology/DNA |
| <input type="checkbox"/> Firearms/Tool marks | <input type="checkbox"/> Latent Prints | <input type="checkbox"/> Clerical |
| <input type="checkbox"/> Crime Scene | <input type="checkbox"/> Photo | <input type="checkbox"/> Evidence |
| <input type="checkbox"/> Management | <input type="checkbox"/> Other _____ | |

Education: List all higher academic institutions attended.

Institution	Dates Attended	Major	Degree Completed
University of Central Florida	8/99 to 12/01	Forensic Science	BS
Hillsborough Community College	1995 to 5/98	Chemistry	AA
University of South Florida	8/92 to 5/94, 8/98 to 5/99	Biology/Chemistry	

Other Training: List continuing education, workshops, in-service and other formal training received and dates.

1. American Academy of Forensic Sciences 59th Annual Meeting, San Antonio, TX 2/19 - 24/07
2. Palm Beach County Sheriff's Office Eppendorf Mastercycler Training Program 2/2/07
3. Palm Beach County Sheriff's Office SlicprepTM96 Device Training Program 9/1/06
4. Fifth Annual Advanced DNA Technology Workshop by The Bode Technology Group, Inc. Captiva Island 5/30-6/2/06
5. Summer Expedition Sponsored by Promega Corporation, Orlando, FL, 6/14/05
6. Advanced DNA Technology Workshop Sponsored by The Bode Technology Group, Inc., Duck Key, FL, 5/23 - 5/26/05
7. Palm Beach County Sheriff's Office CPE Mixture Statistics Training Program 5/6/05
8. Palm Beach County Sheriff's Office ABI 7000 Real Time PCR Training Program 1/05 - 2/05
9. Seventh Annual STR Megaplex and Research Technology Workshop, Virginia Beach, VA, 3/29-4/1/04
10. Palm Beach County Sheriff's Office DNA Training Program, West Palm Beach, FL, 3/03 - 12/03
11. Courtroom Testimony Techniques "Success Instead of Survival" - Miami, FL 9/29-30/2003
12. Second Annual Advanced DNA Technology Workshop- Duck Key, FL, 5/12-15/2003
13. Palm Beach County Sheriff's Office Quantiblot and CCDBIO Analysis Training- West Palm Beach, FL 03/2003
14. Palm Beach County Sheriff's Office Serology Training Program- West Palm Beach, FL 10/2002-12/2002

15. Palm Beach County Sheriff's Office Evidence Handling Training Program- West Palm Beach FL 10/2002-12/2002

16. Internship with the Palm Beach Sheriff's Office (600hrs.) 5/01 to 8/01 DNA/Serology section

Courtroom experience: List the discipline(s) in which you have qualified to testify as an expert witness and indicate over what period of time and approximately how many times you have testified in each.

10/02 to present: Serology and DNA , 14 Depositions and 14 Court Room testimonies

Professional Affiliations: List any professional organization of which you are or have been a member. Indicate any offices or other positions held and the date(s) of these activities.

American Academy of Forensic Scientists, Criminalistics 10/2003

Name: Catherine J. Cothran

Employment History: List all scientific or technical positions held, particularly those related for forensic science. List current position first. Give a brief summary of principal duties in each position.

(1) Job Title: Senior Forensic Scientist Employer: PBSO

Principal Duties: Performing forensic science examinations: including screening crime scene evidence, identification of biological evidence, conducting DNA PCR-based analysis and comparison of genetic DNA profiles. Preparing reports of findings for use by the criminal justice system and testifying in court as an expert witness. Also responsible for participating in the research and validation of new technologies implemented on case work evidence and present scientific data at national and international meetings.

(2) Job Title: Forensic Scientist Employer: PBSO

Principal Duties: Performing forensic science examinations: including screening crime scene evidence, identification of biological evidence, conducting DNA PCR-based analysis and comparison of genetic DNA profiles. Preparing reports of findings for use by the criminal justice system and testifying in court as an expert witness.

(2) Job Title: Forensic Science Intern Employer: PBSO

Principal Duties: Performed a research project- Inheritance Study: The objectives that were considered were to show parent to child allelic transfer at 14 genetic markers, to investigate the possibility of mutations and microvariants and to gain exposure to obstacles that may challenge data interpretation. Among these were stutter products and replication slippage. Other obstacles that were encountered included DNA degradation and bacterial inhibitors. Also observed case work and aided visiting scientist.

(3) Job Title: Analyst Employer: Savannah Laboratories & Environmental Services, Inc.

Principal Duties: Services mainly consisted of water, soil and waste analysis. Pesticides, herbicides, hydrocarbons, metals and surfactants were among the targeted hazards that were extracted and analysis.
Responsibilities: Metals analysis and data entry, Atomic Absorbance Spectrometer operation and setup, organic extraction and metal digestion, equipment and solution preparation, waste disposal and bio-hazardous

Other Qualifications: List below any scientific publication and/or presentation you have authored or co-authored, research in which you are or have been involved, academic, or other teaching positions you have held, and any other information which you believe relevant to your qualification as a forensic scientist or forensic scientist support personnel. Use additional sheets if necessary.

1. Presentation: "Anything You Can Do I Can Do Better: A Robot's Perspective on Casework", 2006 Technology Tour sponsored by Promega Corporation, Hartford, CT. June 15, 2006
2. Presentation: "Evidence Collection", 1st Annual Homicide Conference, West Palm Beach, FL. October 25-27, 2005
3. Presentation: "Prioritizing Minor Crime DNA Analysis to Yield Major Results – No-Suspect DNA Backlog Reduction Grant", National Institute of Justice DNA Demonstration Project, September 26-27, 2005
4. David L. Duewer, Cecelia A. Crouse, Catherine Cothran and John M. Butler "New Tools to Aid Work with STR Profile Mixtures: MixSTR and Virtual MixtureMaker" National Institute of Justice DNA Grantees Meeting, July 2005
5. Presentation: "Software Therapy for Mind-Numbing Casework: DNA Mixture Analysis" 2005 Summer Expedition Sponsored by Promega Corporation, Orlando, FL, June 14, 2005 and Advanced DNA Technology Workshop Sponsored by The Bode Technology Group, Inc., Duck Key, FL, May 23 – May 26, 2005
6. Presentation: "NO-Suspect DNA Backlog Reduction Strategy for Success", Seventh Annual STR MegaPlex and Research Technology Workshop, Virginia Beach, VA, March 28 – April 1, 2004

STATEMENT OF QUALIFICATIONS
(Use additional sheets if necessary)

Name of Lab: Palm Beach Sheriff's Office
Date: May 30, 2006

Name: Karin A. Crenshaw Title: Forensic Scientist

Discipline(s): Indicate all areas in which you do casework or support casework functions.

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| <input type="checkbox"/> Controlled Substances | <input type="checkbox"/> Toxicology | <input checked="" type="checkbox"/> Serology/DNA |
| <input type="checkbox"/> Firearms/Toolmarks | <input type="checkbox"/> Latent Prints | <input type="checkbox"/> Clerical |
| <input type="checkbox"/> Crime Scene | <input type="checkbox"/> Photo | <input type="checkbox"/> Evidence |
| <input type="checkbox"/> Management | <input type="checkbox"/> Other _____ | |

Education: List all higher academic institutions attended.

Institution	Dates Attended	Major	Degree Completed
Florida Atlantic University	1995 - 1998	Biology	Master of Science
Florida Atlantic University	1989 - 1992	Biology	Bachelor of Science

Other Training: List continuing education, workshops, in-service and other formal training received and dates.

American Academy of Forensic Sciences 58th Annual Meeting, Seattle, WA, February, 2006

16th International Symposium on Human Identification, Grapevine, TX, September, 2005

Understanding DNA Statistics Workshop, Grapevine, TX, September, 2005

Courtroom Statistics Workshop, Duck Key, FL, May, 2005

BODE East Coast Advanced DNA Technology Workshop, Duck Key, FL (May, 2005)

7th Annual STR MegaPlex and Research Technology Workshop, Virginia Beach, VA (3/28/04 - 4/1/04)

Forensic DNA Analysis, Statistics, and CODIS Training Proframs (Completed on 12/9/03)

Courtroom Testimony Techniques, Miami, FL (9/29 - 30/ 2003)

Advanced DNA Technical Workshop, Duck Key, FL, (5/12/03-5/14/03)

Evidence/ Serology Training (Completed on 12/6/02)

Courtroom experience: List the discipline(s) in which you have qualified to testify as an expert witness and indicate over what period of time and approximately how many times you have testified in each.

Serology - Qualified since 12/6/02, Testified 2 times for ONLY Serology

DNA - Qualified since 12/9/03, Testified 13 times (serology & DNA)

Professional Affiliations: List any professional organization of which you are or have been a member. Indicate any offices or other positions held and the date(s) of these activities.

AAFS (American Academy of Forensic Scientists) - Affiliate since Oct. 2003

Florida Association of Science Teachers (FAST) - Area 10 Director 1998-2002

NABT (National Assoc. of Biology Teachers) – Member 1998 - 2001

NSTA (National Science Teacher's Assoc.) – Member 1998-2000

Name: Karin A. Crenshaw

Employment History: List all scientific or technical positions held, particularly those related for forensic science. List current position first. Give a brief summary of principal duties in each position.

(1) Job Title: Senior Forensic Scientist Employer: Palm Beach County Sheriff's Office

Principal Duties: Performing Serological analysis on evidence submitted to the laboratory for identification of biological fluids such as blood or semen. Performing DNA analysis on evidence. Preparing reports of findings for use by criminal justice system. Perform various other laboratory duties as needed.

(2) Job Title: Research Assistant Employer: Florida Atlantic University

Principal Duties: Performing molecular biology experiments involving Electromagnetic Field Effects on Yeast Cells. Techniques used included Gel Electrophoresis, plasmid isolation and purification, P.C.R., and autoradiography, cell culture and tissue culture. Performed various other lab duties as assigned.

(3) Job Title: _____ Employer: _____

Principal Duties: _____

Other Qualifications: List below any scientific publication and/or presentation you have authored or co-authored, research in which you are or have been involved, academic, or other teaching positions you have held, and any other information which you believe relevant to your qualification as a forensic scientist or forensic scientist support personnel. Use additional sheets if necessary.

Presentation "Evaluation of STR Allele Detection and Data Analysis Using Microcapillary Array Electrophoresis" September, 2005, 16th International Symposium on Human Identification, Grapevine, TX

Presentation "Laser Microdissection for DNA Analysis" March, 2004, 7th Annual STR MegaPlex and Research Technology Workshop, Virginia Beach, VA

Biology Teacher (1996 – 2002) - Cardinal Newman High School

Biology Instructor (1998-1999) - Keiser College

Master's Degree Thesis: August 1998, "Progress Towards Genetic Engineering of an EMF Responsive Plasmid in Yeast" – Presentation and Defense

Teaching Assistantship (1995- 1996) – Florida Atlantic University – Taught Intermediate Microbiology Lab, General Microbiology Lab, and General Biology Lab courses.

STATEMENT OF QUALIFICATIONS
(Use additional sheets if necessary)

Name of Lab: Palm Beach County Sheriff's Office
Date: August 21, 2006

Name: Cecelia A. Crouse, PhD Title: Supervisor, Serology/DNA

Discipline(s): Indicate all areas in which you do casework.

- | | | |
|--|--|--|
| <input type="checkbox"/> Controlled Substances | <input type="checkbox"/> Toxicology | <input checked="" type="checkbox"/> Serology |
| <input type="checkbox"/> Firearms/Toolmarks | <input type="checkbox"/> Latent Prints | <input type="checkbox"/> Documents |
| <input type="checkbox"/> Trace Evidence | <input checked="" type="checkbox"/> Other : <u>DNA</u> | |

Education: List all higher academic institutions attended.

Institution	Dates Attended	Major	Degree Completed
University of Miami	1988-1992	N/A	Post Doctoral Fellow
University of Miami	1983-1987	Micro/Immun.	Ph.D.
Michigan State Univ.	1974-1976	Biology	B.S.
Jackson Comm College	1972-1974	Science	A.S.

Other Training: List continuing education, workshops, in-service and other formal training received.

See Attached

Courtroom experience: List the discipline(s) in which you have qualified to testify as an expert witness and indicate over what period of time and approximately how many times you have testified in each.

DNA - 1992 to present: 67 testimonies have been given since 1992.

41 - Court

26 - Deposition/Grand Jury

Professional Affiliations: List any professional organization of which you are or have been a member. Indicate any offices or other positions held and the date(s) of these activities.

See Attached

Name: Cecelia A. Crouse, Ph.D.

Employment History: List all scientific or technical positions held, particularly those related for forensic science. List current position first. Give a brief summary of principal duties in each position.

(1) Job Title: Supervisor Serology/DNA Employer: Palm Beach Sheriff's Office
Principal Duties: Primarily responsible for the research, development, and application of DNA typing technologies for casework, and administrative duties.

(2) Job Title: Senior Forensic Scientist Employer: Palm Beach Sheriff's Office
Principal Duties: DNA techniques for identification of blood and body fluids. Training in basic serological techniques for case analysis.

(3) Job Title: Research Associate Employer: Eli Lilly and Company
Principal Duties: Primarily responsible for plant genetics program for field research stations.

(4) Job Title: Temp. Research Assistant Employer: Eli Lilly and Company
Principal Duties: Responsible for assisting senior scientist with a diversity of agricultural research projects.

Other Qualifications: List below any scientific publication and/or presentation you have authored or co-authored, research in which you are or have been involved, academic, or other teaching positions you have held, and any other information which you believe relevant to your qualification as a forensic scientist. Use additional sheets if necessary.

See attached

CECELIA A. CROUSE Ph.D.

August 20, 2006

CAREER HISTORY

1. Supervisor Serology/DNA Section, and DNA Technical Leader Palm Beach County Sheriff's Office Crime Laboratory (May, 1996-present)
* Primarily responsible for the research, development, and application of DNA technologies for casework as well as administrative duties
2. Senior Forensic Scientist, DNA Technical Leader, Palm Beach County Sheriff's Office Crime Laboratory (February, 1992-May, 1996)
* Primarily responsible for the development and implementation of DNA typing technologies for casework analysis
3. Research Associate: Eli Lilly and Company, Indianapolis IN. (1979-1983)
* Primarily responsible for plant genetics program for SE United States field research stations.
4. Temporary Research Assistant: Eli Lilly and Company, Indianapolis IN. (1978)
* Responsible for assisting senior scientist with a diversity of agricultural research projects.
5. Secondary Education Teacher: Frankenmuth High School, Frankenmuth, MI (1976-1978)
* Responsible for teaching high school science curriculum

EDUCATIONAL BACKGROUND

1. Post Doctoral Fellow: Department of Ophthalmology Bascom Palmer Eye Institute and Department of Microbiology and Immunology, University of Miami School of Medicine, Miami, Florida(1988-1992).
2. Ph.D., Department of Microbiology and Immunology, University of Miami, Miami, Florida (Dec, 1987)
3. B.S. Department of Natural Science, Michigan State University, East Lansing, Michigan (March, 1976)
4. Assoc. Science: Department of Science, Jackson Community College, Jackson, Michigan (Dec 1973)

SPECIALIZED EDUCATIONAL TRAINING

1. Application of DNA Typing Methods; FBI DNA training course, Quantico, VA (April 13- May 8, 1992) University of Virginia course credit
2. AmpliType HLA DQ alpha Forensic DNA Amplification and Typing Training Workshop; Perkin-Elmer/Roche Molecular Systems, Alameda CA (June 1-10, 1992)
3. Advanced Aspects of Forensic DNA Analysis; FBI DNA training course, Quantico, VA (November 16-20, 1992)
4. Forensic Serology; FBI Training course, Quantico, VA (June 7-11, 1993)
5. Statistics for Forensic Scientists Workshop, St. Petersburg Junior College Criminal Justice Institute, (January 22-24, 1996)
6. Statistics Workshop, 7th International Symposium on DNA Identification, Scottsdale, Arizona (September 16-18, 1996)
7. Expert Witness Testimony, 9th International Symposium on DNA Identification, Orlando, Florida (October 5, 1998)
8. Population Genetics and Statistics Workshop, Miami, Florida; February 23-25, 1999
9. CODIS Training, SAIC/FBI, Vienna, Virginia, June 12-15, 2000
10. FBI DNA Audit Course, Marshall University, Morgantown, VA May 13-15, 2003

PEER-REVIEWED PUBLISHED JOURNAL ARTICLES

1. Crouse C.A. and Pauley RJ. " Molecular cloning and sequencing of the mtv-1 LTR: evidence for a LTR sequence alteration" , Virus Research 1989. Feb.12(2)p.123- 137.
2. Crouse C.A., Pflugfelder SC, Cleary TJ, Demick S, and Atherton SA. " Detection of Epstein-Barr viral genomes in normal human lacrimal glands", J. Clin. Micro. 1990. 28:1026- 1032.
3. Crouse C.A., Pflugfelder SC, Periera I, Cleary TJ, Rabinowitz S. and Atherton SA. " Detection of herpes viral genomes in normal and diseased corneal epithelium" , Current Eye Research . 1990. 9:569-581
4. Pflugfelder S.C., Crouse CA, Periera I, and Atherton SA. " Amplification of Epstein-Barr viral genomic sequences in blood cells, lacrimal glands and tears from primary Sjogren's syndrome patients" , Ophthalmol. 1990. 97:976-984.
5. Crouse CA, Pflugfelder S.C., Periera I, and Atherton SA. " EBV genomic sequences amplified in blood cells, lacrimal glands and tears from primary Sjogren's syndrome patients" , 1990. ICSU Short Reports 10:71.
6. Pflugfelder, S.C., Huang H., and Crouse C.A. " EpsteinBarr virus keratitis after a chemical facial peel. Amer. J. Ophthalmol. 1990. 110:571-573.
7. McLeish W, Pflugfelder SC, Crouse CA, Miller D, Rabinowitz S, Hill EL, and Atherton SA. " Successful interferon-alpha 2 treatment of HSV-1 keratitis resistant to antiviral therapy" , Ophthalmology 1990.109:93-9
8. Fox, G., C.A. Crouse, E. L. Chuang, S.C. Pflugfelder, T.J. Cleary, S.J. Nelson, S.S. Atherton " Detection of herpesvirus DNA in vitreous and aqueous specimens by the polymerase chain reaction" , Archives of Ophthalmology 1991. 109:266-271
9. Levine, J., Pflugfelder, S., Yen, M., Crouse, C., Atherton, S. " Detection of the complement (CD21)/Epstein-Barr Virus receptor in human lacrimal gland and ocular surface epithelia" , Regional Immunology 1991. 3:164- 170.
10. Cray C., C.A. Crouse , S.S. Atherton and R. J. Levy " Effect of Concurrent Graft-Versus host reaction on tissue distribution and infectious titer of murine cytomegalovirus" , Archives of Virology 1991. 121:101-110
11. Yen, M., Pflugfelder S.P., Crouse C.A., and Atherton S.A. " Characterization of the ocular surface and lacrimal gland for epithelial cytokeratin molecules", Invest. Ophthalmol. Vis.Sci., 1992. 33:3235-3241.
12. Pflugfelder S.C., Crouse C.A., Monroy D., Yen M., Rowe M., Atherton S.S. " Epstein-Barr virus and the lacrimal gland pathology of Sjogren's Syndrome" , American Journal of Pathology 1992. 143:49-64.
13. Crouse C.A., Vincek V., Caraballo B. " Analysis and interpretation of the " 1.1 Weak-Signal" observed during the HLA DQ α AmpliType procedure" Journal of Forensic Science 1994, 39:41-51
14. Crouse C.A., Jeffrey Ban and D'Alessio J.K. " Extraction of DNA from forensic-type sexual assault specimens using simple, rapid sonication procedures" , Biotechniques 1993, 15: 636-648
15. Crouse C.A. , Feuer, W.J., Nippes D.C., Hutto, S.C. Barnes, K.S., Livingston S., Ginsberg L., and Glidewell, D.E., " Analysis of HLA DQ α Allele and Genotype frequencies in populations from Florida" , Journal of Forensic Science, 1994, Vol.39 731-742.
16. Crouse C.A. and Vincek V. Identification of ABO alleles on forensic-type specimens using Rapid-ABO genotyping. BioTechniques, 1995, 278-283

17. Crouse C.A. and Schumm, J. W. Investigation of specie specificity using nine PCR-based STR systems. Journal of Forensic Science, 1995 Vol40, 952-956
18. Micka K., Sprecher C.J., Lins A., Comey C., Koons B., Crouse C.A., Endean D., Pirelli, K., Lee S., Duda N., Ma M. and Schumm J.W. Validation of Multiplex Polymorphic STR Amplification sets developed for personal identification. Journal of Forensic Science, 1996 582-590
19. Crouse C.A., Nippes D.C. and Ritzline E.L. "Confirmation of PM Typing Protocols for Consistent and Reliable Results" Journal of Forensic Science, 1996, 493-496
20. Crouse C.A., Amriott, B.A, Gibson, S.D., Masibay, A. "Analysis and Interpretation of STR Microvariant and Three-banded Patterns Using Multiple Allele Detection Systems". Journal of Forensic Science, Jan 1999, 87-94
21. Micka, K.A., Amriott, E.A., Hockenberry, T.L., Sprecher, C.J., Lins, A.M., Rabbach, D.R., Taylor, J.A., Bacher, J.W., Glidewell, D.E., Gibson, S.D., Crouse, C.A., and Schumm, J.W. "TWGDAM Validation of a Nine-Locus and a Four Locus Fluorescent STR Multiplex System", Journal of Forensic Science, Nov. 1999, 1243-1257
22. Eleni N. Levedakou et.al. "Characterization and Validation of PowerPlex2.1 , a Nine-Locus Short Tandem Repeat (STR) Multiplex system and Penta D Monoplex, submitted, Journal of Forensic Science
23. Eleni N. Levedakou , D.A. Freeman, M.J. Budzynski, B.E. Early, B.A. Amriott, K.C. McElfresh, J.W. Schumm, S.R. Ulery, D. Silva, A.J. Townly, A. Pollard, J. Lewis, J. Gombos, J. Sailus, C.A. Crouse and M. Nelson. "Allele frequencies for fourteen STR Loci of the PowerPlex1.1 and 2.1 Multiplex Systems and Penta D Locus in Caucasians, African-Americans, Hispanics and Other Populations of the United States of America." Accepted, Journal of Forensic Science, January, 2001.
24. Crouse C. A. "Implementation of Forensic DNA Analysis on Casework Evidence at the Palm Beach County Sheriff's Office Crime Laboratory: Historical Perspective" Croatian Medical Journal June, Vol 42, 247-25
25. Silva, D. A., Crouse, C. A., Chakraborty, R., Goes, A. C., and Carvalho, E. F. (1-28-2004) Statistical analyses of 14 short tandem repeat loci in Brazilian populations from Rio de Janeiro and Mato Grosso do Sul states for forensic and identity testing purposes. *Forensic Sci.Int* . 139(2-3): 173-176
26. Susan A. Greenspoon, Ph.D., Jeffrey D. Ban, M.S., Lourdes Pablo, M.S., Cecelia A. Crouse, Ph.D, Frank G. Kist, B.S., Chris S. Tomsey, M.S., Alex L. Glessner, B.S, Lisa R. Mihalacki, B.S., Terry Long, M.S., Bruce J. Heidebrecht, B.S., David A. Freeman, Ph.D., Carl Soberalski, M.S., Nathan Bruesehoff, B.S., Ashima S. Amin, M.S., Elizabeth K. Douglas, M.S., and James W. Schumm, Ph.D, "Validation and Implementation of the PowerPlex® 16 BIO System STR Multiplex for Forensic Casework." JFS January , 2004, Vol49 No 1 pg 71-80
27. Cecelia Crouse, Stephanie Yeung, Susan Greenspoon, Amy McGuckian, Julie Sikorsky , Jeff Ban and Richard Mathies, "Improving the Efficiency of a Small Forensic DNA Laboratory: Evidence Tracking, Robotic Assays and Future Microcapillary Array Devices" (Croatian Medical Journal, August, Vol46, No.4, 2005)
28. Stephanie H. I. yeung, Susan A. Greenspoon, Amy McGuckian, Cecelia Crouse, Charles Emrich, Jeffrey Ban, Richard Mathies, "Rapid and High throughput Forensic Short tandem repeat Typing using a 96-lane Microfabricated Capillary Array Electrophoresis Microdevice" JFS, July 2006, Vol51, No4, pg 740-747

PUBLISHED ABSTRACTS:

1. Crouse C.A. and Pauley R.J. International Breast Cancer Association, 1987
2. Crouse C.A. and Pauley R.J. American Association for Cancer Research. 1988.
3. Crouse C.A., Pflugfelder S.C., Demick SE, and Atherton SS J. Cell Biochem. Suppl 13E, 1989.

4. Vann V.R., Crouse C.A., Culbertson W.W. and Atherton S.S. Invest. Ophthalmol. (Suppl.) Vol 30:215, 1989.
5. Pereira I.C., Crouse C.A., Pflugfelder S.C., Demick, S.E. and Atherton S.S. Pan-American Congress of Ophthalmology, September, 1989
6. Crouse, C.A., S.C. Pflugfelder, I. Periera, S. Rabinowitz, S. Atherton Invest. Ophthalmol. (Suppl.)Vol. 31:221, 1990
7. Fox, G.M., C.A. Crouse, S.S. Atherton, and S. C. Pflugfelder Invest. Ophthalmol. (Suppl.) Vol. 31: 366,1990
8. Bloti, B.A., S.C. Pflugfelder, C.A. Crouse, J.Levine, S.S. Atherton. Invest. Ophthalmol. (Suppl.) Vol. 31: 62, 1990
9. Pflugfelder, S.C., C.A. Crouse, I. Pereira, and S.S.Atherton Invest. Ophthalmol.
10. Crouse, C.A. , G.Fox, S. Pflugfelder, E. Chuang and S.S. Atherton. CEI: July,1990.
11. Crouse, C.A. Pflugfelder S.C. Yen M., and Atherton S.A. Invest. Ophthalmol. (Suppl.) 32 :807, 1991
12. Crouse C.A., Pflugfelder S.C, Atherton, S.A. Clin Exper. Rheumatology. Vol.9:336, 1991
13. Pflugfelder S.C., Huang A.J.W., Crouse C.A., Tseng S.C.G. Clin. Exper. Rheumatology 9:314, 1991
14. Crouse, C.A. Pflugfelder, S.J., Monroy, D, Rowe M.. and Atherton, S.A Invest. Ophthalmol. (Suppl.) 33:846; 1992.
15. de Carvalho F.M., Pflugfelder, S.C., Crouse C.A., Monroy D., and Atherton S.S. Invest. Ophthalmol. (Suppl.) 33:1024, 1992.
16. Pflugfelder S.C., Crouse C.A. and Atherton S.S. International Conference on Herpetic Eye Diseases. New Orleans, Louisiana.
17. Pflugfelder S.C., Crouse C.A. and Atherton S.S. Invest. Ophthalmol. (Suppl.) 34:1379 1993.
18. Crouse C.A., Vincek V., Caraballo B.K. Amer. Acad. of Forensic Science and The Forensic Science Foundation Inc. pp.78, 1993.
19. Crouse C.A., Feuer W.J., S.C. Hutto and Glidewell D.E. The Second International Symposium on Forensic Aspects of DNA Analysis, accepted March,1993.
20. Wright W.R., Crouse C.A., Lewis S., Amer. Acad. of Forensic Science and The Forensic Science Foundation Inc. pp.82, 1994.
21. Crouse C.A., Ban J.D. and D'Alessio J.K. Amer. Acad. of Forensic Science and The Forensic Science Foundation Inc. pp.74, 1994.
22. Crouse,C.A. and Vincek, V., The Fifth International Symposium on Human Identification pg 166, 1994
23. Schumm J.W., Micka K., Sprecher C.J., Lins A., Comey C., Coons B., Crouse C.A., Endean D., Zold K., Lee S., Duda N., and Ma M. The Fifth International Symposium on Human Identification page 49, 1995
24. Glidewell,D., Crouse, C.A., and Caraballo, B.K.. American Academy of Forensic Science, 1995
25. Crouse, C.A. , Badger, C. , Yuen, W. Sixth International Symposium on DNA Identification, page 167, 1995)
26. Crouse, C.A., Glidewell, D. E., Rogers, S. and Evans, S. Sixth International Symposium on DNA Identification, page 168, 1995)
27. Cotton, R., Chakraborty, R., Crouse. C., Forman, L., Kriss, J. , Ranadive, A., Saipes, D., Weber, M., Weir, B., and Word, C. American Academy of Forensic Science 1996
28. Crouse, C.A. and Glidewell, D.E. The Seventh International Symposium on Human Identification page 97, 1996
29. Crouse, C.A., Glidewell, D.E., Gibson, S.D., Amiott, B.A., Promega/BioBras Latin American Symposium on Human Identification, August, 1997

30. Crouse, C.A., Rogers, S., Amriott, B.A., Gibson, S.D., Masibay, A. Eighth International Symposium on DNA Identification, September 1997
31. Gibson, S.D., Amriott, E.A., Crouse, C.A., and Weir, B. "Validation of the PowerPlex STR System and DQA1, PM and PowerPlex Genotype frequencies in the Palm Beach Databases" 1998, American Academy of Forensic Science,
32. Hockenberry, T.L, Sailus, J, Crouse C.A.: Ninth International Symposium on DNA Identification, October 1999
33. Silva, D.A., Chakraborty, R., Stivers, D., Zhong, Y, Carvalho, E.F, Crouse C.A. Tenth International Symposium on DNA Identification, October, 1999.
34. Crouse, C.A., M.Kline, R.H. Curtis "Documenting Real-World Pipette Performance" Accepted, American Academy of Forensic Science 2000
35. Paradela, E.R., Glidewell, D.E. and Crouse C.A. Feasibility of Conducting PCR-based DNA Analysis at the Crime Scenes" Accepted, International Symposium on DNA Identification, October, 2000.
36. Konotop, F. and Crouse C.A. Comparison and Analysis of Polyacrylamide gel matrixes for the detection of Fluorescent Megaplex STR alleles. Accepted, International Symposium on DNA Identification, October, 2000.
37. Perlin, M.W., D. Coffman, C.A. Crouse, F. Konotop, J.D. Ban. Automated STR Data Analysis: Validation Studies Twelfth International Symposium on DNA Identification, October, 2001
38. Conover, J.L. and Crouse C.A. Fourteenth International Symposium on DNA Identification, October 2003
39. Yeung, S.H.I., S. Greenspoon, J. Ban, A.B.McGuckian, C.A. Crouse, R.A. Mathies, "Microfabricated Capillary Array Electrophoresis Devices for Rapid and high through-Put STR Typing" Fifteenth International Symposium on DNA Identification, September, 2004
40. Steve Lee, Xavier Aranda, Dennis Yip, Arther Eisenberg, Cecelia A. Crouse, Amy McGuckian et al Analysis of PowerPlex Y Using the FMBIO III Plus; AAFS, February 21-25, 2005

BOOK CHAPTERS

- 1 Pflugfelder S.C. Crouse C.A. and Atherton S.S. 1993. Ophthalmic manifestations of Epstein-Barr virus infection., *Int.Ophthalmol. Clin.* 33:95-101.
2. Atherton S.S, Pflugfelder S.C. and Crouse C.A. EBV and the eye: Basic considerations with respect to ocular diseases. In *Infectious Diseases of the Eye*, Bialasiewicz AA and Schaal KP (editors). Buren Acolus pp332-341, 1994
3. Pflugfelder S.C. Crouse C.A. and Atherton S.S. Epstein-Barr virus and the lacrimal gland pathology of Sjogren's syndrome. *Adv Exp Med Biol* 1994; 350-641-643

EDITORIAL RESPONSIBILITIES

1. Journal of Forensic Science, Editorial Review Board 1995-present
2. Forensic Communications, Guest Reviewer
3. BioTechniques, Guest Reviewer 1993-present

INVITED OUTSIDE LECTURESHIPS

1. Florida DNA Training Session II: PCR Applications, Orlando, Fl. May 25-27, 1993
HLA DQ α Validation Studies for Implementation and HLA DQ α Population Database
2. Florida DNA Training Session III: Advanced PCR Applications, Co-instructor
Orlando, Fl. May 22-24, 1995

3. Florida Prosecuting Attorney's Association, Faculty member, "A Day of DNA", Winter Park, Florida, May 10, 1996.
4. National Association of Government Attorneys and Capital Litigators, Future DNA Technology, Orlando, Florida, August 9, 1996
5. American Academy of Forensic Science, "Advanced DNA Applications: Automation and Application", New York, NY, February 18, 1997
6. Florida State Division of the International Association For Identification, "From the Crime Scene to the Courtroom: The Fidelity of DNA". April 15, 1997
7. Palm Beach County Criminal Defense Attorneys Association, "DNA in the Crime Lab", July 15, 1997
8. Promega/BioBras Latin American Symposium on Human Identification, Practical Application of STRs to Casework and Acceptance in the Courtroom, August 11-12, 1997 Brasilia, Brazil
11. First Advanced STR MegaPlex Technology Workshop, co-instructor, Hilton Head, SC, January 11-13, 1998
12. Second Annual Advanced Fluorescent STR MegaPlex Technology Workshop, co-instructor National Forensic Science Technology Center, Inc. Hilton Head, SC (March 21-24, 1999)
13. International Symposium on DNA Identification in Rio de Janeiro, Rio de Janeiro, Brazil Providing Quality Forensic DNA profiling Results, June 6-7, 1999
14. Second Latin American Symposium on Human DNA Identification, Belo Horizonte Brazil, Implementation of DNA Profiling in a Forensic Laboratory June 8-10, 1999
15. Metrology Workshop and Symposium, Charlotte, NC; Utilization of NIST Standards For The Validation Of Forensic DNA Markers July 11-16, 1999
16. Florida DNA Training Session IV: DNA 2000, Co-instructor , co-organizer, Miami, Fl. May 23-26, 2000, "STR Validation: Scientific Admissibility"
17. Third Annual Advanced STR MegaPlex Technology Workshop, co-organizer-co-instructor, Hilton Head, SC, March 12-17, 2000
18. Eleventh International Symposium on DNA Identification, , Co-instructor "Casework Guidelines and Complex Mixture Workshop", October 9, 2000.
19. Fourth Annual Advanced STR MegaPlex Technology Workshop, co-organizer-co-instructor, Hilton Head, SC, March 11-16, 2001
20. Second European-American Intensive Course in Clinical and Forensic Genetics, Dubrovnik, Croatia, "Implementation of Forensic DNA Analysis on casework Evidence at the Palm Beach County Sheriff's Office Crime Laboratory: Historical Perspective" September, 2001
21. Fifth Annual STR MegaPlex Advanced Research and Training Workshop (SMART2002), Hitachi FMBIO Users Group meeting, March, 2002
22. Science and The Law , Miami , Florida , "Is DNA The Magic Bullet" Panel. October, 2003
23. Sixth Annual STR MegaPlex Advanced Research and Training Workshop (SMART2003), Hitachi FMBIO Users Group meeting, March 22-27, 2003
24. Illinois Court: Capital Cases-Evidence and Other Issues Workshop, "Forensic DNA Analysis", May 20-21, 2003 Chicago Illinois and September 18-19, 2003 Springfield Illinois
25. Seventh Annual STR MegaPlex Advanced Research and Training Workshop (SMART2003), Hitachi FMBIO Users Group meeting, March 28-April 1, 2004
26. Third Annual Advanced DNA Technology Workshop, Duck Key Florida, May 10-13, 2005
27. Fourth Annual Advanced DNA Technology Workshop, Duck Key Florida, May 23-26, 2005
28. National Institute of Justice Annual Conference on Criminal Justice Research and Evaluation, Institute of Law and Justice, *DNA and Minor Crimes* July 18-19, 2005
29. Fourth European-American School in Forensic Genetics and Mayo Clinic Course in Advanced Molecular and Cellular Medicine Dubrovnik, Croatia, Improving efficiency of a small forensic DNA

laboratory: validation of robotic assays and evaluation of a microcapillary array device, September 5 - 9, 2005;

30. 5th Annual Advanced DNA Technology Workshop, Expert Systems, May 30, 2006
31. 33rd Annual Florida Medical Examiners Educational Conference: The Unidentified Human Remains Project: Know Bones About It, August 17, 2006

PROFESSIONAL COMMITTEES

1. American Prosecutors Research Institute, member, DNA Faculty 1996-present
Instructor for "DNA: Witness to the Truth".
2. Forensic Science Summit: Roadmap to the Year 2000 NIST, Gaithersburg MD March 24- 25, 1997
4. National Commission for the Future of DNA Evidence, Lab Funding Working Group, commissioned by Attorney General Janet Reno, group reporter January-1998 to 2001
* The Retention and Subsequent Use of Suspect, Elimination, and Victim DNA Samples or Records; Cecelia A. Crouse and David Kay, October, 2000
5. Florida Crime Laboratory Council: STR's: The Next Generation, May 20-23, 1998
6. National Institute of Justice Grant Review Committee, February 17, 1999 to present
7. Attorney General's Initiative on DNA Laboratory Analysis Backlog (AGID-LAB), commissioned by Attorney General John Ashcroft, workgroup member, January 2002
8. ChoicePoint DNA Advisory Board for the National Rape Evidence Project. March, 2002-current
9. Attorney Generals Initiative on Laboratory Backlog Reduction (AGID-LAB), AG John Ashcroft's DNA working group, March 2002-2003
10. DNA Summit, participant, International Chiefs of Police/NIJ, Washington D.C April 7-8, 2003
11. SWGDM-Scientific Working Group on DNA Analysis and Methods, FBI DNA, January 1, 2003 to present; Chair: Expert Systems Working Group
12. American Academy of Forensic Sciences 56th Annual Meeting; Chair for the Multidisciplinary Symposium: *The Anatomy of a Coerced Confession: Can Post-Conviction Relief Repair the Judicial System*, February 17, 2004
13. National Institute of Justice DNA Grant Technical Working Group, April 2005-present
14. Armed Forces DNA Identification Laboratory Advisory Board, 2006-present

STATEMENT OF QUALIFICATIONS

Name of Lab: Palm Beach Sheriff's Office
Date: October 31, 2006

Name: Celynda M. Farrell Title: Forensic Scientist

Discipline(s): Indicate all areas in which you do casework or support casework functions.

- | | | |
|--|--|--|
| <input type="checkbox"/> Controlled Substances | <input type="checkbox"/> Toxicology | <input checked="" type="checkbox"/> Serology/DNA |
| <input type="checkbox"/> Firearms/Tool marks | <input type="checkbox"/> Latent Prints | <input type="checkbox"/> Clerical |
| <input type="checkbox"/> Crime Scene | <input type="checkbox"/> Photo | <input type="checkbox"/> Evidence |
| <input type="checkbox"/> Management | <input type="checkbox"/> Other _____ | |

Education: List all higher academic institutions attended.

Institution	Dates Attended	Major	Degree Completed
Florida Atlantic Univeristy	Aug 2005 – Dec 2005	N/A	N/A
Metropolitan State College of Denver	Aug 2002 – Aug 2005	Chemistry	B.S.
University of Colorado at Denver	Aug 1998 – Dec 2000	Chemistry	N/A

Other Training: List continuing education, workshops, in-service and other formal training received and dates.

1. **Palm Beach County Sheriff's Office Serology Training Program:** West Palm Beach, FL; Nov. 2006 – Dec. 2006.
2. **Palm Beach County Sheriff's Office Evidence Handling Training Program:** West Palm Beach FL; Nov. 2006 – Dec. 2006.
3. **Internship with the Palm Beach Sheriff's Office:** 450 hrs.; May 2005 to Sept. 2005; DNA/Serology section
4. **American Academy of Forensic Sciences 57th Annual Meeting:** Attendee, February 22nd-25th, 2005. New Orleans, Louisiana.

Courtroom experience: List the discipline(s) in which you have qualified to testify as an expert witness and indicate over what period of time and approximately how many times you have testified in each.

N/A

Professional Affiliations: List any professional organization of which you are or have been a member. Indicate any offices or other positions held and the date(s) of these activities.

N/A

Name: Celynda M. Farrell

Employment History: List all scientific or technical positions held, particularly those related for forensic science. List current position first. Give a brief summary of principal duties in each position.

(1) Job Title: Forensic Scientist Employer: Palm Beach County Sheriff's Office
Principal Duties: Performs visual as well as presumptive and confirmatory analytical tests where appropriate to identify biological stains such as blood and semen from casework evidence; preparing reports of findings for use by the criminal justice system and testifying in court as an expert witness. Also responsible for participating in the research and validation of new technologies implemented on case work evidence and present scientific data at national and international meetings.

(2) Job Title: Scientific Contractor Employer: Palm Beach County Sheriff's Office
Principal Duties: Assisted in the validation of instruments, technologies, and chemistries; calibrated instruments; prepared reagents; assisted analysts with current and cold casework; general lab knowledge.

(3) Job Title: Forensic Science Intern Employer: Palm Beach County Sheriff's Office
Principal Duties: Assisted in the development current evidence storage system; researched, repackaged, and organized 30 years worth of DNA evidence; assisted with the electronic documentation of over 2000 cases; general lab knowledge

Other Qualifications: List below any scientific publication and/or presentation you have authored or co-authored, research in which you are or have been involved, academic, or other teaching positions you have held, and any other information which you believe relevant to your qualification as a forensic scientist or forensic scientist support personnel. Use additional sheets if necessary.

N/A

STATEMENT OF QUALIFICATIONS

Name of Lab: Palm Beach County Sheriff's Office
 Date: August 2006

Name: Dawn M. Hicks Title: Sr. Forensic Scientist

Discipline(s): Indicate all areas in which you do casework.

- | | | |
|--|--|--|
| <input type="checkbox"/> Controlled Substances | <input type="checkbox"/> Toxicology | <input checked="" type="checkbox"/> Serology/DNA |
| <input type="checkbox"/> Firearms/Toolmarks | <input type="checkbox"/> Latent Prints | <input type="checkbox"/> Documents |
| <input type="checkbox"/> Trace Evidence | <input type="checkbox"/> Other _____ | |

Education: List all higher academic institutions attended.

Institution	Dates Attended	Major	Degree Completed
<u>Ohio Wesleyan University</u>	<u>8/96-5/00</u>	<u>Genetics</u>	<u>B.A.</u>
<u>University of Alabama at Birmingham</u>	<u>6/00-5/02</u>	<u>Forensic Science</u>	<u>M.S.F.S</u>

Other Training: List continuing education, workshops, in-service and other formal training received.

<u>Attended the 12th Annual International Symposium on Human Identification</u>	<u>October 9-12, 2001</u>
<u>Attended the 54th Annual American Academy of Forensic Sciences</u>	<u>February 11-16, 2002</u>
<u>Attended the 8th Annual CODIS User's Conference</u>	<u>November 5-8, 2002</u>
<u>Palm Beach County Sheriff's Office Serology Training Program – West Palm Beach, FL</u>	<u>May 2002-July 2002</u>
<u>Palm Beach County Sheriff's Office Forensic DNA Analysis and Statistics Training Program - West Palm Beach, FL</u>	<u>July, 2002 – April, 2003</u>
<u>Attended the 55th Annual American Academy of Forensic Sciences</u>	<u>February 17-21, 2003</u>
<u>Sixth Annual MegaPlex and Research Technology Workshop – Virginia Beach, VA</u>	<u>March 23-27, 2003</u>
<u>Courtroom Testimony Techniques “Success Instead of Survival” - Miami, FL</u>	<u>September 29-30, 2003</u>
<u>Advanced DNA Technology Workshop – San Diego, CA</u>	<u>March 8-11, 2004</u>
<u>7th Annual STR MegaPlex And Research Technology Workshop – Virginia Beach, VA</u>	<u>March 28-April 1, 2004</u>
<u>Combined DNA Index System (CODIS) Training, Washington DC</u>	<u>December 6-10, 2004</u>
<u>2nd Annual Advanced DNA Technology Workshop – San Diego, CA</u>	<u>April 25-28, 2005</u>
<u>Advanced DNA Technology Workshop – Duck Key, FL</u>	<u>May 23-25, 2005</u>
<u>6th Annual DNA Grantees Workshop – Washington D.C.</u>	<u>June 27-29, 2005</u>
<u>5th Annual Advanced DNA Technology Workshop – Captiva Island, FL</u>	<u>May 30-June 2, 2006</u>
<u>DNA Evidence Seminar – DNA Security, Burlington, NC</u>	<u>Dec 7-8, 2006</u>

Courtroom experience: List the discipline(s) in which you have qualified to testify as an expert witness and indicate over what period of time and approximately how many times you have testified in each.

DNA Analysis and Serology (27 times from 7/03 to 8/06) - includes grand jury testimony, trials, Frye hearing, serology, DNA

Professional Affiliations: List any professional organization of which you are or have been a member. Indicate any offices or other positions held and the date(s) of these activities.

American Academy of Forensic Scientists- 10/01 – current

Associate Member

Name: Dawn M. Hicks

Employment History: List all scientific or technical positions held, particularly those related for forensic science. List current position first. Give a brief summary of principal duties in each position.

(1) Job Title: Senior Forensic Scientist Employer: Palm Beach County Sheriff's Office

Principal Duties: Preserve evidence, identify biological stains on casework evidence, perform DNA analysis, perform statistical analysis, testify in court as to findings. Assistant CODIS Administrator.

(2) Job Title: DNA Database Technician Employer: Alabama Department of Forensic Sciences

Principal Duties: Performed mutiplex and monoplex STR analysis of convicted offender biological samples utilizing FTA extractions, PCR amplification, polyacrylamide gel electrophoresis, Starcall computer analysis of FMBIO images, and visual interpretation of electrophoretic results. Also processed incoming samples involving data entry and specimen preparation. Maintained laboratory quality control standards involving instrumental calibrations, preparation of reagents, and laboratory cleanliness.

(3) Job Title: Bio-safety Student Assistantship Employer: Ohio Wesleyan University

Principal Duties: In charge of managing hazardous materials from student health department and laboratory courses, addressing bio-safety concerns campus-wide, researching current bio-safety issues, and organizing relevant information into the campus bio-safety newsletter.

(4) Job Title: _____ Employer: _____

Principal Duties:

Other Qualifications: List below any scientific publication and/or presentation you have authored or co-authored, research in which you are or have been involved, academic, or other teaching positions you have held, and any other information which you believe relevant to your qualification as a forensic scientist. Use additional sheets if necessary.

Hicks, Dawn M., Combs, Malinda R., ed. Dr. Fred P. Smith. History of Amphetamines: Original Synthesis and Legal Status Through Time. *Handbook of Forensic Drug Analysis*. Academic Press Dec 2004.

Hicks, Dawn M., *The Role of Noggin in Salamander Limb Regeneration*. Denison Journal of Biological Science. Volume 34, No.1.

STATEMENT OF QUALIFICATIONS

Name of Lab: Palm Beach County Sheriff's Office
Date: January 2007

Name: Misti G. Lynn Title: Laboratory Analyst

Discipline(s): Indicate all areas in which you do casework.

- Controlled Substances
- Firearms/Toolmarks
- Trace Evidence
- Administrative/Clerical
- Toxicology
- Latent Prints
- Crime Scene
- _____
- Serology/DNA
- Documents
- Evidence

Education: List all higher academic institutions attended.

Institution	Dates Attended	Major	Degree Completed
<u>University of Memphis</u>	<u>8/92-5/97</u>	<u>Psychology</u>	<u>B.S.</u>
<u>University of Memphis</u>	<u>8/92-5/97</u>	<u>Anthropology</u>	<u>B.A.</u>
<u>University of Memphis</u>	<u>8/92-5/97</u>	<u>Biology</u>	<u>Minor</u>
<u>Florida Atlantic University</u>	<u>8/03-present</u>	<u>Biological Anthropology</u>	<u>In progress</u>

Other Training: List continuing education, workshops, in-service and other formal training received.

Forensic Death Investigation I 1998, Forensic Death Investigation II 1998
Southern Biological Association Conference Workshop 1994
Polyacrylamide Gel Training, Evidence Handling and Serology

Courtroom experience: List the discipline(s) in which you have qualified to testify as an expert witness and indicate over what period of time and approximately how many times you have testified in each.

Evidence Handling and Serology 12/2006

Professional Affiliations: List any professional organization of which you are or have been a member. Indicate any offices or other positions held and the date(s) of these activities.

Name: Misti G. Lynn _____

Employment History: List all scientific or technical positions held, particularly those related for forensic science. List current position first. Give a brief summary of principal duties in each position.

(1) Job Title: Laboratory Analyst Employer: PBSO

Principal Duties: Evidence Handling and Serological analysis of evidence, Evidence Coordinator for Forensic Biology Unit, receive requests for DNA and Serological analysis, research cases, liaison for detectives and attorneys to Forensic Biology Unit, Serology/DNA Quality Assurance and Quality Control Assistant to help maintain records within ASCLDLAB Accreditation guidelines, participate in research projects and validation conducted in the laboratory and reagent preparation. Secondary Observer (SO) for Lab analysis. Make polyacrylamide gels for analysts.

(2) Job Title: Scientific Aide Employer: PBSO

Principal Duties: Evidence Intake Coordinator for Serology/DNA lab, receive requests for DNA and Serological analysis, research cases, liaison for detectives and attorneys to DNA Lab, create and maintain DNA evidence tracking database, Serology/DNA Quality Assurance and Quality Control Assistant to help maintain records within ASCLDLAB Accreditation guidelines, assist in research projects conducted in the laboratory and reagent preparation. Secondary Observer (SO) for Lab analysis. Present Evidence Submission training for detectives.

(3) Job Title: Technical Intern Employer: PBSO

Principal Duties: Provide general support within the Technical Services Bureau including the Crime Lab and Crime Scene Unit. Duties and projects include creation of tracking logs in Excel and word formats. reformatting all SOP's, researching property receipts and chain of custody, researching prior cases and CODIS cases, helped with studies done in the lab, acted as a secondary observer, and aided forensic analysts with the screening of evidence.

(4) Job Title: Research Assistant Employer: Daniel McBride, Assistant Crime Lab Director

Principal Duties: Research ITERATE international terrorist data and design EXCEL program to facilitate candidate's research goals.

(5) Job Title: Hazardous Materials Specialist Employer: FEDEX

Principal Duties: I had to ensure proper and safe transportation of Dangerous Goods according to all FAA, DOT, and FEDEX guidelines.

(6) Job Title: Laboratory Assistant Employer: Neuropsychology Lab University of Memphis

Principal Duties: Assisted with animals' weight, diet, and general care as well as maze manipulation for Schizophrenia study involving laser induced brain lesions in lab rats to produce neurological effects of schizophrenic behavior based on lesion location in order to find alternative areas of brain stimulation to help patients with this affliction.

(7) Job Title: Laboratory Assistant Employer: Organismal Biology Labs, University of Memphis

Principal Duties: I was tasked with organizing, cataloging, and maintaining all microscopic slide specimens used in the department for organismal biology. Set up for each week's labs for Genetics, General Biology I, and General Biology II.

Other Qualifications: List below any scientific publication and/or presentation you have authored or co-authored, research in which you are or have been involved, academic, or other teaching positions you have held, and any other information which you believe relevant to your qualification as a forensic scientist. Use additional sheets if necessary.

Job Title: Teaching Assistant Employer: Florida Atlantic University, Anthropology Department

Principal Duties: Instruct students, review and revise written assignments, design lesson plans and activities to facilitate the learning process, evaluate and grade student progress, aid professor in other needed duties.

Job Title: Instructor Employer: Graves Museum, Dania Beach, Florida

Principal Duties: In charge of a varied program of adult education including classes on Forensic Science and Crime Scene Investigation, Life History of Human Ancestors, History of Ancient Central and South American Civilizations, Native American Religion and Mythology, Life History of Living Apes, Human Variation, Environmental Survival and Behavior.

PREVIOUS RESEARCH:

Environmental Investigation for Human Survival

Saving the Future: Conservation, Preservation, and Reparation of the Natural World

Chiefs, Priests, Gods, and Power: An Analysis of Captain Cook and the Hawaiians

Psychological Evaluation of Captain Cook in Hawaiian Cultural Mythology

Reproduction, Insecurity, and Social Status

Functional Mystification in Hawaii

Theories of Function and Structure in the Captain Cook Issue

Changing History, Changing Behavior

Ritual Relations

Bioarcheological Analysis of Osteological Changes in Native Populations of the Southeastern and Southwestern United States after the Intensification of Maize Agriculture

Synthesis in Anthropology: From a Generalist to a Specialist Point of View

All for One and One for All: Individual versus Community Needs

Primitive Logic and the Science of the Concrete

From Salem to Sunnydale: The Modern Evolution of European Witchcraft

Neanderthals and Modern Humans: Genetics and the Phylogenetic Debate

Evolution in a Hominin Lineage: The Appearance of the "Classic" Neanderthal Morphology

-co-authored with Peter Ferdinando (in press)

Ethnopharmacology

Thunderbird Permutations in Eastern and Western Native American Mythology

Cherokee History

Introduction to the Ancient Maya

Aztec Life

Deciphering Mayan Hieroglyphics

Forensic Science and Crime Scene Investigation

History of Ancient Central and South American Civilizations

Native American Religion and Mythology

Life History of Living Apes

Human Variation

Environmental Behavior and Survival

PRESENTATIONS:

Ethnopharmacology

Introduction to the Ancient Maya
Unidentified Human Remains Identification Project
DNA Evidence Coordination and Prioritization
Bioarchaeological Analysis of Osteological Changes in Native Populations of the Southeastern and
Southwestern United after the Intensification of Maize Agriculture
Neanderthals and Modern Humans; Genetics and the Phylogenetic Debate
Forensic Science and Crime Scene Investigation
History of Human Ancestry
History of Ancient Central and South American Civilizations
Native American Religion and Mythology
Life History of Living Apes
Human Variation
Environmental Behavior and Survival

Paige McCann
3228 Gun Club Road
West Palm Beach
FL. 33406
561-688-4059
mccannp@pbso.org

PROFILE

Professionally qualified Homicide Detective with more than 9 years experience investigating the cause and circumstances of natural deaths, unattended deaths, suicides and homicides. For the last 2 ½ years, I have worked primarily on unresolved homicides. I have reviewed over 30 "cold cases" to determine if new forensic techniques and technologies could be applied.

WORK HISTORY

June 2002 – present **Detective II (Career Deputy II)**
Palm Beach County Sheriff's Office
West Palm Beach, FL 33406

Responsibilities:

* Manage the following databases:

- o Homeless Database
- o Prostitute Database
- o The Person Locator Database

* Prepare cases to present to State Attorney's Office

* Familiar with CODIS DNA database

* Skilled with proper investigation and collection of crime scene evidence

Achievements:

* Organized a tracking system for cold case homicide files

* Assisted DOE Network in locating unidentified persons

* Attended numerous homicide and advanced homicide courses

Mar 1995–June 2002 **Detective II (Career Deputy I)**
Palm Beach County Sheriff's Office
West Palm Beach, FL 33406

Responsibilities:

* Investigate the homicides, cold case homicides, suicides, accidental deaths, missing persons, unidentified remains, and crimes against persons.

* Experienced in testifying in criminal proceedings, grand jury, and depositions

EDUCATION

2000-2002 **Lynn University**
Boca Raton, FL
GPA: 4.0
Masters in Science
Criminal Justice Administration

1989-1991 **Florida State University**
Tallahassee, FL
GPA: 3.4
Bachelor of Science
Criminal Justice
Minor in Psychology

SKILLS

- * Participate in lecturing at PIPEmeetings (Prostitution Impact Prevention Education)
- * Maintain homeless, prostitute databases as well as the people locator database
- * Organized a tracking system for cold case homicide files

REFERENCES Available upon request

STATEMENT OF QUALIFICATIONS
(Use additional sheets if necessary)

Name of Lab: Palm Beach County Sheriff's Office
Crime Lab - DNA/Serology

Date: November 7, 2006

Name: Melanie McElroy Title: Laboratory Analyst

Discipline(s): Indicate all areas in which you do casework.

- | | | |
|--|--|--|
| <input type="checkbox"/> Controlled Substances | <input type="checkbox"/> Toxicology | <input checked="" type="checkbox"/> Serology/DNA Technical Support |
| <input type="checkbox"/> Firearms/Toolmarks | <input type="checkbox"/> Latent Prints | <input type="checkbox"/> Documents |
| <input type="checkbox"/> Trace Evidence | <input type="checkbox"/> Other _____ | |

Education: List all higher academic institutions attended.

Institution	Dates Attended	Major	Degree Completed
<u>Southern Illinois University</u>	<u>1977-1979</u>	<u>Biology</u>	<u>NO</u>
<u>Broward Community College</u>	<u>1989-1991</u>	<u>Biology</u>	<u>NO</u>
<u>Florida Atlantic University</u>	<u>1991-1994</u>	<u>Microbiology</u>	<u>B.S.</u>

Other Training: List continuing education, workshops, in-service and other formal training received.
See Attached

Courtroom experience: List the discipline(s) in which you have qualified to testify as an expert witness and indicate over what period of time and approximately how many times you have testified in each.
serology, Called for three depositions to date.

Professional Affiliations: List any professional organization of which you are or have been a member. Indicate any offices or other positions held and the date(s) of these activities.

American Association for the Advancement of Science during years 1993-1994

Employment History: List all scientific or technical positions held, particularly those related for forensic science. List current position first. Give a brief summary of principal duties in each position.

Job Title: Laboratory Analyst Employer: Palm Beach County Sheriff's Office
Crime Lab - DNA/Serology

Principal Duties:

Preserve Sexual Battery Collection Kits, preserve MEO Bloods, prepare chemicals, QA/QC reagents received, calibration of lab equipment, arrange maintenance agreements for equipment, address safety issues, apply hazard codes for all chemicals/reagents, identify chemicals for proper disposition, filter and dispose TBE/Ethidium bromide solutions, purchase all lab supplies, track budget funds and grant money, Serology analysis of casework, case file review, report writing, research grant cases, correspondence with Detectives, State Attorneys, outside Agencies, grant contractors, various departments within PBSO, prepare polyacrylamide gels, prepare grant identified cases to be outsourced for DNA analysis, testify

(2) Job Title: Biology Lab Manager Employer: Broward Community College
Department of Natural Science

Principal Duties:

Chemical preparation, media preparation, set up & breakdown student labs, maintain lab budget, order materials, oversee 12 student labs, assist faculty in developing new labs, assist in developing new Associate Programs.

(3) Job Title: Research Assistant - Microbiologist Employer: Harbor Branch
Oceanographic Institution

Principal Duties:

Grow & isolate deep sea marine microorganisms, prepare Isolates for working culture library, microscopy, cell smear staining, documentation of observations, prepare chemicals and media.

(4) Job Title: Student Research Assistant Employer: Florida Atlantic University
Recombinant DNA Lab

Principal Duties:

RNA purification, plasmid DNA isolation, digestion with endonuclease restriction enzymes, agarose gel electrophoresis, genomic DNA isolation, colony filter hybridization, southern blotting, radiolabeled Hybridization

Other Qualifications: List below any scientific publication and/or presentation you have authored or co-authored, research in which you are or have been involved, academic, or other teaching positions you have held, and any other information which you believe relevant to your qualification as a forensic scientist. Use additional sheets if necessary.

Conducted a required seminar for college credit on the topic of the neurological disorder Huntingtons Chorea. The topic consisted of explaining the molecular genetic techniques used to identify and target gene p16 of chromosome #4 containing the CAG repeat causing Huntingtons Chorea.

MELANIE McELROY

November 7, 2006

Professional History:

Laboratory Analyst, March 2000 - Present
Serology/DNA Section

Palm Beach County Sheriff's Office Crime Laboratory
West Palm Beach, Florida 33406

Biology Laboratory Manager, April 1996 – March 2000
Broward Community College
3501 SW Davie Road
Davie, Florida 33314

Research Assistant, October 1994 – April 1996
Harbor Branch Oceanographic Institution, Inc.
Division of Biomedical Marine Research
Fermentation Laboratory
5600 US 1 North
Fort Pierce, Florida 34946

Undergraduate Research Assistant, 1992 – 1994
Florida Atlantic University
Center for Molecular Biology and Biotechnology
Recombinant DNA Laboratory
Department of Biological Sciences
Boca Raton, Florida

Education:

Bachelor of Science, Microbiology
Florida Atlantic University, Boca Raton, Florida, April 1994

Undergraduate DNA Research:

Effects on 60Hz Electromagnetic Fields on Gene Expression in the Yeast
Saccharomyces cerevisiae

Gene Targeting in the basidiomycete fungus, *Coprinus cinereus*

Endangered Florida Semaphore Cactus *Opuntia*

Specialized

Presumptive and Confirmatory Analysis of Blood and Semen including KM, AP, ABACard Heme Trace, ABACard P30 and Christmas Tree Staining Methods, Palm Beach County Sheriff's Office, West Palm Beach, Florida
February 1, 2003

Presumptive and Confirmatory Analysis of Blood and Semen including KM, AP, ABACard HemaTrace, ABACard P30 and Christmas Tree Cell Staining Methods for Sexual Battery and Standards Kits, Palm Beach County Sheriff's Office, West Palm Beach, Florida
August 23, 2002

Hitachi CCDBio 16C Imaging System, Palm Beach County Sheriff's Office, West Palm Beach, Florida
April 24, 2001

Forensic Allele Frequency Statistical Analysis, Palm Beach County Sheriff's Office,
West Palm Beach, Florida

February 2, 2001

One Step ABA Card HemaTrace Protocol, Palm Beach County Sheriff's Office,
West Palm Beach, Florida
December 20, 2000

Courtroom Testimony Techniques, "Success Instead of Survival", Tampa Florida
December 4 – 5, 2000

OminiPrint, Palm Beach County Sheriff's Office, West Palm Beach, Florida
November 3, 2000

Forensic Evidence Handling Training, Palm Beach County Sheriff's Office,
West Palm Beach, Florida
May 17, 2000

Chemiluminescent Quantitation of Forensic DNA Extracts, Palm Beach County
Sheriff's Office, West Palm Beach, Florida
April 21, 2000

STATEMENT OF QUALIFICATIONS

(Use additional sheets if necessary)

Name of Lab: Palm Beach County Sheriff's Office

Date: November 30, 2006

Name: Amy McGuckian

Title: DNA Technical Leader

Discipline(s): Indicate all areas in which you do casework.

- | | | |
|--|--|--|
| <input type="checkbox"/> Controlled Substances | <input type="checkbox"/> Toxicology | <input checked="" type="checkbox"/> Serology/DNA |
| <input type="checkbox"/> Firearms/Toolmarks | <input type="checkbox"/> Latent Prints | <input type="checkbox"/> Documents |
| <input type="checkbox"/> Trace Evidence | <input type="checkbox"/> | |

Education: List all higher academic institutions attended.

Institution	Dates Attended	Major	Degree Completed
<u>Siena College</u>	<u>1993 – 1997</u>	<u>Biology</u>	<u>B.S.</u>

The George Washington University 1997 – 1999 Forensic Science/Serology MSFS

Other Training: List continuing education, workshops, in-service and other formal training received.

7/18/00-7/19/00 DNA typing with STR's: Fundamental Techniques and Practical Applications

12/4/00-12/5/00 Courtroom testimony techniques

3/11/01-3/16/01 4th Annual STR Megaplex Advanced Research and Training Workshop

5/30/01-6/01/01 Interpreting DNA Evidence, Summer Institute in Statistical Genetics

8/27/01-8/31/01 Analysis of Short Tandem Repeats by Capillary Electrophoresis

3/11/02-3/14/02 5th Annual STR Megaplex Advanced Research and Training Workshop

3/23/03-3/27/03 6th Annual STR Megaplex Advanced Research and Training Workshop

6/05/03-6/06/03 DNA Auditor Training

3/29/04-4/01/04 7th Annual STR Megaplex Advanced Research and Training Workshop

5/10/04-5/13/05 3rd Annual Advanced DNA Technology Workshop East

4/4/05-4/06/05 Present and Future Technological Advances in Human Identification Conference

8/21/05-8/26/05 17th Meeting of the International Association of Forensic Sciences

5/30/06-6/2/06 5th Annual Advanced DNA Technology Workshop

11/28/06 Biomek FX and NX Fundamentals Programming

11/29/06 – 11/30/06 Biomek FX and NX Methods Programming, 3.2 Software

Courtroom experience: List the discipline(s) in which you have qualified to testify as an expert witness and indicate over what period of time and approximately how many times you have testified in each.

Serology/DNA 08/00 – Present – 25 Times

Professional Affiliations: List any professional organization of which you are or have been a member. Indicate any offices or other positions held and the date(s) of these activities.

American Academy of Forensic Sciences - Trainee Affiliate 2/2002 - Associate Member 2/2004

Name: Amy McGuckian

Employment History: List all scientific or technical positions held, particularly those related for forensic science. List current position first. Give a brief summary of principal duties in each position.

(1) Job Title: DNA Technical Leader Employer: Palm Beach County Sheriff's Office

Principal Duties: Primarily responsible for documentation of the DNA Training Program, implementation of the DNA Training Program, maintenance of PBSO Serology/DNA protocols, evaluation of all methods used by the laboratory and proposing new DR modified analytical procedures to be used by examiners, as well as, solving technical problems within the laboratory. In addition perform forensic science examination performing forensic science examinations: including screening crime scene evidence, identification of biological evidence, conducting DNA PCR-based analysis and comparison of genetic DNA profiles from evidence-to-evidence, evidence-to-victim, and/or evidence-to-suspects. Preparing reports of findings for use by the criminal justice system and testifying in court as an expert witness. Also responsible for participating in the research and validation of new technologies implemented on case work evidence and present scientific data at national and international meetings.

(2) Job Title: Sr. Forensic Scientist Employer: Palm Beach County Sheriff's Office

Principal Duties: Performing forensic science examinations: including screening crime scene evidence, identification of biological evidence, conducting DNA PCR-based analysis and comparison of genetic DNA profiles from evidence-to-evidence, evidence-to-victim, and/or evidence-to-suspects. Preparing reports of findings for use by the criminal justice system and testifying in court as an expert witness. Also responsible for participating in the research and validation of new technologies implemented on case work evidence and present scientific data at national and international meetings.

(3) Job Title: Forensic Science Intern Employer: FBI National Academy/Forensic Science Training & Research

Principal Duties: Participated in a validation study of Perkin Elmer's Taqman 7700 sequence detector. Also performed STR DNA analysis for graduate thesis research on Applied Biosystems' 310 capillary electrophoresis and 377 gel electrophoresis.

(4) Job Title: Science Intern Employer: New York State Department of Health Labs

Principal Duties: Studied the metabolic products of vitamin k₃ in human cytosol and compared the human metabolites to those found in tests performed in rat cytosol. HPLC was utilized to identify the metabolic products and determine the amount present.

Other Qualifications: List below any scientific publication and/or presentation you have authored or co-authored, research in which you are or have been involved, academic, or other teaching positions you have held, and any other information which you believe relevant to your qualification as a forensic scientist. Use additional sheets if necessary.

1999 – Presentation American Academy of Forensic Science “Use of Microron[®] micro concentrators to maximize analyses of suspected seminal stains”.

1997-1999 – Graduate thesis research “An Evaluation of Acid Phosphatase, Prostate Specific Antigen, and Short Tandem Repeat (STR) DNA Analysis on the same semen stain”.

Steve Lee, Xavier Aranda, Dennis Yip, Arther Eisenberg, Cecelia A. Crouse, Amy McGuckian, et. al. Analysis of the FMBIO III plus: AAFS, February 21-25, 2005.

Presentation: Automation: The Answer to Improving Efficiency in a Small Forensic DNA Laboratory: 17th Meeting of the International Association of Forensic Sciences. Hong Kong, China, August 21 – 26, 2005.

Steve Lee, Xavier Aranda, Dennis Yip, Arther Eisenberg, Cecelia A. Crouse, Amy McGuckian, et. al. Inter-Laboratory Studies on the PowerPlex Y Using the FMBIO III Plus: 16th International Symposium on Human Identification Grapevine, TX, September 25-29, 2005.

Crouse, C. A., Yeung, S. H. I, Greenspoon, S. A, McGuckian, A. B., Sikorsky, J. C., Bann, J. and Matheis, R. A. Improving Efficiency of a Small Forensic DNA Laboratory: Validation of Robotic Assays and Evaluation of a Microcapillary Array Device. *Croatian Medical Journal* 2005;46(4):563-577.

Yeung, S. H. I., Greenspoon, S.A, McGuckian, A. B., Crouse, C. A., Emrich, C.A., Ban, J. and Mathies, R.A. Rapid and High-throughput Forensic Short Tandem Repeat Typing Using a 96-lane Microfabricated Capillary Array Electrophoresis Microdevice. *J Forensic Sci.*2006;51:740-747.

2006 – Workshop Instructor: Improving Efficiency in a Forensic Laboratory, Midwestern Association of Forensic Scientists, October 9, 2006.

STATEMENT OF QUALIFICATIONS

(Use additional sheets if necessary)

Name of Lab Palm Beach County Sheriff's Office **Date** 10/31/06

Name Russell Miller **Job Title** Forensic Scientist

Discipline(s): Indicate all areas in which you do casework.

- | | |
|--|--|
| <input type="checkbox"/> controlled substances | <input type="checkbox"/> questioned documents |
| <input type="checkbox"/> toxicology | <input type="checkbox"/> latent prints |
| <input type="checkbox"/> trace evidence | <input type="checkbox"/> crime scene |
| <input checked="" type="checkbox"/> biology | <input type="checkbox"/> digital and multimedia evidence |
| <input type="checkbox"/> firearms/toolmarks | |

Please list all subdisciplines in which you perform casework:

Biology/Serology (in training)

Education: List all higher academic institutions attended:

Institution	Dates Attended	Major	Degree Completed
Palm Beach Atlantic University	08/98 - 04/05	Molecular Biology and Biotechnology, Chemistry Minor	B.S.
Palm Beach Community College	08/99 - 05/01	N/A	N/A

Other Training: List continuing education, workshops, in-service and other formal training received.

Courtroom Experience: List all discipline(s) in which you have qualified to testify as an expert witness and indicate over what period of time and approximately how many times you have testified in each.

Professional Affiliations: List any professional organizations of which you are or have been a member. Indicate any offices or other positions held and the date(s) of these activities.

Employment History: List all scientific or technical positions held, particularly those related to forensic science. List current position first. Give a brief summary of principal duties and tenure in each position.

(1) Job Title Forensic Scientist Employer Palm Beach County Sheriff's Office

Perform visual as well as presumptive and confirmatory analytical tests where appropriate to identify biological stains such as blood, semen, and saliva from

Principal Duties: casework evidence.

Write laboratory reports identifying the sample, stating the methods and procedures used, and showing the results and comparison to known standards

Provides Secondary Observer (SO) help to Serology/DNA staff when requested.

Participates in research and validation of new Serology/DNA techniques.

Tenure 10/27/06 - Present

(2) Job Title _____ Employer _____

Principal Duties: _____

Tenure _____

(3) Job Title _____ Employer _____

Principal Duties: _____

Tenure _____

(4) Job Title _____ Employer _____

Principal Duties: _____

Tenure _____

Other Qualifications: List below any scientific publication and/or presentation you have authored or co-authored, research in which you are or have been involved, academic or other teaching positions you have held, and any other information which you consider relevant to your qualification as a forensic scientist. (Use additional sheets if necessary).

STATEMENT OF QUALIFICATIONS
(Use additional sheets if necessary)

Name of Lab: Palm Beach County Sheriff's Office
Date: December, 2006

Name: Tara Sessa Title: CODIS Administrator

Discipline(s): Indicate all areas in which you do casework.

- | | | |
|--|--|--|
| <input type="checkbox"/> Controlled Substances | <input type="checkbox"/> Toxicology | <input checked="" type="checkbox"/> Serology |
| <input type="checkbox"/> Firearms/Toolmarks | <input type="checkbox"/> Latent Prints | <input type="checkbox"/> Documents |
| <input type="checkbox"/> Trace Evidence | <input checked="" type="checkbox"/> Other <u>DNA</u> | |

Education: List all higher academic institutions attended.

Institution	Dates Attended	Major	Degree Completed
University of Central Florida	8/94-8/96	Forensic Sci.	B.S.
Palm Bch Comm. College	6/92-6/94	General	A.A.
University of Florida	8/91-5/92	General	N/A

Other Training: List continuing education, workshops, in-service and other formal training received.
See attached

Courtroom experience: List the discipline(s) in which you have qualified to testify as an expert witness and indicate over what period of time and approximately how many times you have testified in each.

Depositions- 43 Serology/DNA Frye, grand jury, evidentiary
hearings, court- 43

Professional Affiliations: List any professional organization of which you are or have been a member. Indicate any offices or other positions held and the date(s) of these activities.

American Academy of Forensic Scientists- Criminalist

Name: Tara Sessa

Employment History: List all scientific or technical positions held, particularly those related for forensic science. List current position first. Give a brief summary of principal duties in each position.

(1) Job Title: CODIS Administrator Employer: Palm Beach Sheriff's Office
Principal Duties: Manage the PBSO CODIS database, Perform serological and DNA analyses on blood and body fluid stains from evidence submitted by law enforcement agencies, testify.

(2) Job Title: Sr. Forensic Scientist Employer: Palm Beach Sheriff's Office
Principal Duties: Perform serological and DNA analyses on blood and body fluid stains from evidence submitted by law enforcement agencies., Testify

(3) Job Title: Forensic Scientist Employer: Palm Beach Sheriff's Office
Principal Duties: Perform serological analyses on blood and body fluid stains from evidence submitted by law enforcement agencies. Testify

(4) Job Title: Laboratory Assistant Employer: Palm Beach Sheriff's Office
Principal Duties: Assist with the FBI study amplification of samples, preparing and running gels, reagent preparation, blood standard cards from the medical examiner's office, purchase ordering, organization of the filing system, assist analysts as needed.

(5) Job Title: Intern Employer: Regional Crime Lab at IRCC
Principal Duties: With direct supervision - screened evidence, performed preliminary tests such as AP spot test, assisted with DQalpha 1 polymarker DNA testing, processed vehicles, and report writing.

(4) Job Title: _____ Employer: _____
Principal Duties: _____

Other Qualifications: List below any scientific publication and/or presentation you have authored or co-authored, research in which you are or have been involved, academic, or other teaching positions you have held, and any other information which you believe relevant to your qualification as a forensic scientist. Use additional sheets if necessary.

See attached

TARA L. SESSA
December 2006

**Professional
History:**

CODIS Administrator, June 2003-present
Forensic Biology Unit
Palm Beach County Sheriff's Office Crime Laboratory
West Palm Beach, FL

Senior Forensic Scientist, October 2001- present
Serology/DNA Section
Palm Beach County Sheriff's Office Crime Laboratory
West Palm Beach, FL

Forensic Scientist, February 1998 – September 2001
Serology/DNA Section
Palm Beach County Sheriff's Office Crime Laboratory
West Palm Beach, FL

Laboratory Analyst, April 1997 - February 1998
Serology/DNA Section
Palm Beach County Sheriff's Office Crime Laboratory
West Palm Beach, FL

Forensic Science Intern, May 1996 – August 1996
Regional Crime Laboratory at Indian River Community College
Ft. Pierce, FL

Education:

Bachelor of Science in Forensic Science
University of Central Florida, Orlando, FL
August 1996

Associate of Arts
Palm Beach Community College, Lake Worth, FL
June 1994

**Professional
Organizations:**

American Academy of Forensic Scientists, Criminalistics, 3/99-present

**Specialized
Training**

12th Annual National CODIS Conference, FBI Laboratory, Arlington, VA
October 23-24, 2006

Mandatory CODIS Administrators Meeting, Scottsdale, AZ September 20, 2006

11th Annual National CODIS Conference, FBI Laboratory, Crystal City, VA
November 7-9, 2005

Fourth Annual Advanced DNA Technology Workshop, Bode Technology Group, Duck Key, FL May 23-26, 2005.

10th Annual National CODIS Conference, FBI Laboratory, Crystal City, VA
November 15-17, 2004

Third Annual Advanced DNA Technology Workshop, Bode Technology Group,
Duck Key, FL May 10-13, 2004.

Seventh Annual STR MegaPlex and Research Technology Workshop, Bode Technology Group, Inc, Promega Corp, Hitachi Software, VA Institute of FS & Medicine, Virginia Beach, VA March 28- April 1, 2004

National CODIS Conference, FBI Laboratory, Lansdowne, VA
November 3-6, 2003

FBI Laboratory's Specialized CODIS Software Training,
SAIC/SSO, Vienna, VA June 3-7, 2002.

Fifth Annual STR MegaPlex and Research Technology Workshop, Bode Technology Group, Inc, Promega Corp, Hitachi Software, VA Institute of FS & Medicine, Hilton Head, SC March 10-15, 2002.

Fourth Annual Fluorescent STR MegaPlex Technology Workshop, Bode Technology and Promega Corp and Hitachi Software, Hilton Head, SC March 11-16, 2001.

Courtroom Testimony Techniques, "Success Instead of Survival", Tampa, FL
December 4-5, 2000.

Short Tandem Repeat Analysis by Capillary Electrophoresis, FBI Academy,
Quantico, Virginia July 31-August 4, 2000.

Advanced Fluorescent- STR MegaPlex Workshop, Bode Technology and
Promega Corp, Hilton Head, SC March 12-17, 2000.

DNA Typing with STRs-Fluorescent Detection, Promega, Madison, WI
July 20-21, 1999.

Forensic and Paternity Data Analysis, North Carolina University, Raleigh, NC
May 26-28, 1999.

Advanced Fluorescent- STR MegaPlex Workshop, Bode Technology, Hilton Head, SC March 21-24,
1999.

Population Genetics and Statistics Workshop, The Florida Crime Lab Council, Miami, FL February 23-25,
1999.

State of Florida Department of Law Enforcement CODIS Training- FDLE-
Tallahassee, FL December 14, 1998.

Fourth Annual CODIS User's Group Meeting, FBI Laboratory, Arlington, VA
November 19-20, 1998.

FBI Laboratory's Specialized Software Training for CODIS Local and State,
SAIC/SSO, Vienna, VA September 21-24, 1998.

Florida DNA Training Session IV: STRs – The Next Generation, The Florida
Crime Lab Council and The Florida Forensic Advisory Committee, Orlando, FL May 20-22, 1998.

FMBIO Advanced Users Training Course, Hitachi Genetic Systems, San Francisco, CA, March 11-13,
1998.

Peer Reviewed

EN Levedakou, DA Freeman, MJ Budzynski, BE Early, RC Damaso, AM

Publications:

Pollard, AJ Townley, JL Gombos, JL Lewis, FG Kist, ME Hockensmith, ML Terwilliger, E Amriott, KC McElfresh, JW Schumm, SR Ulery, F Konotop, TL Sessa, JS Sailus, CA Crouse, CS Tomsey, JD Ban, Ms Nelson, "Characterization and Validation Studies of PowerPlex 2.1, a Nine-Locus Short Tandem Repeat (STR) Multiplex System and Penta D Monoplex", The Journal of Forensic Sciences, July 2002, 757-772.

KA Micka, EA Amriott, TL Hockenberry, CJ Sprecher, AM Lins, DR Rabbach, JA Taylor, JW Bacher, DE Glidewell, SD Gibson, CA Crouse, JW Schumm, "TWGDAM Validation of a Nine-Locus and a Four-Locus Fluorescent STR Multiplex System", The Journal of Forensic Sciences, November 1999, 1243-1257

Presentations:

Tara Sessa, "Maintaining Compliance with CODIS Standards" 2nd Annual Homicide Conference, Boca Raton, FL December 6 2006.

Tara Sessa, "CODIS Update" First Annual Homicide Conference, Boca Raton, FL December 6-8, 2005.

Tara Sessa, "Prioritizing Minor Crime DNA Analysis to Yield Major Results" Fourth Annual Advanced DNA Technology Workshop, Duck Key, FL May 23-26, 2005.

Tara Sessa, "Robotics in a Small Laboratory" 10th Annual National CODIS Conference, Crystal City, VA November 15-17, 2004

Tara Sessa, "The Effect of No-Suspect Grant on Local CODIS Administration" STR MegaPlex and Research Technology Workshop, Virginia Beach, VA March 28- April 1, 2004

Tara Sessa, "PowerPlex 16: Casework Experience" STR MegaPlex and Research Technology Workshop", Hilton Head, SC March 10-15, 2002.

Tara Hockenberry, "Case-In-Point: Mixtures" Fluorescent STR MegaPlex Technology Workshop, Hilton Head, SC March 11-16, 2001.

Tara Hockenberry, "PowerPlex 1.1. and 2.1 Inheritance Study" Fluorescent STR MegaPlex Technology Workshop Advanced Session, Hilton Head, SC March 12-17, 2000.

Abstracts:

Tara Hockenberry, Jeff Sailus, Cecelia Crouse, "Analysis and Interpretation of Genetic Mutations Using Thirteen Short Tandem Repeats in Thirty-Nine Parent/Child Allelic Transfers" 9th International Symposium on Human Identification, Orlando, FL, October 7-10, 1998.

KA Micka, EA Amriott, CJ Sprecher, AM Lins, DR Rabbach, JA Taylor, JW Bacher, CA Crouse, TL Hockenberry, DE Glidewell, SD Gibson, JW Schumm, "Validation of the *GENEPRINT* Powerplex 1.1 and FFFL STR Multiplex Systems" 9th International Symposium on Human Identification, Orlando, FL October 7-10, 1998.

STATEMENT OF QUALIFICATIONS

Name of Lab: Palm Beach County Sheriff's Office
Date: 4/07

Name: Julie Conover Sikorsky Title: Sr. Forensic Scientist

Discipline(s): Indicate all areas in which you do casework or support casework functions.

- Controlled Substances
- Firearms/Toolmarks
- Crime Scene
- Management
- Toxicology
- Latent Prints
- Photo
- Other _____
- Forensic Biology
- Clerical
- Evidence

Education: List all higher academic institutions attended.

Institution	Dates Attended	Major	Degree Completed
University of California at San Diego	9/94 - 6/98	Molecular Biology	B.S.
John Marshall University	8/98 - 5/02	Forensic Science	M.S.
	Biomedical Science	(Microbiology)	M.S.

Other Training: List continuing education, workshops, in-service and other formal training received.

In-House Training:

- 2/2/07: Eppendorf Mastercycler® Training Program
- 9/1/06: Slicprep™ 96 Device Training Program
- 5/6/05: CPE Mixture Statistic Training Program
- 3/7/05: MixSTR Software Training Program
- 2/25/05: ABI 7000 Real-Time PCR Training Program
- 6/19/03: Beckman Biomek 2000 DNA Extraction Protocol/ Promega DNA IQ Program
- 4/22/03: Forensic DNA Analysis, Statistics and CODIS Training Programs
- 12/20/02: Promega DNA IQ Extraction Training Program
- 9/4/02: Quantification and Hitachi CCD BIO DNA Detection Training Program
- 7/11/02: Evidence Handling and Preservation, Laboratory Safety and Forensic Serological Methods for casework evidence.

Other:

- 4th Annual Applied Technology Conference: April 3rd – 5th, 2007. Sponsored by the National Institute of Justice, Orange County, California
- Biomek FX & NX Methods Programming, 3.2 Software: November 29th – 30th, 2006. Given by Beckman Coulter, Fullerton, California.
- Biomek FX & NX Fundamentals Programming, 3.2 Software: November 28th, 2006. Given by Beckman Coulter, Fullerton, California.
- Promega Technology Tour '06: Attendee, June 13th, 2006 Washington, D.C. Sponsored by Promega Corporation.
- Fifth Annual Bode East Coast Advanced DNA Technology Workshop: Attendee, May 30th- June 2nd, 2006 Captiva Island, Florida. Sponsored by the Bode Technology Group, Inc. Workshop: Statistics in the Courtroom.
- Present and Future Technological Advances in Human Identification Conference: Attendee, April 3rd-6th, 2005. Charlottesville, Virginia
- American Academy of Forensic Sciences 57th Annual Meeting: Attendee, February 21st-25th, 2005. Course in Preparing a Forensic Science Laboratory for Accreditation Under ISO 17025, February 22, 2005 New Orleans, Louisiana
- 17th International Symposium on the Forensic Sciences, the Australian and New Zealand Forensic Science Society Biennial Conference: Attendee, March 28th- April 2nd, 2004 Te Papa Tongarewa, Wellington, New Zealand.

Name: Julie Conover Sikorsky

- **Courtroom Testimony Techniques "Success Instead of Survival":** Attendee, September 29-30th, 2003 Miami, Florida. Given by Ron Smith & Associates, Inc. and co-sponsored by the Miami Dade Police Department.
- **New DNA Technology Expedition:** Attendee, June 19, 2003 Columbus, Ohio. Sponsored by Promega.
- **STR MegaPlex and Research Technology Workshop:** Attendee, March 23-27, 2003 Virginia Beach, Virginia. Sponsored by The Bode Technology Group, Inc., Promega Corp., MiraiBio, Inc. and supported by the Virginia Division of Forensic Science and the Palm Beach County Sheriff's Office.
- **American Academy of Forensic Sciences 55th Annual Meeting:** Attendee, February 17th-21st, 2003. Course in Low Copy Number DNA Analysis: A Community Forum, February 18, 2003. Course in Extracting DNA Profiles from Challenging Sample Materials, February 17, 2003 Chicago, Illinois.
- **American Academy of Forensic Sciences 54th Annual Meeting:** Attendee, February 11th-16th, 2002. Course in Planning and Designing a Forensic Laboratory: Perspectives on the Process from Laboratory Personnel, Architects, and Engineers, February 11, 2002. Participation in the Young Forensic Scientists Forum- Establishing a Foundation for a Successful Career in Forensic Science, February 12, 2002 Atlanta, Georgia.
- **FBI Course: The Implementation and Interpretation of STRs in the Forensic Laboratory:** Attendee, June 4-6, 2001 Huntington, West Virginia
- **Cambridge Health Institute: Forensic DNA conference:** Attendee, May 31-June 2, 2000
- **Death Investigation: A Training Course:** Attendee, March 20-21, 2000 Sponsored by the West Virginia Office of the Medical Examiner and Marshall University.
- **Cabell County Sheriff's Department Firearms Training and Safety Course:** Attendee, March 11, 2000
- **International Association of Arson Investigators (West Virginia) course: Arson Detection for the First Responder:** Attendee, January 30, 2000
- **International Association of Forensic Science's 15th Triennial Meeting:** August 22-28, 1999 Los Angeles, CA
Workshops: **Tools for the STR Typing Laboratory:** August 23, 1999
Biological Evidence at the Crime Scene: A DNA Primer: August 24, 1999
- **National Rifle Association: Basic Pistol Course:** Attendee, March 14, 1999
- **Advanced Ampf/STR™ and ABI PRISM™ 310 Genetic Analyzer Training Workshop:** Attendee, March 30-April 2, 1999

Courtroom experience: List the discipline(s) in which you have qualified to testify as an expert witness and indicate over what period of time and approximately how many times you have testified in each.

- Forensic Biology, specifically Forensic DNA Analysis: Since 2003 I have testified in State Court 8 times and Federal Court, twice.

Professional Affiliations: List any professional organization of which you are or have been a member. Indicate any offices or other positions held and the date(s) of these activities.

- Member of the American Academy of Forensic Science (Affiliated since 1999-Present)

Employment History: List all scientific or technical positions held, particularly those related for forensic science. List current position first. Give a brief summary of principal duties in each position.

(1) Job Title: Senior Forensic Scientist Employer: Palm Beach County Sheriff's Office

Principal Duties: May 2002 to Present – Responsible for the characterization, identification and analysis of biological evidence utilizing serological techniques and PCR based DNA technologies, preparing reports on findings and testifying in court as an expert witness. Also responsible for participating in the research and validation of new technologies implemented on casework evidence and presenting scientific data at national and international meetings.

Name: Julie Conover Sikorsky

(2) Job Title: Graduate Student Employer: Joan C. Edwards School of Medicine Dept. of Microbiology

Principal Duties: May 2000 – May 2002 Conducted research on the variability of the Herpes Simplex Virus Genome.

(3) Job Title: Graduate Research Associate Employer: Joan C. Edwards School of Medicine Dept. of Biochemistry

Principal Duties: Sept. 1998 – May 2000 Worked as a Graduate Assistant in a breast cancer research laboratory conducting steroid hormone research experiments utilizing T47D breast cancer cells

(4) Job Title: Intern – DNA Analysis Section Employer: Los Angeles County Sheriff's Department – Scientific Services Bureau

Principal Duties: June – Aug. 1999 Received advanced training on the ABI 310 Genetic Analyzer and helped to validate ABI 310 Genetic Analyzers for use in DNA casework (Analyzed electropherograms for: precision, stutter, homozygosity, allele balance, mixtures, minus A peaks, and sensitivity).

(5) Job Title: Clinical AIDS Research Assistant Employer: University of California San Diego Medical School

Principal Duties: 1996-1998. Conducted directed experiments on Cytomegalovirus (CMV) as well as performed personal research in this field utilizing Polymerase Chain Reaction (PCR), DNA purification, radioisotopes (³²P, ³H), biohazard safety levels 2 and 3, phenol extraction, gene cloning, and cell culture.

Other Qualifications: List below any scientific publication and/or presentation you have authored or co-authored, research in which you are or have been involved, academic, or other teaching positions you have held, and any other information which you believe relevant to your qualification as a forensic scientist or forensic scientist support personnel. Use additional sheets if necessary.

Teaching:

- Guest Lecturer in Marshall University's Graduate Communications Course: January 2002
- Forensic DNA Laboratory Instructor for Marshall University's Forensic Science Graduate Program, January – May 2001

Posters/Oral Presentations:

- Invited Speaker: 4th Annual NIJ Applied Technology Conference in Orange County, California (April 3rd – 5th, 2007). Presentation entitled: "How to Turbo Charge Your Crime Lab: Process Mapping."
- Invited Speaker: 2nd Annual Homicide Conference 2006 in Boca Raton, Florida (December 6, 2006). Presentation entitled: "Advanced Topics in Forensic DNA Analysis."
- Invited Speaker: Promega Technology Tour '06 in Washington, D.C. (June 13th, 2006). Presentation entitled "Anything You Can Do I Can Do Better: A Robot's Perspective on Casework."
- Invited Speaker: Florida Law Enforcement Property Recovery Unit (FLEPRU) Conference in Orlando, Florida (December 8th, 2005). Presentation entitled "Implementation of a No-Suspect DNA Backlog Reduction Grant and it's Affects on Property Crime in Palm Beach County"

Name: Julie Conover Sikorsky

- **Invited Speaker: Present and Future Technological Advances in Human Identification Conference: April 4th-6th, 2005.** Presentation entitled "Integration of Real-Time PCR Protocols with the Biomek 2000"
- **Invited Panelist: Present and Future Technological Advances in Human Identification Automation Workshop (April 4th, 2005)**
- **Invited Keynote Speaker: 17th International Australian and New Zealand Forensic Science Symposium (28th March to 2nd April 2004)** presentation entitled "Successful Validation and Implementation of Automation in a Small Caseworking Laboratory"
- **Invited Speaker: New York State Police Forensic Investigation Center and The Division of Criminal Justice Services present A DNA EXPO (September 9, 2003)** presentation entitled "Automation of Forensic DNA Samples"
- **Invited Speaker: The Promega New DNA Technology Expedition (June 19th, 2003)** presentation entitled: "Small Laboratory Use of the Biomek[®] 2000"
- **Presentation at the 6th Annual STR MegaPlex And Research Technology Workshop (March 23-27, 2003)** entitled "Small Laboratory Validation of the BioMek[®] 2000"
- **Presentation at the 54th Annual American Academy of Forensic Sciences (February 11-16, 2002)** entitled "The Reliability and Validity of Scientific Techniques: The Shaping of Scientific and Legal Communities After Frye."
- **Poster Presentation at the 13th Annual Joan C. Edwards School of Medicine at Marshall University Research Conference (March 28, 2000):** Sustained Progesterone Stimulation of Proliferation Accompanied by Down-Regulation of Bcl-2 and Protection from Cell Death in T47D Breast Cancer Cells. Julie L. Conover, Kevin M. Franks, and Michael R. Moore.
- **Research Scholar at the 11th Annual UCSD Undergraduate Research Conference (May 16, 1998):** Presentation on "Glycoprotein B (gB) Gene Variation in CMV Associated with Retinitis in AIDS Patients. "

Publications:

- Improving Efficiency of a Small Forensic DNA Laboratory: Validation of Robotic Assays and Evaluation of Microcapillary array Device. Crouse CA, Yeung S, Greenspoon S, McGuckian A, Sikorsky J, Ban J, Mathies R. Palm Beach County Sheriff's Office Crime Laboratory, West Palm Beach, Florida. (2005) *Croatian Medical Journal*. 46(4): 563-577.
- Successful Validation and Implementation of (Semi) Automation in a Small Caseworking Laboratory. Conover, JL and Crouse, CA Palm Beach County Sheriff's Office, Technical Services Division, West Palm Beach, Florida (September, 2003). Abstract publication Fourteenth International Symposium on DNA Identification.
- Progesterone Effects on Long-Term Growth, Death, and Bcl-xL in Breast Cancer Cells. Moore MR, Conover JL, and Franks KM. Department of Biochemistry and Molecular Biology, Marshall University School of Medicine, Huntington, West Virginia. (2000) *Biochemical and Biophysical Research Communications*. 277, 650-654.
- US9 Variation in clinical CMV Isolates: Carboxy-terminal truncated US9 Associated with CMV Disease. Irene L. Smith, Marshall L. Pilcher, Barauch D. Kuppermann, Julie L. Conover and Stephen A. Spector. University of California, San Diego and University of California, Irvine. Abstract publication 1998 International Herpes Virus Workshop (July 18-24, 1998).

William J. Springer

3228 Gun Club Road

West Palm Beach

Fl. 33406

561-688-4013

springerw@pbso.org

PROFILE

Homicide supervisor – 12 years experience supervising detectives investigating the cause and circumstances of natural deaths, unattended deaths, suicides and homicides. Supervised the investigation and analyzing of crime scenes for the collections of hair, fiber, blood, body fluids and tissue for possible matches to a suspect. Reviewed unsolved homicide cases and assigned them to detectives for additional investigation. Reviewed unsolved homicides and submitted evidence taken from crime scenes to be processed for DNA.

I have supervised over 120 homicide investigations over the past 12 years. I have investigate numerous unsolved homicides myself while supervising the active cases.

WORK HISTORY

Feb. 1992 – present

**Detective Sergeant
Palm Beach County Sheriff's Office**

Supervised detectives investigating natural deaths, suicides, homicides aggravated batteries and other serious crimes.

June 1990- Feb. 1992

**Detective Sergeant
Palm Beach County Sheriff's Office**

Supervised detectives investigating property crimes.

June 1987-June 1992 **Road Patrol Supervisor**
Palm Beach County Sheriff's Office

Supervised everyday uniform operations.

Dec. 1982 – June 1992 **Detective**
Palm Beach County Sheriff's Office

Investigated sexual batteries, homicides
suicides and other death investigations.

March 1980 – Dec. 1982 **Road Patrol Deputy**
Palm Beach County Sheriff's Office

July 1978 – March 1980 **State of Florida**
Department of Corrections
Probation and Parole

August 1969 – July 1978 **Pennsylvania State Police**

EDUCATION

1972-1978 1972-1978 **The Pennsylvania State University**
State College, Pennsylvania

Bachelor of Science
Law Enforcement and Corrections

JOHN R. VAN HOUTEN
3228 GUN CLUB ROAD
FLORIDA 33406
561-688-4157
VANHOUTENJ@PBSO.ORG

PROFILE

Homicide Detective II/Polygraph Examiner with 16 years experience investigating the cause and circumstances of natural deaths, unattended deaths, and suicides and homicides to include cold case homicides. I am skilled with the proper investigation and collections of crime scene evidence including but not limited to, the collection of hairs, fibers and DNA. I am familiar with the CODIS DNA database. I am a certified Polygraph Examiner and have attended numerous homicide schools and seminars. Over 25 years of total law enforcement experience.

WORK HISTORY

Sept. 1992-Present **Detective II (Career Deputy II)**
Palm Beach County Sheriffs Office
West Palm Beach, Florida 33406

Nov 1989-Sept 1992 **Detective I**
Palm Beach County Sheriffs Office
Belle Glade, Florida 33440

Oct 1987- Nov 1989 **Deputy Sheriff**
Palm Beach County Sheriffs Office
Belle Glade, Florida 33440

Responsibilities:

- * Investigating homicides, cold case homicides, suicides, accidental deaths, missing persons, unidentified remains, and crimes against persons.
- * Prepared case files for the purpose of attending and testifying in criminal proceedings, grand jury, and depositions.

EDUCATION

Barry University
Miami, FL
Obtained 81 credits

MILITARY

1973-1977

**United States Army
1st Infantry Division**

SKILLS

Certified Polygraph Examiner
Field Training Officer
Detective of the Year 1997
Life Saving Award 1998

REFERENCES

Available upon request

Patrick Woodward
3228 Gun Club Road
West Palm Beach
FL. 33406
561-688-4144
woodwardp@pnbsso.org

PROFILE

Professionally qualified Detective with more than 2 years experience investigating the cause and circumstances of natural deaths, unattended deaths, suicides, homicides and robberies. Since December, 2005, I have worked primarily on unresolved homicides. I have reviewed numerous "cold cases" to determine if new forensic techniques and technologies could be applied to existing evidence to assist in identifying a suspect(s).

WORK HISTORY

Sept. 2005-Present

Detective Violent Crimes Division
Palm Beach County Sheriff's Office
West Palm Beach, FL 33406

Responsibilities:

- *Response to Violent Crimes Scenes for investigation and collection of evidence
- *Prepare cases to present to State Attorney's Office
- *Familiar with CODIS DNA database
- *Skilled with proper investigation and collection of crime scene evidence
- *Experienced in testifying in criminal proceedings, grand jury, and depositions

Achievements:

- *Attended homicide and advanced investigative interview and Interrogation courses

Jan 2003-Oct 2003

Road Patrol Officer
Palm Beach County Sheriff's Office
West Palm Beach, FL 33406

Responsibilities:

- *Investigate all types of crimes, taking initial reports, conducting on scene investigations.
- *Experienced in testifying in criminal proceedings and depositions.

Aug 1997-Jan 2003 **Traffic Homicide Investigator**
Port St. Lucie Police Department
Port St. Lucie , FL 34945

Responsibilities:

- *Investigate all traffic crashes involving serious injury or death.
- *Perform in-depth investigations using all available technical resources (DNA / Forensics / laser measuring devices)
- *Prepare cases for presentation to the State Attorney

EDUCATION

1981-1983 **Palm Beach community College**
Lake Worth, FL
Associate Degree in Criminal Justice

Oct-Jan 1983 **Palm Beach County Criminal Justice Academy**
Lake Worth, FL
Law Enforcement Certificate

2001-2003 **Union Institute and University**
Cincinnati, OH
Bachelor of Arts Degree
Major in Criminal Justice

REFERENCES Available upon request

H. LIST OF PREVIOUS, CURRENT NIJ AWARDS

Previous

Solicitation for the Forensic DNA Laboratory Improvement Program
State of Florida Statewide Coordinated DNA Laboratory Program 1996-1997
96-IJ-CX-0095
Grant Period 10/1/96 – 3/31/98
\$158,966
U.S. Department of Justice/National Institute of Justice

Solicitation for the Forensic DNA Laboratory Improvement Program
State of Florida Statewide Coordinated DNA Laboratory Program 1998-1999
98-DN-VX-0034
Grant Period 10/1/98 – 3/31/00
\$195,060
U.S. Department of Justice/National Institute of Justice

Solicitation for the Forensic DNA Laboratory Improvement Program
State of Florida Statewide Coordinated DNA Laboratory Program
98-DN-VX-0034
DNA Consortium Grant
Grant Period 10/1/00 - 12/31/2001
\$237,441
U.S. Department of Justice/National Institute of Justice

No Suspect Casework DNA Backlog Reduction Program (FY 2001)
State of Florida Statewide Coordinated DNA Laboratory Program
2002-DN-BX-K006
Grant Period 7/1/02-12/31/04
\$581,831
U.S. Department of Justice/National Institute of Justice

Crime Laboratory Improvement Program for FY 2002
2003-LP-CX-K010
Grant Period 10/1/02-6/30/04
\$158,465
U.S. Department of Justice/National Institute of Justice

Paul Coverdell National Forensic Science Improvement Act Grant
State of Florida Statewide Coordinated Laboratory Program
2003-DN-BX-0012
Grant Period 10/1/02-7/1/2004
\$11,438.88
U.S. Department of Justice/National Institute of Justice

Solving Cold Cases with DNA 2007 Palm Beach County Sheriff's Office, FL

No Suspect Casework DNA Backlog Reduction Program (FY 2003)
State of Florida Statewide Coordinated DNA Laboratory Program
2003-DN-BX-K109
Grant Period 9/1/03-2/28/05
\$377,174
U.S. Department of Justice/National Institute of Justice

Paul Coverdell National Forensic Science Improvement Act Grant
State of Florida Statewide Coordinated Laboratory Program
2003-DN-BX-0049
Grant Period 9/1/03-2/28/2005
\$12,769.13

Paul Coverdell National Forensic Science Improvement Act Grant
State of Florida Statewide Coordinated Laboratory Program
2004-DN-BX-0152
Grant Period 11/1/04-10/31/2005
\$23,412.80

NIJ DNA Continuation Grant
Palm Beach County Florida, Continuation of DNA Program FY2004
2003-DN-BX-4035
Grant Period 8/1/04 – 1/31/06
\$674,414

NIJ DNA Capacity Enhancement Program
State of Florida Formula Grant FY 2004
2004-DN-BX-K105
Grant Period 9/1/04 – 2/28/06
\$181,765

Current

NIJ Forensic Casework DNA Backlog Reduction Program
State of Florida Formula Grant FY 2004
2004-DN-DB-K140
Grant Period 9/1/04 – 8/31/07
\$191,807

NIJ Solving Cold Cases with DNA
PBSO Solving Cold Cases with DNA Program
2004-DN-BX-K031
Grant Period 6/1/05-12/31/07
\$374,761

Solving Cold Cases with DNA 2007 Palm Beach County Sheriff's Office, FL

NIJ DNA Capacity Enhancement Program
State of Florida Formula Grant FY 2005
2005-DA-BX-K075
Grant Period 10/1/05 – 9/30/07
\$152,103

NIJ Forensic Casework DNA Backlog Reduction Program
State of Florida Formula Grant FY 2005
2005-DN-DX-K099
Grant Period 10/1/05 – 9/30/07
\$118,830

NIJ DNA Capacity Enhancement Program
State of Florida Formula Grant FY 2006
2006-DN-BX-K224
Grant Period 10/1/06 – 9/30/07
\$205,343

NIJ Forensic Casework DNA Backlog Reduction Program
State of Florida Formula Grant FY 2006
2006-DN-DX-K071
Grant Period 10/1/06 – 9/30/07
\$103,115

Paul Coverdell National Forensic Science Improvement Act Grant
State of Florida Statewide Coordinated Laboratory Program 2005
2005-DN-BX-0073
Grant Period 9/1/05 – 9/30/07
\$35,008.60

Paul Coverdell National Forensic Science Improvement Act Grant
State of Florida Statewide Coordinated Laboratory Program 2006
2006-DN-BX-0041
Grant Period 10/1/06 – 9/30/07
\$39,559.48

I. MILESTONES

- Identification of qualifying case
 - How to document details of the case
 - Use current electronic form
 - Prioritization
 - Category 1
 - Category 2
 - Category 3
 - Case assignment-detectives
 - Tasks
 - Developing leads
 - Evaluation of evidence
 - Location of evidence
 - Obtaining DNA standards
 - Performing interviews/travel etc
 - Submission of evidence to laboratory
 - Notification of case status
 - Analyst assignments
 - Serological analysis
 - DNA analysis
 - CODIS entry
 - Hit
 - No-hit
 - State Attorney's Office
 - Meeting to determine judicial needs
 - More evidence
 - More investigation
- Budget considerations:
 - Serological reagents
 - DNA analytical reagents
 - Office Supplies

Overtime will be necessary for the VCU team members which include the Criminal Analyst and the Forensic Biology staff that will conduct the serological and DNA analysis.

BUDGET NARRATIVE

TOTAL: \$176,235

A. Personnel: \$54,235 Overtime

One of the lessons learned from the current Cold Case grant was the time it would take for the Forensic Biology Staff to conduct Cold Case analysis. Primarily this was due to the significant amount of time necessary to find the evidence, initiating an electronic log which had to be matched to decade old hand written logs, and the number of times an analyst had to go back to the case to screen and analyze new evidence. The PBSO General Order 208.01, Section 3C provides overtime pay for exempt employees with approval from the Sheriff. This approval has been requested and granted by Sheriff Ric Bradshaw.

In addition, forensic cold cases must be identified and investigated for potential solvability and presence of biological material for DNA analysis. The Violent Crimes Division (VCD) Cold Case Squad will be participating in the investigative process including review of cases, interviewing witnesses and suspects, travel and organization of documentation, and will determine if the cases are likely to have biological evidence and submit the case to the laboratory. The Forensic Biology Unit will be responsible for screening and DNA analysis and potential outsourcing for specialized analysis not performed in our laboratory such as hair analysis, mitochondrial, and biogeographical DNA testing and Y-STR testing. Based on the current Cold Case Grant experience, is expected that the following overtime will be necessary:

Total Hrs Rate 1.5 Cost

Cold Case Squad includes a Sergeant, Detectives and Criminal Intelligence Analyst. The average cost/hour (1.5 for Overtime) is \$55.00

Cold Case Squad - 550hrs x \$55.00 \$30,250

Total Hrs Rate 1.0 Cost

The Forensic Biology Unit staff consists of 7 DNA proficient Sr. Scientists, 2 Serology proficient scientists and 2 Laboratory Scientists. Average cost/hour for overtime is \$45.00

Forensic Biology Staff - 533hrs x \$45.00 \$23,985

B. Fringe Benefits: \$4,150 Overtime

Calculated FICA as 7.65% of the above overtime rate.

C. Travel: \$16,000

It will be necessary for the VCD Unit detectives to travel to interview witnesses and suspects in the investigation of their cold case assignments. The travel will be both in state and out of state and require both automobile and air travel, hotel lodging, per diem and the cost of car rentals. It is the policy of PBSO Investigative Services to require two detectives be present at witness and suspect interviews. It is anticipated travel would be required for approximately 8 cases from the VCD. Per PBSO travel policy: travel includes \$48 subsistence, \$95 hotel/night, 0.485 mileage, and estimate \$600 airfare and \$138 car rental for out of state travel.

2 investigators x 8 cases x \$1000/case **\$16,000**

D. Equipment: none

E. Supplies: \$35, 250

PBSO purchasing policies will be followed in procurement of supplies.

In-house screening and DNA analysis laboratory disposable supplies including:

- PowerPlex16 kits, Quantifiler Kits, Quantifiler-Y kits, \$33,000
- Buffer reagents, disposables such as gloves, pipette tips etc \$1,500
- General Office Supplies such as paper, markers, notepads etc. \$750

F. Construction: Not Applicable

G. Consulting/Contract: \$66,600

Consultants and contracts with approved vendor and out-sourcing laboratories will be required for the examination of evidence not currently performed in the PBSO Serology/DNA laboratory. These include:

- Microscopy of hair for determination of viable DNA analysis (Dr. Hal Deadman):
Approximately 8 cases at \$200/case = \$1,600
- Mitochondrial DNA analysis (MitoTyping) 5 cases x 2 samples/case at
\$3,900/case = \$39,000
- Y STR analysis (Reliagene): 10 cases x 2 hairs/case x \$1,100/hair = \$22,000
- Biogeographical profiling (DNA Print Genomics): 4 cases x 1,000/case = \$4,000

H. Other Costs: Not Applicable

I. Indirect Costs: Not Applicable

Budget Detail Worksheet

Purpose: The Budget Detail Worksheet may be used as a guide to assist you in the preparation of the budget and budget narrative. You may submit the budget and budget narrative using this form or in the format of your choice (plain sheets, your own form, or a variation of this form). However, all required information (including the budget narrative) must be provided. Any category of expense not applicable to your budget may be deleted.

A. Personnel - List each position by title and name of employee, if available. Show the annual salary rate and the percentage of time to be devoted to the project. Compensation paid for employees engaged in grant activities must be consistent with that paid for similar work within the applicant organization.

Name/Position	Computation	Cost
Cold Case Squad	550 hrs. x \$55.00/hour	\$30,250.00
Forensic Biology Unit	533 hrs. x \$45.00/hour	\$23,985.00
Postition 3		
Postition 4		
Postition 5		
Postition 6		
SUB-TOTAL		\$54,235.00

B. Fringe Benefits - Fringe benefits should be based on actual known costs or an established formula. Fringe benefits are for the personnel listed in budget category (A) and only for the percentage of time devoted to the project. Fringe benefits on overtime hours are limited to FICA, Workman's Compensation, and Unemployment Compensation.

Name/Position	Computation	Cost
Fringe benefit 1, Calculated FICA 7.65% of Overtime	54,235 x 7.65%	\$4,150.00
Fringe benefit 2		
Fringe benefit 3		
Fringe benefit 4		
Fringe benefit 5		
SUB-TOTAL		\$4,150.00
Total Personnel & Fringe Benefits		\$58,385.00

C. Travel - Itemize travel expenses of project personnel by purpose (e.g., staff to training, field interviews, advisory group meeting, etc.). Show the basis of computation (e.g., six people to 3-day training at \$X airfare, \$X lodging, \$X subsistence). In training projects, travel and meals for trainees should be listed separately. Show the number of trainees and the unit costs involved. Identify the location of travel, if known. Indicate source of Travel Policies applied, Applicant or Federal Travel Regulations.

Purpose of Travel	Location	Item	Computation	Cost
Interview witnesses-Detectives	Various	Travel, per diem, hotel	2 Det. x 8 cases x \$1000	\$16,000.00
TOTAL				\$16,000.00

D. Equipment - List non-expendable items that are to be purchased. Non-expendable equipment is tangible property having a useful life of more than two years and an acquisition cost of \$5,000 or more per unit. (Note: Organization's own capitalization policy may be used for items costing less than \$5,000). Expendable items should be included either in the "supplies" category or in the "Other" category. Applicants should analyze the cost benefits of purchasing versus leasing equipment, especially high cost items and those subject to rapid technical advances. Rented or leased equipment costs should be listed in the "Contractual" category. Explain how the equipment is necessary for the success of the project. Attach a narrative describing the procurement method to be used.

Item	Computation	Cost
N/A		
TOTAL		\$0.00

G. Consultants/Contracts - Indicate whether applicant's formal, written Procurement Policy or the Federal Acquisition Regulations are followed.

Consultant Fees: For each consultant enter the name, if known, service to be provided, hourly or daily fee (8-hour day), and estimated time on the project. Consultant fees in excess of \$450 per day require additional justification and prior approval from OJP.

Name of Consultant	Service Provided	Computation	Cost
Dr. Hal Deadman	Hair Microscopy	8 x \$200	\$1,600.00
MitoTyping	Mitochondrial DNA analysis	10 x #3900	\$39,000.00
Reliagene	Y-STR DNA typing	20 x \$1100	\$22,000.00
DNA Print Genomics	Biogeographical DNA profiling	4 x \$1000	\$4,000.00
<i>Subtotal</i>			\$66,600.00

Consultant Expenses: List all expenses to be paid from the grant to the individual consultants in addition to their fees (i.e., travel, meals, lodging, etc.)

Item	Location	Computation	Cost
N/A			
<i>Subtotal</i>			\$0.00

Contracts: Provide a description of the product or service to be procured by contract and an estimate of the cost. Applicants are encouraged to promote free and open competition in awarding contracts. A separate justification must be provided for sole source contracts in excess of \$100,000.

Item	Cost	
N/A		
<i>Subtotal</i>		\$0.00
TOTAL		\$66,600.00

H. Other Costs - List items (e.g., rent, reproduction, telephone, janitorial or security services, and investigative or confidential funds) by major type and the basis of the computation. For example, provide the square footage and the cost per square foot for rent, or provide a monthly rental cost and how many months to rent.

Description	Computation	Cost
N/A		
TOTAL		\$0.00

I. Indirect Costs - Indirect costs are allowed only if the applicant has a Federally approved indirect cost rate. A copy of the rate approval, (a fully executed, negotiated agreement), must be attached. If the applicant does not have an approved rate, one can be requested by contacting the applicant's cognizant Federal agency, which will review all documentation and approve a rate for the applicant organization, or if the applicant's accounting system permits, costs may be allocated in the direct costs categories.

Description	Computation	Cost
N/A		
N/A		
TOTAL		\$0.00

Budget Summary- When you have completed the budget worksheet, transfer the totals for each category to the spaces below. Compute the total direct costs and the total project costs. Indicate the amount of Federal requested and the amount of non-Federal funds that will support the project.

Budget Category	Amount
A. Personnel	<u>\$54,235.00</u>
B. Fringe Benefits	<u>\$4,150.00</u>
C. Travel	<u>\$16,000.00</u>
D. Equipment	<u>\$0.00</u>
E. Supplies	<u>\$35,250.00</u>
F. Construction	<u>\$0.00</u>
G. Consultants/Contracts	<u>\$66,600.00</u>
H. Other	<u>\$0.00</u>
Total Direct Costs	<u>\$176,235.00</u>
I. Indirect Costs	<u>\$0.00</u>
TOTAL PROJECT COSTS	<u>\$176,235.00</u>

Federal Request	<u>\$176,235.00</u>
Non-Federal Amount	<u>\$0.00</u>



APPLICATION FOR FEDERAL ASSISTANCE

1. TYPE OF SUBMISSION: <i>Application</i> <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Non-Construction		<i>Preapplication</i> <input type="checkbox"/> Construction <input type="checkbox"/> Non-Construction		2. DATE SUBMITTED	Applicant Identifier	
3. DATE RECEIVED BY STATE		State Application Identifier		4. DATE RECEIVED BY FEDERAL AGENCY		Federal Identifier
5. APPLICANT INFORMATION						
Legal Name: Palm Beach County Sheriff's Office			Organizational Unit: Technical Services Division			
Address (give city, county, state, and zip code): 3228 Gun Club Road West Palm Beach, FL 33406			Name and telephone number of the person to be contacted on matters involving this application (give area code): Cecelia A. Crouse, Ph.D. 561-688-4226			
6. EMPLOYER IDENTIFICATION NUMBER (EIN): 5 9 - 6 0 0 0 7 8 6			7. TYPE OF APPLICANT: (enter appropriate letter in box) N			
8. TYPE OF APPLICATION: <input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation <input type="checkbox"/> Revision If Revision, enter appropriate letter(s) in box(es): A. Increase Award B. Decrease Award C. Increase Duration D. Decrease Duration Other (specify):			A. State H. Independent School Dist. B. County I. State Controlled Institution of Higher Learning C. Municipal J. Private University D. Township K. Indian Tribe E. Interstate L. Individual F. Intermunicipal M. Profit Organization G. Special District N. Other (Specify): Sheriff			
9. NAME OF FEDERAL AGENCY: National Institute of Justice, Office of Justice Programs			11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT: Palm Beach County Sheriff's Office Solving Cold Cases with DNA 2007			
10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER: 1 6 . 5 6 0		12. AREAS AFFECTED BY PROJECT (cities, counties, states, etc.): Palm Beach County, FL				
13. PROPOSED PROJECT: Start Date: 01/01/2008 Ending Date: 07/01/2009		14. CONGRESSIONAL DISTRICTS OF: a. Applicant: FL 16, 19, 22, 23 b. Project: FL 16, 19, 22, 23				
15. ESTIMATED FUNDING:		16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?				
a. Federal	\$ 176,235 .00	a. YES. THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON: DATE 05/14/2007				
b. Applicant	\$.00	b. NO. <input type="checkbox"/> PROGRAM IS NOT COVERED BY E.O. 12372 <input type="checkbox"/> OR PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW				
c. State	\$.00	17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT? <input type="checkbox"/> Yes If "Yes," attach an explanation. <input checked="" type="checkbox"/> No				
d. Local	\$.00					
e. Other	\$.00					
f. Program Income	\$.00					
g. TOTAL	\$ 176,235 .00					
18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION/PREAPPLICATION ARE TRUE AND CORRECT, THE DOCUMENT HAS BEEN DULY AUTHORIZED BY THE GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS AWARDED						
a. Typed Name of Authorized Representative Ric L. Bradshaw		b. Title Sheriff		c. Telephone number 561-688-3021		
d. Signature of Authorized Representative				e. Date Signed 5/10/07		

Previous Editions Not Usable



OMB APPROVAL NO. 1121-0140
EXPIRES 01/31/2006

STANDARD ASSURANCES

The Applicant hereby assures and certifies compliance with all applicable Federal statutes, regulations, policies, guidelines, and requirements, including OMB Circulars A-21, A-87, A-102, A-110, A-122, A-133; Ex. Order 12372 (intergovernmental review of federal programs); and 28 C.F.R. pts. 66 or 70 (administrative requirements for grants and cooperative agreements). The applicant also specifically assures and certifies that:

1. It has the legal authority to apply for federal assistance and the institutional, managerial, and financial capability (including funds sufficient to pay any required non-federal share of project cost) to ensure proper planning, management, and completion of the project described in this application.
2. It will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
3. It will give the awarding agency or the General Accounting Office, through any authorized representative, access to and the right to examine all paper or electronic records related to the financial assistance.
4. It will comply with all lawful requirements imposed by the awarding agency, specifically including any applicable regulations, such as 28 C.F.R. pts. 18, 22, 23, 30, 35, 38, 42, 61, and 63.
5. It will assist the awarding agency (if necessary) in assuring compliance with section 106 of the National Historic Preservation Act of 1966 (16 U.S.C. § 470), Ex. Order 11593 (identification and protection of historic properties), the Archeological and Historical Preservation Act of 1974 (16 U.S.C. § 469 a-1 et seq.), and the National Environmental Policy Act of 1969 (42 U.S.C. § 4321).
6. It will comply (and will require any subgrantees or contractors to comply) with any applicable statutorily-imposed nondiscrimination requirements, which may include the Omnibus Crime Control and Safe Streets Act of 1968 (42 U.S.C. § 3789d); the Victims of Crime Act (42 U.S.C. § 10604(e)); The Juvenile Justice and Delinquency Prevention Act of 2002 (42 U.S.C. § 5672(b)); the Civil Rights Act of 1964 (42 U.S.C. § 2000d); the Rehabilitation Act of 1973 (29 U.S.C. § 794); the Americans with Disabilities Act of 1990 (42 U.S.C. § 12131-34); the Education Amendments of 1972 (20 U.S.C. §§ 1681, 1683, 1685-86); and the Age Discrimination Act of 1975 (42 U.S.C. §§ 6101-07); *see* Ex. Order 13279 (equal protection of the laws for faith-based and community organizations).
7. If a governmental entity--
 - a) it will comply with the requirements of the Uniform Relocation Assistance and Real Property Acquisitions Act of 1970 (42 U.S.C. § 4601 et seq.), which govern the treatment of persons displaced as a result of federal and federally-assisted programs; and
 - b) it will comply with requirements of 5 U.S.C. §§ 1501-08 and §§ 7324-28, which limit certain political activities of State or local government employees whose principal employment is in connection with an activity financed in whole or in part by federal assistance.

Signature _____

5/9/07
Date _____

**CERTIFICATIONS REGARDING LOBBYING; DEBARMENT,
SUSPENSION AND OTHER RESPONSIBILITY MATTERS
AND
DRUG-FREE WORKPLACE REQUIREMENTS**

Applicants should refer to the regulations cited below to determine the certification to which they are required to attest. Applicants should also review the instructions for certification included in the regulations before completing this form. Signature of this form provides for compliance with certification requirements under 28 CFR Part 69, "New Restrictions on Lobbying" and 28 CFR Part 67, "Government-wide Debarment and Suspension (Non-procurement) and Government-wide Requirements for Drug-Free Workplace (Grants)." The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of Justice determines to award the covered transaction, grant, or cooperative agreement.

1. LOBBYING

As required by Section 1352, Title 31 of the U.S. Code, and implemented at 28 CFR Part 69, for persons entering into a grant or cooperative agreement over \$100,000, as defined at 28 CFR Part 69, the applicant certifies that:

- (a) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the making of any Federal grant, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal grant or cooperative agreement;
- (b) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal grant or cooperative agreement, the undersigned shall complete and submit Standard Form - LLL, "Disclosure of Lobbying Activities," in accordance with its instructions;
- (c) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subgrants, contracts under grants and cooperative agreements, and subcontracts) and that all sub-recipients shall certify and disclose accordingly.

2. DEBARMENT, SUSPENSION, AND OTHER RESPONSIBILITY MATTERS (DIRECT RECIPIENT)

As required by Executive Order 12549, Debarment and Suspension, and implemented at 28 CFR Part 67, for prospective participants in primary covered transactions, as defined at 28 CFR Part 67, Section 67.510

A. The applicant certifies that it and its principals:

(a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, sentenced to a denial of Federal benefits by a State or Federal court, or voluntarily excluded from covered transactions by any Federal department or agency;

(b) Have not within a three-year period preceding this application been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and (d) Have not within a three-year period preceding this application had one or more public transactions (Federal, State, or local) terminated for cause or default; and

B. Where the applicant is unable to certify to any of the statements in this certification, he or she shall attach an explanation to this application.

3. DRUG-FREE WORKPLACE (GRANTEES OTHER THAN INDIVIDUALS)

As required by the Drug-Free Workplace Act of 1988, and implemented at 28 CFR Part 67, Subpart F, for grantees, as defined at 28 CFR Part 67 Sections 67.615 and 67.620

A. The applicant certifies that it will or will continue to provide a drug-free workplace by:

(a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the grantee's workplace and specifying the actions that will be taken against employees for violation of such prohibition;

(b) Establishing an on-going drug-free awareness program to inform employees about

(1) The dangers of drug abuse in the workplace;

(2) The grantee's policy of maintaining a drug-free workplace;

(3) Any available drug counseling, rehabilitation, and employee assistance programs; and

(4) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;

(c) Making it a requirement that each employee to be engaged in the performance of the grant be given a copy of the statement required by paragraph (a);

(d) Notifying the employee in the statement required by paragraph (a) that, as a condition of employment under the grant, the employee will

(1) Abide by the terms of the statement; and

(2) Notify the employer in writing of his or her conviction for a violation of a criminal drug statute occurring in the workplace no later than five calendar days after such conviction;

(e) Notifying the agency, in writing, within 10 calendar days after receiving notice under subparagraph (d)(2) from an employee or otherwise receiving actual notice of such conviction. Employers of convicted employees must provide notice, including position title, to:

Department of Justice
Office of Justice Programs
ATTN: Control Desk
810 Seventh Street, N.W.,
Washington, D.C. 20531

Notice shall include the identification number(s) of each affected grant;

(f) Taking one of the following actions, within 30 calendar days of receiving notice under subparagraph (d)(2), with respect to any employee who is so convicted

(1) Taking appropriate personnel action against such an employee, up to and including termination, consistent with the requirements of the Rehabilitation Act of 1973, as amended; or

(2) Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency;

(g) Making a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs (a), (b), (c), (d), (e), and (f).

B. The grantee may insert in the space provided below the site(s) for the performance of work done in connection with the specific grant:

Place of Performance (Street address, city, county, state, zip code)

3228 Gun Club Road
West Palm Beach, FL 33406 Palm Beach County

Check ___ if there are workplaces on file that are not identified here.

Section 67, 630 of the regulations provides that a grantee that is a State may elect to make one certification in each Federal fiscal year. A copy of which should be included with each application for Department of Justice funding. States and State agencies may elect to use OJP Form 4061/7.

Check ___ If the State has elected to complete OJP Form 4061/7.

DRUG-FREE WORKPLACE (GRANTEES WHO ARE INDIVIDUALS)

As required by the Drug-Free Workplace Act of 1988, and implemented at 28 CFR Part 67, Subpart F, for grantees, as defined at 28 CFR Part 67; Sections 67.615 and 67.620

A. As a condition of the grant, I certify that I will not engage in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance in conducting any activity with the grant; and

B. If convicted of a criminal drug offense resulting from a violation occurring during the conduct of any grant activity, I will report the conviction, in writing, within 10 calendar days of the conviction, to:

Department of Justice
Office of Justice Programs
ATTN: Control Desk
810 Seventh Street, N.W.,
Washington, D.C. 20531

As the duly authorized representative of the applicant, I hereby certify that the applicant will comply with the above certifications.

1. Grantee Name and Address:

Palm Beach County Sheriff's Office

3228 Gun Club Road
West Palm Beach, FL 33406

2. Application Number and/or Project Name:

Solving Cold Cases with DNA 2007 - Palm Beach County Sheriff's

3. Grantee IRS/Vendor Number 59-6000786

4. Type/Print Name and Title of Authorized Representative

Ric L. Bradshaw, Sheriff, Palm Beach County, FL

5. Signature

6. Date

5/4/07

OJP FORM 4061/6 (3-91) REPLACES OJP FORMS 4061/2, 4061/3 AND 4061/4 WHICH ARE OBSOLETE.
OFFICE OF JUSTICE PROGRAMS BJA NIJ OJJDP BJS OVC

**Protection of Human Subjects
Assurance Identification/IRB Certification/Declaration of Exemption
(Common Rule)**

Policy: Research activities involving human subjects may not be conducted or supported by the Departments and Agencies adopting the Common Rule (56FR28003, June 18, 1991) unless the activities are exempt from or approved in accordance with the Common Rule. See section 101(b) of the Common Rule for exemptions. Institutions submitting applications or proposals for support must submit certification of appropriate Institutional Review Board (IRB) review and approval to the Department or Agency in accordance with the Common Rule.

Institutions must have an assurance of compliance that applies to the research to be conducted and should submit certification of IRB review and approval with each application or proposal unless otherwise advised by the Department or Agency.

1. Request Type <input type="checkbox"/> ORIGINAL <input type="checkbox"/> CONTINUATION <input checked="" type="checkbox"/> EXEMPTION	2. Type of Mechanism <input checked="" type="checkbox"/> GRANT <input type="checkbox"/> CONTRACT <input type="checkbox"/> FELLOWSHIP <input type="checkbox"/> COOPERATIVE AGREEMENT <input type="checkbox"/> OTHER: _____	3. Name of Federal Department or Agency and, if known, Application or Proposal Identification No. National Institute of Justice 16.560
4. Title of Application or Activity Solving Cold Cases with DNA Palm Beach County SO, FL		5. Name of Principal Investigator, Program Director, Fellow, or Other Cecelia A. Crouse, Ph.D.

6. Assurance Status of this Project (Respond to one of the following)

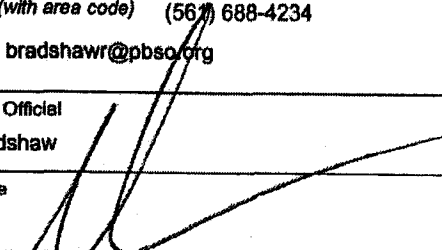
- This Assurance, on file with Department of Health and Human Services, covers this activity:
Assurance Identification No. _____, the expiration date _____ IRB Registration No. _____
- This Assurance, on file with (agency/dept) _____, covers this activity.
Assurance No. _____, the expiration date _____ IRB Registration/Identification No. _____ (if applicable)
- No assurance has been filed for this institution. This institution declares that it will provide an Assurance and Certification of IRB review and approval upon request.
- Exemption Status: Human subjects are involved, but this activity qualifies for exemption under Section 101(b), paragraph _____.

7. Certification of IRB Review (Respond to one of the following IF you have an Assurance on file)

- This activity has been reviewed and approved by the IRB in accordance with the Common Rule and any other governing regulations.
by: Full IRB Review on (date of IRB meeting) _____ or Expedited Review on (date) _____
 If less than one year approval, provide expiration date _____
- This activity contains multiple projects, some of which have not been reviewed. The IRB has granted approval on condition that all projects covered by the Common Rule will be reviewed and approved before they are initiated and that appropriate further certification will be submitted.

8. Comments

No human subjects/participants will be tested as a result of this award.

9. The official signing below certifies that the information provided above is correct and that, as required, future reviews will be performed until study closure and certification will be provided.	10. Name and Address of Institution Palm Beach County Sheriff's Office 3228 Gun Club Road West Palm Beach, FL
11. Phone No. (with area code) (561) 688-3021	15. Title Sheriff, Palm Beach County, FL
12. Fax No. (with area code) (561) 688-4234	
13. Email: bradshawr@pbso.org	
14. Name of Official Ric L. Bradshaw	17. Date 5/9/07
16. Signature 	Sponsored by HHS

Authorized for local reproduction

Public reporting burden for this collection of information is estimated to average less than an hour per response. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to: OS Reports Clearance Officer, Room 503 200 Independence Avenue, SW., Washington, DC 20201. Do not return the completed form to this address.

**PALM BEACH COUNTY
SHERIFF'S OFFICE**

RIC L. BRADSHAW, SHERIFF



Privacy Certificate

Grantee¹, Palm Beach County Sheriff's Office certifies that data *identifiable to a private person*² will not be used or revealed, except as authorized in 28 CFR Part 22, Sections 22.21 & 22.22.

Brief Description of Project (required by 28 CFR §22.23(b): The Palm Beach County Sheriff's Office Technical Services Division, DNA Laboratory (PBSO) is requesting grant monies associated with the Solving Cold Cases with DNA FY 2007 grant in order to provide funding for research and laboratory analysis of cold cases identified by the PBSO Violent Crime and Special Investigations Divisions.

No data identifiable to a private person will be collected .

Grantee certifies that any private person from whom identifiable information is collected or obtained shall be notified, in accordance with 28 CFR §22.27, that such data will only be used or revealed for research or statistical purposes and that compliance with the request for information is not mandatory and participation in the project maybe terminated at any time. In addition, grantee certifies that where findings in a project cannot, by virtue of sample size or uniqueness of subject, be expected to totally conceal the identity of an individual, such individual shall be so advised.

Procedures to notify subjects that such data will only be used or revealed for research or statistical purposes and that compliance with the request for information is not mandatory and participation in the project maybe terminated at any time as required by 28 CFR §22.23(b)(4):

Not Applicable since no data identifiable to a private person will be collected.

If notification of subjects is to be waived, pursuant to 28 CFR §22.27(c), please provide a justification: Not Applicable since no data identifiable to a private person will be collected.

Grantee certifies that project plans will be designed to preserve the confidentiality of private persons to whom information relates, including where appropriate, name-stripping, coding of data, or other similar procedures.

Procedures developed to preserve the confidentiality of personally identifiable information, as required by 28 CFR §22.23(b)(7): Not Applicable

Grantee certifies that, if applicable, a log will be maintained indicating that (1) identifiable data have been transferred to persons other than employees of NIJ, BJA, BJS, OJJDP, Not Applicable since no data identifiable to a private person will be collected

OVC, OJP, or grantee/contractor/subcontractor staff; and (2) such data have been returned or that alternative arrangements have been agreed upon for future maintenance of such data, in accordance with 28 CFR §22.23(b)(6).

Justification for the collection and/or maintenance of any data in identifiable form, if applicable: Not Applicable since no data identifiable to a private person will be collected

Procedures for data storage, as required by 28 CFR §22.23(b)(5): Not Applicable since no data identifiable to a private person will be collected

Grantee certifies that all contractors, subcontractors, and consultants requiring access to identifiable data will agree, through conditions in their subcontract or consultant agreement, to comply with the requirements of 28 CFR §22.24, regarding information transfer agreements. Grantee also certifies that NIJ will be provided with copies of any and all transfer agreements before they are executed as well as the name and title of the individual(s) with the authority to transfer data.

Description of any institutional limitations or restrictions on the transfer of data in identifiable form, if applicable: Not Applicable since no data identifiable to a private person will be collected

Name and title of individual with the authority to transfer data: Not Applicable since no data identifiable to a private person will be collected

Grantee certifies that access to the data will be limited to those employees having a need for such data and that such employees shall be advised of and agree in writing to comply with the regulations in 28 CFR Part 22. Not Applicable since no data identifiable to a private person will be collected

Grantee certifies that all project personnel, including subcontractors, have been advised of and have agreed, in writing, to comply with all procedures to protect privacy and the confidentiality of personally identifiable information.

Access to data is restricted to the following individuals, as required by 28 CFR

§22.23(b)(2): Not Applicable since no data identifiable to a private person will be collected

Principal Investigator(s): Not Applicable since no data identifiable to a private person will be collected

Project Staff: Not Applicable since no data identifiable to a private person will be collected

Contractors, Subcontractors, and/or Consultants: Not Applicable since no data identifiable to a private person will be collected

Grantee certifies that adequate precautions will be taken to ensure administrative and physical security of identifiable data and to preserve the confidentiality of the personally identifiable information.

Procedures to insure the physical and administrative security of data, as required by 28 CFR

§22.25(b), including, if applicable, a description of those procedures used to secure a name

index: Not Applicable since no data identifiable to a private person will be collected

Procedures for the final disposition of data, as required by 28 CFR §22.25: Not Applicable since no data identifiable to a private person will be collected
Name and title of individual authorized to determine the final disposition of data: Not Applicable since no data identifiable to a private person will be collected

Grantee certifies that copies of all questionnaires, informed consent forms and informed consent procedures designed for use in the project are attached to this Privacy Certificate. Not Applicable since no data identifiable to a private person will be collected


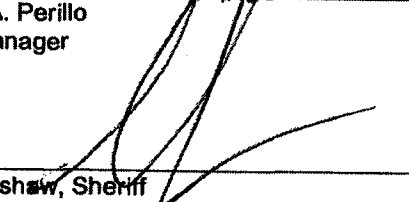
Grantee certifies that project findings and reports prepared for dissemination will not contain information which can reasonably be expected to be identifiable to a private person, except as authorized by 28 CFR §22.22. Not Applicable since no data identifiable to a private person will be collected

Grantee certifies that the procedures described above are correct and shall be carried out. Not Applicable since no data identifiable to a private person will be collected

Grantee certifies that the project will be conducted in accordance with all the requirements of the Omnibus Crime Control and Safe Streets Act of 1968 as amended and the regulations contained in 28 CFR Part 22. Not Applicable since no data identifiable to a private person will be collected

Grantee certifies that NIJ shall be notified of any material change in any of the information provided in this Privacy Certificate. Not Applicable since no data identifiable to a private person will be collected

Signature(s):

Benjamin A. Perillo
Division Manager

5/9/07
Date

Ric L. Bradshaw, Sheriff
Palm Beach County, FL

5/9/07
Date