

**VCU Department of Forensic Science Faculty and Graduate Student  
Presentations and Publications**

**2007-2008**

**Publications**

*Gambrel AK*, Reardon MR. (2008). Extraction, derivatization, and analysis of vegetable oils from fire debris. *Journal of Forensic Sciences* 53(6):1372-80.

**Greenspoon SA**, Yeung SHI, *Johnson K*, Chu WK, Rhee HN, McGuckian A, Crouse C, Chiesl TN, Barron AE, Scherer J, Ban JD, and Mathies R. (2008) A Forensic Lab Tests the Berkeley Microfabricated Capillary Array Electrophoresis Device. *Journal of Forensic Science* 53(4):828-37.

Horsman-Hall KM, *SL Karzynski*, *Y Orihuela*, **AL Davis**, **SA Greenspoon**, and JD Ban. (2008) Developing STR Profiles from Fired Cartridge Cases Using the AmpF $\phi$ STR MiniFiler™ PCR Amplification Kit". *Applied Biosystems Forensic News Customer Corner* February, 2008.

**Miller, MT**. "Eyewitnesses, Physical Evidence and Forensic Science: A Case Study of State of North Carolina v. James Alan Gell". *Victims and Offenders*, 3, 2008, 142-149.

**Poklis A**. (2007) Chapter 32 in Casarett and Doull's Toxicology: The Basic Science of Poisons, 7th ed. C. D. Klassen, M. Amdur and J. Doull, eds, McGraw Hill, New York, pp. 1089-1108.

*Tidrick JM*, **AL Davis**, and SA Glass. (2008) The Significance of Bunter Toolmark Association in a Limited Geographic Area". *AFTE Journal* 40(3):275-289.

Wiggins K, **Davis E**, *C Schennum*, and P Drummond. (2008) An Investigation Into Fibre Variation Across Garments. *Global Forensic Science Today* 6:2-16.

**Talks**

*MJ Bennett (speaker)* and **RR Steiner**. "Detection of GHB in Various Drink Matrices via AccuTOF-DART." 2008 American Academy of Forensic Sciences Meeting, February 2008.

*MD Bonnette (speaker)*, DN Rodier, *KL Brown*, MB Trevino, *JR Champagne*, and **T Dawson Cruz**. "Primer Modifications for the Improvement of Degenerate Oligonucleotide Primed PCR-Based Whole Genome Amplification from Limited Quantities of DNA." 2008 American Academy of Forensic Sciences Meeting, February 2008.

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*KL Brown (speaker), CP Davis, MJ Illescas, VR Pavlova, T Dawson Cruz.* "[An Evaluation of dcDOP-PCR for the Analysis of Mock and Non-Probative Casework Samples](#)". Mid-Atlantic Association of Forensic Scientists, 2008 Annual Meeting. Huntington, WV. April, 2008.

**S Greenspoon** and KM Horsman (*speaker*). "Application of the MiniFiler Kit to the Analysis of Notoriously Problematic Evidence: Degraded Casework Samples, Fired Cartridge Casings, Telogen Hairs." 2008 American Academy of Forensic Sciences Meeting, February 2008.

**SA Greenspoon** (*speaker*), *R Bohr, A Pittock, J Grubb, KM Horsman, and JD Ban.* "Predicting the success of STR typing using the Plexor® HY System and extraction of mock cases using the Differex™ System". Promega Corporation's 18<sup>th</sup> International Symposium on Human Identification, Hollywood, CA. October, 2007.

**S Greenspoon** (*speaker*) and RA Mathies. "A Forensic Laboratory Tests the Berkeley Microfabricated Capillary Array Electrophoresis Device." 2008 American Academy of Forensic Sciences Meeting, February 2008.

**SA Greenspoon** (*speaker*), *R Bohr, A Pittock, K Horsman-Hall, E Jacob, and JD Ban.* "Integrating the Plexor® System into the Flow of Casework Analysis". First Annual Technological Advances in Human Identification Conference, Hampton, VA. 2008.

*KM Horsman (speaker), SA Karczynski, Y Orihuela, JA Richards, AL Davis, SA Greenspoon,* and JD Ban. "Application of the MiniFiler™ Kit to the Analysis of Notoriously Problematic Evidence: Degraded Casework Samples, Fired Cartridge Casings, Bones and Telogen-Phase Hairs". 2008 American Academy of Forensic Sciences Meeting, February 2008.

*SL Karczynski (speaker).* "Developing STR Profiles from Fired Cartridge Cases using the AmpFISTR® MiniFiler™ PCR Amplification Kit." 2008 American Academy of Forensic Sciences Meeting, February 2008.

*Monteran R (speaker), Wolf CE, Backer R, and Poklis A.* "Evaluation of the Lin-Zhi International Propoxyphene Enzyme Immunoassay for the Detection of Propoxyphene and Norpropoxyphene in Urine". Society of Forensic Toxicologists Meeting. Durham, NC. October, 2007.

*VR Pavlova (speaker), KL Brown, LP Thompson, T Dawson Cruz.* "[Degenerate Oligonucleotide Primed-PCR with Taq/Proofreading Enzyme Combinations for Forensic DNA Analysis](#)". Mid-Atlantic Association of Forensic Scientists, 2008 Annual Meeting. Huntington, WV. April, 2008.

**A Poklis** (*speaker*). "Medical Devices Used in Pain Management Therapy." 2008 American Academy of Forensic Sciences Meeting, February 2008.

## VCU Department of Forensic Science Faculty and Graduate Student Presentations and Publications

*LM Schwenk (speaker)* and M.R. Reardon. "Practical Aspects of Analyzing Vegetable Oils in Fire Debris." 2008 American Academy of Forensic Sciences Meeting, February 2008.

**Wolf CE (speaker)**, Rose SR, and **Poklis A.** "Case Report: The Use of the Herbicide Diquat and its possible involvement in a poisoning". Society of Forensic Toxicologists Meeting. Durham, NC. October, 2007.

**Wolf CE (speaker)**, Whitlow KS, and **Poklis A.** Determination of Guanfacine (Tenex) in a Case of Munchhausen by Proxy. American Academy of Forensic Sciences 60<sup>th</sup> Annual Meeting. Washington DC. February, 2008

### Workshops

**P Marone (speaker)**. "Report Writing Standards Which Conforms to ISO 17025 and ASCLD/LAB International Supplemental Requirements for Accreditation and How to Address Context Effect and Confirmational Bias as the Director of a Laboratory System." 2008 American Academy of Forensic Sciences Meeting, February 2008.

**A Poklis (speaker)**. "Postmortem Forensic Toxicology." 2008 American Academy of Forensic Sciences Meeting, February 2008.

**Wolf CE.** Workshop: Co-Chairman and Presenter, Overview and Review of Forensic Toxicology. Society of Forensic Toxicologists Meeting. Phoenix, AZ. October 2008.

### Posters

*KL Brown (presenter)*, **SJ Seashols (presenter)**, MT Hicken, AT Geronimus, and **T Dawson Cruz.** "Optimization and Validation of an Assay for the Determination of Telomere Length Using the ABI Prism 7500 Real-Time PCR Instrument." 2008 American Academy of Forensic Sciences Meeting, February 2008.

*KL Brown (presenter)*, **SJ Seashols**, M Hicken, AT Geronimus, **T Dawson Cruz.** "[Determination of Telomere Length using the ABI Prism 7500 Real-Time PCR Instrument](#)". Mid-Atlantic Association of Forensic Scientists, 2008 Annual Meeting. Huntington, WV. April, 2008.

**Greenspoon SA (presenter)**, Yeung SHI, *Johnson K*, Chu EM, Rhee HN, McGuckian AB, Crouse CA, Chiesl TN, Barron AE, Scherer JR, Ban JD and Mathies RA. "Testing a Microfabricated Capillary Array Electrophoresis Device in a Forensic Laboratory". Promega Corporation's 18<sup>th</sup> International Symposium on Human Identification, Hollywood, CA. October, 2007.

**VCU Department of Forensic Science Faculty and Graduate Student  
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BK Guckert (*presenter*), RC Backer, **CE Wolf**, and **A Poklis**. "Evaluation of the Lin-Zhi International Benzodiazepine Enzyme Immunoassay for the Detection of Benzodiazepines and Their Metabolites in Urine." 2008 American Academy of Forensic Sciences Meeting, February 2008.

*AM Halphen (presenter)*, CR Crooks, **MR Peace**, and **A Poklis**. "A Method for the Determination of Amphetamines and Methylenedioxyamphetamines in Oral Fluid by Gas Chromatography/Mass Spectrometry." 2008 American Academy of Forensic Sciences Meeting, February 2008.

*JK Harris (presenter)*. "Differentiation Between Fine Spatter Stains and Small Contact Stains on Fabric." 2008 American Academy of Forensic Sciences Meeting, February 2008.

*E Jacob (presenter)*. "Alternative Approaches to the Tissue Grinding Technique for Extraction of Mitochondrial DNA from Hair Shafts." 2008 American Academy of Forensic Sciences Meeting, February 2008.

*C Kilcoin (presenter)*. "Method Validation Performed on the Analysis of Vegetable Oils for Identification and Classification Purposes and Examination of Oil-Based Cosmetics." 2008 American Academy of Forensic Sciences Meeting, February 2008.

VR Pavlova (*presenter*), *KL Brown*, LP Thompson, and **T Dawson Cruz**. "Optimization of Degenerate Oligonucleotide Primed-Polymerase Chain Reaction for Forensic DNA Analysis Using Taq/Proofreading Enzyme Combinations." 2008 American Academy of Forensic Sciences Meeting, February 2008.

J Poklis (*presenter*), BK Guckert, **CE Wolf**, and **A Poklis**. "Evaluation of the Lin-Zhi International Phencyclidine Enzyme Immunoassay for the Detection of Phencyclidine in Urine." 2008 American Academy of Forensic Sciences Meeting, February 2008.