

KENNETH G. FURTON

Provost and Executive Vice President, Chief Operating Officer, Florida International University, PC 526, Miami, Florida 33199; Tel: 305-348-2151; Fax 305-348-2994;
furtonk@fiu.edu

EDUCATION

- 1986-1988 Swansea University (Prifysgol Abertawe), Swansea, Wales, U.K.
Postdoctoral Research Associate (Nuclear Chemistry)
- 1983-1986 Wayne State University, Detroit, MI
Ph.D. in Chemistry (Analytical) with a minor in Biology
- 1980-1983 University of Central Florida, Orlando, FL
B.S. in Forensic Science with a minor in Chemistry

EXPERIENCE

- 2014-present Provost and Executive Vice President, COO, Florida International University, Miami, FL
- 2007-2014 Dean, College of Arts & Sciences, Florida International University, Miami, FL
- 2008-present Director Emeritus, International Forensic Research Institute, FIU, Miami, FL
- 2004-2007 Associate Dean for Budget, Facilities and Research, College of Arts & Sciences, FIU, Miami, FL
- 2001-2004 Associate Dean, Budget & Facilities, College of Arts & Sciences, FIU, Miami, FL
- 2005-2007 Co-Director and Director of Strategic Planning and Research, IFRI, FIU, Miami, FL
- 1997-2005 Founding Director, International Forensic Research Institute (IFRI), Miami, FL
- 1996-2003 Founding Director, FIU Forensic Science Certificate Program
- 1988-2003 Director, Criminalistics Chemistry Program, FIU, Miami, FL
- 2001-present Professor, Department of Chemistry and Biochemistry, FIU, Miami, FL
- 1997-2001 Chair, Department of Chemistry, Florida International University FIU, Miami, FL
- 1993-2001 Associate Professor of Chemistry, Department of Chemistry, FIU, Miami, FL
- 1994-1997 Graduate Program Director, Department of Chemistry, FIU, Miami, FL
- 1988-1993 Assistant Professor of Chemistry, Department of Chemistry, FIU, Miami, FL
- 1989-1995 Adjunct Professor, Department of Marine and Atmospheric Chemistry

- University of Miami-RSMAS, Miami, FL
- 1986-1988 Lecturer, Senior Research Assistant, Chemistry Department, University of Wales, Swansea, U.K.
Postdoctoral Research Assistant, British Nuclear Fuels (BNFL), Sellafield, U.K.
- 1983-1986 Graduate Research/Teaching Assistant, Department of Chemistry
Wayne State University, Detroit, MI
- 1985-1986 Research Consultant, Departments of Pharmacology and Pathology
Wayne State University Medical School, Detroit, MI
- 1983 Forensic Science Intern, Chemical Analysis Unit
Crime Laboratory, Detroit Police Headquarters, Detroit, MI
- 1981-1983 Student Escort/Patrolman, University of Central Florida Police Department
Lab/Research Assistant, UCF Chemistry Department, Orlando, FL

MEMBERSHIP IN PROFESSIONAL SOCIETIES

Academy of Science, Engineering and Medicine, elected member 2020
National Academy of Inventors Fellow 2016
American Chemical Society - Past Chairman, South Florida Section 1993-94
American Academy of Forensic Sciences, Elected Fellow
American Society of Crime Laboratory Directors, Academic Affiliate

AWARDS AND HONORS

2012 Selected as a Charter Member of FIU Chapter of the National Academy of Inventors
2011 Appreciation Award as judge of Eukanuba 1st Police & Military Detection K9 Competition
2010 Elected as a Member of Phi Beta Kappa
2009 Lifetime Brotherhood Award, Pi-Phi Zeta of Lambda Chi Alpha (founding advisor)
2008 Selected as one of 12 members of U.S.-China NSF Delegation of Science Deans
2008 Collegian Award, Wayne State University
2006 Appreciation Award for Outstanding Contributions to the Ronald E. McNair Program
2005 FIU President's Council Outstanding University Professor Award
2004 Appreciation Award from Florida Highway Patrol Academy
2003 Recognition of Commitment and Service Award to the ACS Project SEED Program
2003 National Academy of Sciences Panel Invitee "Biotechnology Applications for
Improving the Detection Capabilities of Canines"
2002 Pacific Northwest Police Detector Dog Association Appreciation Award
2001 Special Achievement Award (for 11 years of service to FIU Libraries)
2001 U.S. State Department/Metro-Dade K9 Training Center Appreciation Award
2001 FIU Foundation Excellence in Service Award
1999 Florida SUS Board of Regents Teaching Incentive Program Award
1999 FIU Faculty Senate Service Award (For Service on Research I Task Force)
1998, 99 FIU Faculty Senate Service Award (For Service as Chair of Univ. Library Cmt.)
1997 California Narcotic Canine Association (CNCA) Appreciation Award
1996 International Association of Forensic Sciences Young Investigators' Award

- 1996 FIU Foundation Excellence in Teaching Award
- 1993 FIU Foundation Excellence in Research Award
- 1986 David F. Boltz Award in Analytical Chemistry
- 1985 Thomas C. Rumble University Graduate Fellow
- 1984 Phi Lambda Upsilon (National Honorary Chemical Society)

FIU SERVICE (to the University)

- 2014-present Provost and Executive Vice President, Chief Operating Officer of Florida International University. Responsible for the oversight of the University's curricular, instructional and research affairs. Oversee the way FIU creates, disseminates and certifies knowledge. Manage the Universities 11 academic colleges, 1600 faculty and over 5000 staff with an annual budget in excess of \$1 Billion.
- 2016-present Chair of the Council of Academic Vice Presidents (CAVP). Represent the Provosts of the 12 State University System of Florida Universities including overseeing regular meetings and providing updates on council activities and issues at the Florida Board of Governors meetings
- 2015-present CAVP liaison for the common LMS initiative. Lead task force for the College Association of Vice Presidents in selecting a common Learning Management System for the entire Florida State University System comprised of 12 state Universities.
- 2007-2014 Dean, College of Arts and Sciences
Academic leader of the College of Arts & Sciences, the oldest and largest College at Florida International University. Oversee and manage the College's 16 academic departments, 66 centers and programs and over 1,000 faculty and staff, housed within three thematic schools. With an annual budget of over \$100 million and an enrollment of over 25,000, representing nearly half the student body at FIU, the College plays a vital role in developing students into engaged global citizens dedicated to life-long learning. Since 2007, the College has raised over \$42 million in philanthropic gifts and increased its research grants from \$27 million to over \$60 million in 2013.
- 2009-present Successfully led the searches for FIU executive positions including the Dean of Hospitality and Tourism Management, the Dean of Journalism and Mass Communication, the Executive Director of Alumni Relations and the Dean of Libraries.
- 2009-present Team Leader, APLU's Science and Math Teacher Imperative Leadership Collaborative Liaison for FIU in the Association of Public and Land Grant Institution's Science and Math Teachers Imperative. One of 26 APLU universities chosen nationwide to participate in the 123 universities accepting responsibility and leadership to produce more and better math and science teachers.
- 2012-present Board of Directors, FIU Foundation
FIU representative appointed by the President. Florida International University Foundation, Inc. (FIU Foundation) was established in 1969 to encourage, solicit, receive and administer gifts for scientific, educational and charitable purposes for the advancement of Florida International University and its objectives.
- 2008-present Board of Directors, FIU Research Foundation

Dean representative appointed by the President of FIU. Established in 1997, the role of the FIU Research Foundation includes promoting, encouraging, and assisting the research and training activities of faculty, staff, and students of FIU through income from contracts, grants, and other sources, such as income derived from or related to the development and commercialization of University work products.

- 2008-present Member, FIU Operations Committee
Elected by fellow Deans as Dean's representative to the University Operations Committee composed of Provost and Vice Presidents
- 2009 Member, Presidential Advisory Search Committee
Committee responsible for providing the FIU Board of Trustees' Presidential Search Committee with insight and recommendations regarding the selection of the fifth president of FIU. Mark B. Rosenberg was selected as FIU President on April 25, 2009.
- 2004-2007 Associate Dean of Budget, Facilities and Research, College of Arts & Sciences
The mission of the Office of Research at the College of Arts and Sciences is to meet the administrative needs of the College's research community including helping to identify, obtain, and administer external research funds (current total C&G annual budget of approximately \$30M). Staff includes an Assistant Director of Research, a grant specialist, a financial manager and an office assistant. The Office of Research also coordinates with accountants in departments and Centers and Institutes where Arts & Sciences faculty are affiliated. Also oversee and have signature authority on all College E&G accounts (approximately \$57M), foundation accounts (approximately \$10M) and auxiliary accounts (approximately \$5M).
- 2001-2004 Associate Dean, College of Arts & Sciences Office of Budget and Facilities
The areas of responsibility for this office include all issues of college budget planning and management (current total E&G annual budget of approximately \$57M) as well as current space allocations/maintenance and future space and emergency planning. This office coordinates facilities management and inventory, faculty contracts and adjunct contracts. In addition, the office works with most of the staff and administrators in the College on issues including enrollment and adjunct budgets, C&G and Recharge Center funds, Graduate Stipends and Assistantships, private funding, and staffing and salary models. Budget office staff includes a budget coordinator, two accountants, a senior secretary and a coordinator of administrative services. Outreach and On-line program staff includes a Director and a program assistant.
- 2005-2007 Co-Director, International Forensic Research Institute (IFRI)
Director of Strategic Planning and Research, International Forensic Research Institute (IFRI).
- 1997-2005 Director, International Forensic Research Institute (IFRI)
Founding director of State University System Board of Regents Type II Center. IFRI was the first academic Forensic Center approved by the State in 1997. IFRI houses the first State approved M.S. program in Forensic Science started in 1998 and coordinates a novel Ph.D. program since 2004. FIU was one of the first 5 forensic science programs in the country accredited by the American Academy of Forensic Sciences.
- 1997-2004 Director, FIU Forensic Science Certificate Program
Founding director of FIU's undergraduate Certificate in Forensic Science.

- 2004-present Committee member, FIU Forensic Science Certificate Program
- 2005 Member, Search and Screen Committee for Director of Academic Space
- 2007-present Member, Academic Health Sciences Center Master Plan Executive Committee
- 2006-present Member, Disaster Resistant University (DRU) Advisory Council
Committee charged with developing a comprehensive DRU Hazard Mitigation Plan based on an assessment of the risks, vulnerabilities and the priorities of FIU. Funded by FEMA, the plan is intended to increase FIU's eligibility for future funding and reduce the impact of hazards the University may face.
- 2006-2008 Member, Intellectual Property Advisory Committee
Committee charged with reviewing invention disclosures and pertinent background information, and advising on patenting scientific and commercialization concerns.
- 2005-present Member, Dissertation Year Fellowship and Presidential Awards Evaluation Committee
Committee charged with evaluating applications for University Dissertation Year Fellowship and Presidential Awards
- 2005-present Member, Cyberbridges Advisory Committee
Committee charged with evaluating proposals for graduate fellowships integrating Cyber-Infrastructure including high-performance networking and grid computing into science and engineering projects.
- 2005-2007 Member, FIU On-Line Task Force
Committee charged with evaluating the current on-line courses and programs at FIU and developing a strategic plan for the future of on-line learning at FIU.
- 2004-2006 Member, FIU Marketing Task Force
Committee charged with development and implementation of institutional marketing and branding campaign.
- 2004-2005 Member, Sponsored Research Management Council
The purposes of this Council are to establish policies and procedures for sponsored research and to discuss and find solutions to issues connected with submission and management of sponsored projects.
- 2004-2005 Member, FIU Centers & Institutes Work Group
Committee charged with recommending improvements in grouping of centers and policies and procedures.
- 2004-2005 Member, FIU Continuing Education Policy and Procedures Review Task Force
Charged with reviewing all policies and charging practices related to continuing off campus credit/non-credit programs
- 2002-2003 Member, FIU Medical School Task Force
Represented A&S along with Kelsey Downum at meetings of the Medical School Task Force co-chaired by T. Breslin and R. Berkman.

- 2004-2005 Member, Research Libraries Planning Group
Charged with detailing the components needed to implement the research library mission.
- 2002-2003 Member, Building Planning Committee.
Consisting of Deans of CHUA, Architecture and Arts & Sciences to discussions solutions to recurring problems with construction of new buildings.
- 2002-2003 Member, Cross-functional action planning committee on Financial Infrastructure
- 2006-present High Pi, Colony 330, Lambda Chi Alpha Fraternity at FIU
Successful colonization of Pi Phi Zeta (chapter) chartered on April 21 2007
- 2004-present Member, Alumni Advisory Board, Lambda Chi Alpha Colony at FIU
- 2001 Founding Faculty Advisor, Lambda Chi Alpha Fraternity at FIU - Colony 330
- 2001-2008 Library Committee A&S Dean's Office Representative
- 1997-2001 Member, AMSF University Advisory Committee
- 2000-2002 Member, Faculty Advisory Board, FIU College of Law
- 2000-2001 Member, Information Ecology Committee
Examined our changing information ecology at FIU and proposed strategies and action steps to reduce the "distance" between the libraries and the student user.
- 2000 Author of Faculty Senate Report on the Impact of the FIU Law School on the Library
- 96-98, 00-01 Senator representing the College of Arts & Sciences, FIU Faculty Senate
- 1996-2001 Chair, Faculty Senate Library and Media Committee
- 1998-2000 Chair, SACS Self-Study Library, IS & IT Committee (Library, Instructional Support & Information Technology Resources and Systems)
- 1999 Co-author of the "Makemson-Furton Report" to the Faculty Senate on the analysis of the termination of the Department of Medical Laboratory Sciences
- 1999 Helped select and hosted USF consultant reviewing the Department of Medical Laboratory Sciences and possible restructuring of the program
- 1995-1996 Mentor for the Florida-Georgia Alliance for Minority Participation (FGAMP) in Science, Engineering and Mathematics Scholarship Program at FIU
- 1991-1993 University Library ILL Committee
- 1988-1989 University Committee on New Faculty Orientation

FIU SERVICE (to the College)

- 2000-2001 Member, College of Arts & Sciences Technology Advisory Group
- 1990-2002 Chair, College of Arts & Sciences Library and Media Committee
- 1997 FIU Presidential Quality Improvement Program (QIP) Award, \$500,000 to set-up Advanced Mass Spectrometry Facility (AMSF). Prepared winning proposal and presentation with R. Jaffe and the support of the Dean's office.
- 1994 Teaching Incentive Program (TIP) Committee Member
- 91-92, 94-95 FIU College of Arts & Sciences Procedural Committee

FIU SERVICE (to the Department)

- 2003-2004 Member, Forensic Scientist Search Committee
- 2002-2003 Chair, Forensic Chemist Lecturer Search Committee
- 1998-present Forensic Science M.S. Graduate Committee Member
- 1990-2004 Chemistry Department Graduate Committee Member
- 1988-2003 Director, Criminalistics Chemistry Program
- 1997-2001 Chair, Department of Chemistry
- 1997-2001 Member, AMSF Technical Committee
- 1988-2001 Library Committee Department Representative (/alternate), Chemistry Department
- 1997-1998 Member, Chemistry Department Lab/Space Oversight Committee
- 1996-1998 Chair, Analytical Chemist Search Committee
- 1988-93,97-98 Faculty Advisor, FIU Chapter, ACS Student Affiliates
Named "Commendable" Chapter '92/'93; "Outstanding" ACS Chapter '97/'98
- 1993-1997 Faculty Co-Advisor, FIU ACS Student Affiliates Chapter
Named Outstanding" ACS Chapter '93/'94, '94/'95, '95/'96, '96/'97
- 1996-1997 Member, SERP/Chemistry Search & Screen Committee (2 half-lines filled)
- 1996-1997 Member, Chemistry Department By-laws Committee
- 1996-1997 Chair, Chemistry Department Differential Assignment Committee
- 1994-1997 Director, Chemistry Department Graduate Program

- 1993-1996 Joint FAU/FIU Chemistry Ph.D. Proposal Committee
- 1993-1994 Chair, Chemistry Department Budget Committee
- 1992-1994 Chair, Chemistry Ph.D. Proposal Committee
- 1992-1995 Laboratory Oversight Committee
- 1988-1996 Chemistry Department Budget Committee Member
- 1989-1991 Chair, Environmental Chemist Search Committee

PROFESSIONAL SERVICE (to Associations/Societies)

- 2003 Invited Attendee of the National Academy of Sciences Group on Terrorism and Canine Detection. Workshop on "Biotechnology Applications for Improving the Detection Capabilities of Canines" held March 18-19, 2003 in Washington, DC.
- 1999-present Elected Board Member of the California Narcotic Canine Association (CNCA) including writing science columns for association newsletters.
- 1998-present Coordinator, IFRI/NFSTC Florida Statewide Detector Dog Trainer and Team Certification Program. Certified more than 100 Drug and Explosives Detection Teams annually.
- 1998-2002 Member, Florida Forensic Center Consortium (F2C2) meeting twice a year with other F2C2 member centers.
- 1998-2001 Member, Ad-Hoc Committee on the Feasibility of Student Affiliate Chapters of the American Academy of Forensic Sciences
- 1998-2001 Member, American Society of Crime Lab Directors Education Committee
- 1996-2005 Member, Council on Forensic Science Education, American Academy of Forensic Sciences
- 1993-present Reviewer for proposals submitted to the *National Science Foundation-Chemistry Division*, *ACS PRF*, *National Institute for Occupational Safety & Health*, and the *Department of Energy*.
- 1989-present Reviewer for articles in *Analytical Chemistry*, *Journal of Chromatography*, *Journal of Chromatographic Science*, *J. Chem. Ed*, *Environ. Sci & Technol.*, *J. Microcol. Sepn.*, *J. Assoc. Off. Anal. Chem*, *Ind. Eng. Chem. Res.* and *Analytica Chimica Acta*,
- 1989-2005 Member of Committee E-30 on Forensic Sciences for the American Society for Testing and Materials (ASTM)
- 1996-1999 Member, International Sub-Committee on Standards in Forensic Science Undergraduate Education, American Academy of Forensic Sciences

- 1995 Immediate Past Chair and Chairman, Long Range Planning, South Florida Section, American Chemical Society
- 1994 Chairman, South Florida Section, American Chemical Society
- 1993 Chair-elect and Program Chairman, South Florida Section, American Chemical Society
- 1991-1996 Reviewed books for *Trends in Analytical Chemistry (TRAC)* and *ACS Books*
- 1993-1995 Midwest Research Institute Committee on SFE Methods Standardization.
- 1993-1996 Team member, Project IV: South Florida Oil Spill Shoreline Protection and Countermeasures: A Study Project for the Initiation of the South Florida Oil Spill Research Center, RSMAS, University of Miami.
- 2005 – 2014 Chair, Scientific Working Group on Dog and Orthogonal Detector Guidelines.
- 2014 – Present Chair, Organization for Scientific Area Committees (OSAC) Dog and Sensors subdivision.
- 2016- Present Chair, Dogs and Sensors Consensus Body of the American Standards Board of the American Academy of Forensic Sciences.

PROFESSIONAL SERVICE (to the Community or Public)

- 2014 Panelist at Libraries Luncheon on the Future of Libraries in Miami Dade County. September 29, 2014
- 2003-present Volunteer Pit Reporter, American Le Mans Series (ALMS) Trackside Media, International Motor Sports Association (IMSA), Braselto, GA. Now IMSA Tudor United Sports Car Championship
- 2003-2005 Den Leader, Pack 530, Miami, Florida, Cub Scouts of America
- 1992-2006 Lab Director for Community Laboratory Research Program through Dade County Public Schools (1-2 students each year).
- 1988-present Guest Speaker/Career day participant at local Elementary schools and Senior high schools. Sunset Senior High and Kendall Lakes Elementary
- 1989-present Science Fair Judge including Captain of Judging Teams for the South Florida Science and Engineering Fair
- 1994 Committee Member, Dade County Public Schools, Division of Mathematics and Science Review of Competency Based Curriculum for the Sciences as part of the National Science Foundation grant Urban Systemic Initiative
- 1989-93,95,98 Sponsoring preceptor of NSF Young Scholars/Project SEED Program students
- 1992-93,96,97 Sponsoring preceptor of Project SEED Summer II Program students

- 1988-1997 FIU/ACS Chemathon participant and speaker on "What Chemists Do"
- 1991-1997 Participant in "Third Grade Demonstration Project" performing chemical demonstrations for local elementary schools
- 1999 Hosted Feb. 29th campus tour and lectures (H. Averch, S. Kakar, K. Condon and K. Furton for 65 students from Coral Reef High School's Criminal Justice Academy.

MEDIA COVERAGE EXAMPLES

Interview with Voice of America Broadcast news about COVID-19 detector dogs- February 26, 2021

WLRN Discussion on Higher Education with Tom Hudson/ Jessica Bakeman- February 15, 2021

Interview with the National TV story inquiry Scripps national news- February 11, 2021

Dogs and Sensors Teleconference- February 10, 2021-- Dog Detectives Sniff Out COVID-19 | KSFR

Interview with Adam Iscoe with The New Yorker about COVID detecting dogs- February 9, 2021- <https://www.101espn.com/news/miami-heat-using-coronavirus-detecting-dogs-on-fans/>

ABC News Radio Interview with Lionel Moise- February 8, 2021- <http://abcnewsradioonline.com/sports-news/miami-heat-using-coronavirus-detecting-dogs-on-fans.html> weather wea

Weather Channel Interview- with Michelle Birnbaum, February 5, 2021

Interview with WFLA News channel 8 in Tampa about COVID detecting dogs- February 4, 2021

Phone Interview with Carl Stevens (WBZ News Radio in Boston) about COVID detecting dogs- February 3, 2021-The segments aired on WBZ News Radio in Boston, New England's most listened to all-news radio station.

Interview with Orlando's NBC Affiliate about the COVID detecting dogs – February 2, 2021

Interview with Orlando's CBS Affiliate about the COVID detecting dogs – February 1, 2021 (aired on February 2, 2021)

Featured on CBS4 News FIU Researchers Train Detectors Dogs To Accurately Detect COVID aired on 01/28/2021 <https://miami.cbslocal.com/video/5243815-fiu-researchers-train-detectors-dogs-to-accurately-detect-covid/>

Featured on NBC6 News to discuss research on using canines to detect COVID-19 aired 01/27/2021 <https://www.nbcmiami.com/multimedia/fiu-training-dogs-to-sniff-out-covid-19/2369370/>

Featured in APM Reports audio documentary “COVID on Campus - Coronavirus disrupts higher education, magnifies inequities and accelerates change. FIU discussion 39 min in <https://www.apmreports.org/episode/2020/07/29/covid-on-campus>, 07/29/2020

Featured on A&E Marcia Clark Investigates the First 48 “Casey Anthony” Season 1 Episode 1, aired on 03/29/2018 <https://www.aetv.com/shows/marcia-clark-investigates-the-first-48>

Featured on “CBS This Morning” to discuss Drones used to protect avocados from disease, CBS news story aired (05/05/2015) <http://www.cbsnews.com/videos/drones-dogs-used-to-protect-avocado-from-disease/>

Featured in Smithsonian Magazine article “The Education of a Bomb Dog” published July • August 2013.

Cited (regarding best measure of a dog’s reliability) in U.S. Supreme Court Decision “Florida v. Harris”. Unanimous decision supporting the used on detector dogs for probable cause in searches decided February 19, 2013.

Featured in Wall Street Journal article “The Rise of the Sophisticated Police-Dog Sniff” published August 22, 2011.

Featured in SeparationsNOW.com article “That’s handy: human scent collection for forensics depends on touch and textile type” published August 22, 2011.

Featured in Florida Today article “Forensics on trial – dueling experts, new techniques active in court” published July 3, 2011.

Featured in Sun Sentinel article “Tech Effect has juries seeking scientific proof” published July 20, 2011.

Featured in SpectroscopyNOW.com article “Scented human barcode” published February 15, 2010.

Featured in SeparationsNOW.com article “Scent the wrong way” published December 14, 2009.

Featured in Forensic Magazine article “Scents and Sense-Ability” published April/May 2006.

Featured in SpectroscopyNOW.com article “The sweet smell of success in human odour discrimination” published November 14, 2006.

Featured in AP article “Experts: Scent Damaging to Peterson Defense” published March 1, 2004 on ABC7News.com

Featured in FIU news article “FIU Institute Advances Science of Detector Dogs” on FIU home page in May, 2003.

Featured in New York Times Science Section Article “With Dog Detectives, Mistakes Can Happen” published on December 24, 2002.

PROFESSIONAL SERVICE (remunerated)

- 1996-present Qualified as an expert witness in Analytical Chemistry and Forensic Science. Testified approximately two dozen times including depositions, probable cause hearings, federal grand jury and in jury trials in federal and state court on behalf of both the prosecution and defense.
- 2002-present Consultant, National Nuclear Security Administration (NNSA), reviewer of research projects being conducted in National laboratories.
- 1998-1999 Consultant, Department of Energy/Federal Bureau of Investigation “Law Enforcement: Forensic R&D Initiative”. Selected as one of four academics in U.S. to assist the DOE with first meeting held in Washington involving V.P. Gore and Cabinet Secretaries Pena, Rubin, and Reno.

TEACHING EXPERIENCE

FLORIDA INTERNATIONAL UNIVERSITY (Since 1988)

- CHM 1032 Chemistry & Society
EVR 3011 Environmental Resources and Pollution
EVR 3011L Environmental Resources and Pollution Lab
CHM 3120 Quantitative Analysis
CHM 3120L Quantitative Analysis Laboratory
CHS 3501 Survey of Forensic Science
CHM 4130 Modern Analytical Chemistry
CHM 4130L Modern Analytical Chemistry Laboratory
CHS 4591 Internship in Criminalistics Chemistry/Internship in Forensic Science
CHM 4910L Undergraduate Research in Chemistry
CHM 4911 Undergraduate Research 2
CHM 4930 Senior Seminar
CHM 4990 Separation Science
CHS 4993 Forensic Science
CHM 5150 Graduate Analytical Methods
CHM 5156 Advanced Chromatography
CHM 5181 Special Topics in Analytical Chemistry
CHS 5531 Forensic Analysis
CHS 5531L Forensic Analysis Lab
EVR 5936 Topics in Environmental Studies
CHM-5995 Chemistry and Analysis of Drugs
CHM 5996 Principles of Chemical Instrumentation
CHM 6905 Independent Study in Chemistry
CHM 6910L Graduate Research in Chemistry

CHM 6935 Graduate Seminar
CHM 6970 Thesis Research
CHM 6971 Thesis
CHM 7980 Doctoral Dissertation
CHM 7984 Dissertation Research

UNIVERSITY OF WALES, Swansea, U.K.: Honorary College Lecturer

Forensic Analysis [for second and final year honours students] (1987, 1988).

FLORIDA STATE UNIVERSITY LONDON STUDY CENTER, London, U.K.:

Lecturer - Science and the Law, Forensic Science in Britain and America (1987,1988).

WAYNE STATE UNIVERSITY, Detroit, MI:

Substitute Instructor - Analytical Chemistry (Winter 1985, Winter, 1986).

Teaching Assistant - Principles of Chemistry, Honors General Chem, Organic Chemistry, Survey of Analytical Chemistry, Instrumental Analysis (1983-1986)

HIGH SCHOOL STUDENT RESEARCH PROJECTS DIRECTED
(ACS SEED/NSF YOUNG SCHOLARS)

1. Adriana Mantilla Summer C 1989 (SEED I), "Evaluation of Laundry Detergents Containing Anionic Surfactants as Column Packings in Gas Chromatography".
2. Maria I. Perez Summer C 1990 (SEED I), "Polarity and Selectivity of Ionic Gas Chromatographic Stationary Phases: Comparison of Anionic Detergents to Conventional Molecular Liquids".
3. Arold Norelus Summer C 1991 (SEED I), "A Novel Colorimetric Method for Determining the Critical Micelle Concentration of Aqueous Surfactant Solutions".

Summer C 1992 (SEED II), "The Gas-Liquid Chromatographic Stationary Phase Properties of Detergent Powders Used as Column Packings".

1992 South Florida Regional Science & Engineering Fair: Superior, Florida State Science & Engineering Fair: 5th Place.
4. Cristina Ferro Summer C 1992 (SEED I), "Comparison of the Physical Properties and Efficacy of Regular and 'Ultra' Laundry Detergent Powders".

Summer C 1993 (SEED II), "Inexpensive Gas Chromatography Experiments Utilizing Commercial Detergent Powders Containing Anionic, Non-ionic and Mixed Surfactants".

5. Angena Norelus Summer C 1995 (SEED I), "The Chemical Development of Latent Fingerprints Exclusively Employing Consumer Products".
Summer C 1996 (SEED II), "Comparison of Chemical Development Methods for Latent Fingerprints from Different Surfaces".
6. Jude Norelus Summer C 1998 (SEED I), "Manipulation of Latent Fingerprints Developed with Consumer Products".
Summer C 2000 (SEED II), "The Environmental Stability of Latent Fingerprints Chemically Developed".
7. Emmanuel Norelus Summer C 2001 (SEED I),
"Identification of 3,4-Methylenedioxymethamphetamine byproducts by SPME/GC/MS".

DADE COUNTY PUBLIC SCHOOLS COMMUNITY LAB RESEARCH INTERNSHIPS

1. Arold Norelus August 1992 - June 1993, "Comparison of Anionic, Cationic and Non-ionic Surfactant CMCs Using a New Visualization Technique".
Miami Edison SHS
1993 South Florida Regional Science & Engineering Fair: Superior & Best Physical Science Project, Florida State Science & Engineering Fair: 3rd Place.
2. Michael L. Sarkees August 1993 - June 1994, "Undergraduate experiments and demonstrations of the physicochemical properties of micellar solutions".
Miami Senior High
Valedictorian
1994 South Florida Regional Science & Engineering Fair: Superior
3. Angena Norelus August 1994 - June 1995, "A latent fingerprint detection experiment utilizing exclusively consumer products".
Miami Edison SHS
4. Jessica Carranza August 1994 - June 1995, "Comparison of methods to accurately determine critical micelle concentrations".
Coral Park SHS
August 1995 - June 1996, "Surface Tension Measurements by Conventional Tensiometry and a Hanging Drop Method".
5. Ofelia Rodriguez August 1995 - June 1996, "Intermolecular Attractions and Surface Cleaning of Semiconductor Surfaces with Supercritical Fluids".
G. Holmes Braddock HS
6. Jose Marquez August 1996 - June 1997, "Aromascan: Theory and Practice of Chemical Sensor Technology".
Miami Killian SHS
7. Simon Gil August 1996 - June 1997, "Chemical Development of Latent Fingerprints and Computer Digitization".
G. Holmes Braddock HS
8. Michelly Wei August 1997 - June 1998, "Optimization and Comparison of Chemical Fingerprint Development Methods".
Miami Killian SHS

9. David Leon
Miami Springs SHS August 1998-June 1999, "Undergraduate Experiments Demonstrating Aquarium and Swimming Pool Chemistry".
10. Ying Chen
Miami Palmetto SHS August 1999-June 2000, "Evaluation of Primary Odor Chemicals Used by Drug and Explosives Detector Dogs".
11. Vanessa Cabrera
Coral Reef SHS August 2000-June 2001, "Speciation of Drugs on Currency in General Circulation".
12. Michael Chow
Miami Sunset SHS
Valedictorian August 2002-June 2003, "Identification of Active Odor Signature Compounds in Drugs and Human Remains".
Semifinalist, Intel Science Talent Search – Stanford Early Acceptance
13. Scott Rabin
Miami Palmetto SHS August 2003-June 2005, "Uniqueness of Human Scent from Identical Twins".
14. Carlos Ramirez August 2005-June 2006, "Dissipation of Human Scent Components and Automated Analysis of Identified Components".
15. Mollie Sussman August 2007 – June 2008, "Discrimination between Hand Odor of Twins using Gas Chromatography Solid Phase Micro Extraction"
16. Guo Qian Fall 2012 – "Headspace Analysis of Volatiles from heated Teflon coated cookware" published: A Preliminary Study on Volatile Organic Compounds (VOCs) from Heating Empty Nonstick Pans J. American Academic Research Volume 3, Issue 7, July 2015

UNDERGRADUATE RESEARCH PROJECTS DIRECTED

1. Cindy Cork Summer C 1990 & Fall 1990, "Comparison of Nonaqueous Reverse-Phase High Performance Liquid Chromatography to Supercritical Fluid Chromatography for Polycyclic Aromatic Hydrocarbons".
2. Carlos Blanco Summer C 1990 & Fall 1990, "Ambiguities Associated with the use of McReynolds Constants for Evaluating the Polarity and Selectivity of Very Polar Gas Chromatographic Stationary Phases".
3. Ana Suarez Fall 1990, Spring 1991, "Gas-liquid Chromatographic Enantiomorphic Resolution Using a Liquid Organic Salt Column".
4. Aldo Calvo Spring 1991, Fall 1991, "Correction of McReynolds Constants for Gas-Liquid Interfacial Adsorption and Probe Reactivity When Evaluating Very Polar Gas Chromatographic Stationary Phases".
5. Fei Mak Spring 1991, "Comparison of Liquid Coated and Bonded-Phase Liquid Organic Salts as Selective Gas Chromatographic Packings".
6. Veronica V. del Carril Spring 1991, "Kinetic Experiments of Carcinogen-DNA Reactivity Using High Performance Liquid Chromatography".

7. Dennise Houghton Spring 1991, Fall 1991, "Comparison of Supercritical Fluid Extraction to Conventional Extraction Techniques".
8. Bobby Glickman Summer C 1991 & 1992, "Gas-liquid chromatographic stationary phase properties of free and polymer-bound pyridinium 4-toluenesulfonate".
9. Gretchen Pentzke Fall 1992, Spring 1993, "Extraction and Analysis of Polycyclic Aromatic Hydrocarbons from Environmental Samples".
10. Peter Cabauy Fall 1993, Spring 1993, "Development of Novel Methods For Studying Surfactant Solutions Above Critical Micelle Concentrations"

Winner of the Undergraduate Award at the National Science Foundation Conference on Diversity in the Scientific and Technological Workforce, Washington, D.C., October 28-30, 1993.

Fall 1994, Spring 1995, Summer 1995, "Kinetics of the Supercritical Carbon Dioxide Extraction of Model Absorbents: C18 and Phenyl-bonded silica".
11. Judith Jean-Louis Spring 1993 & Summer 1993, "Enzymatic and Mechanical Sample Preparation For Biological Samples Prior to Supercritical Fluid Extraction".
12. Barbara Viniegra Fall 1994, Spring 1995, Summer 1995, "Kinetics of the Supercritical Carbon Dioxide Extraction of Model Adsorbents: Silica and Alumina".
13. Arold Norelus Fall 1994, Spring 1995, Summer 1995, "Speciation of HOCs in Recent Sediments using Supercritical Carbon Dioxide".
14. Docten S. Serralta Fall 1995, "Establishment of Methyl Benzoate as the Primary Odor in Canine Alerts to Cocaine".
15. Silvio A. Restrepo Fall 1995, "The Source of Methyl Benzoate Found in Cocaine Specimens".
16. Pedro Lagos Spring 1996, "Methyl Benzoate Diffusion in Different Polymeric Containment Devices".
17. Nayiby Alvarez Spring 1996, "Methyl Benzoate Discrimination and Detection Capabilities of Canines and Humans".
18. Frances Lopez Fall 1996, Spring 1997, Summer 1997, "Controlled Diffusion Devices for Use in Canine Olfactometry"
19. Arold Norelus Fall 1997, Spring 1998, "Field Application of Controlled Drug Odor Diffusion Devices"
20. Claudia Lopez Fall 1997, Spring 1998, "The Analysis of Hydrocarbon in Geological Samples with Subcritical Water Extraction/SPME/GC"; Fall 1998, Spring 1999, Fall 1999, "Optimization of a SPME Procedure for the Analysis of Drug Odor Signatures on Currency"
21. Jonia Prieto Spring 2001/Fall 2001, "Evaluation of Free and Bound Cocaine on Circulated U.S. Paper Currency"

22. Diana Sum Fall 2001/Spring 2002, “Preferential Extraction of Homologous Series with Different Functional Groups Comparing Charcoal Adsorption to Solid Phase Microextraction.
23. Bolanle Alade Spring 2003, Summer 2003, “Controlled permeation of odors from human remains as unique training aids for research and certification of cadaver dogs”
24. Somi Bonne Fall 2002, Spring 2003, “Evaluation of storage devices for restricting and controlling odor permeation”
25. Farzan Khodadadi Spring 2003, Summer 2003, Fall 2003, “Explosive odor compositions, diffusion and permeation under various laboratory and field conditions”
26. Wilma Jeffris Spring 2004, Summer 2004, “Identification of odor signature compounds in decomposing human blood used by cadaver dogs to detect human remains”
27. Alisha Latham Spring 2004, Summer 2004, “Development of improved pseudo narcotic training aids for cocaine and 3,4-Methylenedioxyamphetamine.
28. Paola Prada Summer 2004, Fall 2004, “Comparison of Extraction Methods for the Elimination of VOCs Present in Sorbents Used for Human Scent Evidence Collection.” FIU’s first every B.S. Honors Thesis graduate
29. Jessica Wirks Spring 2006, Summer 2006, “Optimization of Sorbent Materials for the Collection and Analysis of Human Scent”
30. Lilian Garcia Summer 2006, “Correlation of Shedder Status to Ease of Matching Hand Odor Samples”.
31. Yenisey Velar Summer 2006, “Differentiation of Sources of Marijuana and other Plants via SPME-GC/MS”.
32. Linda Calvo Spring 2007, Summer 2007, “Optimized Detection of Explosives Based on a Comprehensive Selection Échème Incorporating Chemical Class, Purity, and Odor Signaturas”, Ronald E. McNair Scholar.
33. Sally Garcia Summer 2007, “Development of Field Calibration Systems for Biological and Electronic Sensors using COMPS”.
34. Mailyn Vega Summer 2007, “Potential of Various Biological Samples as Target Odors for Locating Persons”.
35. Philip Davis Spring 2007, Summer 2007, “Evaluation of potentially interfering organic chemicals in breath alcohol measurements”.
36. Norma Iris Caraballo Summer 2007, Fall 2007, “The Evaluation and Analysis of the Direct Collection of Human Hand Odor on Rayon Fabric”.
37. Eladio Mendez Spring 2009, Summer 2009, “Potential for Identical Twin Differentiation using Volatile Organic Compounds found in Blood”.

38. Adrian Torres Spring 2010, Fall 2010, “Development of Novel Calibrants for Explosives Detection Canines”.
39. Eric Quinoa Spring 2010, Fall 2010, “Evaluation of Identification Potential of VOCs from Various Biological Materials”.
40. Claudia Sanchez Spring 2010, Fall 2010 “Analysis of Volatile Organic Compounds of Heroin for Canine Detection by Using Solid Phase Microextraction/ Gas Chromatography-Mass Spectrometry”.
41. Antonio Castillo Spring 2011, “Evaluation of possible vibrational contribution to olfaction mechanism”.
42. Alan Mckenzie Coe Fall 2011, “Identification and Comparison of Volatile Organic Compounds in Cigarettes and Marijuana Samples using Solid Phase Microextraction and Gas Chromatography/Mass Spectrometry (SPME-GC/MS)”, Ronald E. McNair Scholar.
43. Vanquilla Shellman Fall 2011, “Headspace Solid-Phase Microextraction Coupled to Gas Chromatography/Mass Spectrometry (SPME GC/MS) for the Detection of Caffeine in Cocaine, an Over the Counter (OTC) Medicine and a Coffee Sample”, Ronald E. McNair Scholar.
44. Rosabla Parrazal: Fall 2012, Spring 2013, Taking Sampling and Sample Preparation to the Field: A New Application of Fabric Phase Sorptive Extraction (FPSE) for Analysis of High Explosives from Environmental Water using HPLC-UV
45. Jocelyn Martinez: Spring 2013, Extraction and Analysis of High Explosives from Environmental Water using Fabric Phase Sorptive Extraction (FPSE) –High Performance Liquid Chromatography-UV Detection
46. Danay Herrera-Hernández Fall 2013 Pursuit of a Complete Profile of Human Scent Composition through the use of Exhaustive and Non Exhaustive Extraction Methods
47. Jessica Jurmain Fall 2013 High sensitivity extraction of substituted phenols from environmental water using Fabric Phase Sorptive Extraction (FPSE)
48. Catherine Powell Spring 2016, “Fabric Phase Sorptive Extraction polymer Development”
49. David Mirander Spring 2016 “Investigation of VOCs in Saliva Samples of Epileptic Patients”
50. Jessie Innocent Spring 2016, “Fabric Phase Microextraction Development”
51. Jaqueline Rodriguez Fall 2016, “Evaluation of Canine field trials to determine the generalization of compounds”
52. Camilo Jaramilo Fall 2016, “Method development to determine Volatile Organic Compounds used by Canines to detect sea turtle nests”
53. Safia Boodoosigh Spring 2018, “Headspace analysis of Universal Detector Calibrant using Internally Calibrated External Standards”

54. Matthew Colas Spring 2018, “Using gravimetric analysis to obtain permeation rates for universal detector calibrants”
55. Alexis Armengol Fall 2018, “Analysis of VOCs Present in Hispanic and Caucasian Groups”
56. Javier Fernandez Spring 2018, “Determination of volatile organic compounds from the different soil samples”
57. Yeilin Caballero Summer 2019, “Comparison of VOC’s of Healthy vs Infected Avocado trees for canine recognition training.

GRADUATE THESES DIRECTED

1. Raul Morales, “The Effect of Anion Chain Length on the Solvent Properties of Liquid Tetra-n-butylammonium n-alkylsulfonate Salts Studied by Gas-Liquid Chromatography”, (M) 1991.
2. Joseph Rein, “The Relative Effect of Experimental Variables on Analytical Supercritical Fluid Extraction Efficiencies and Correlations with Chromatographic Data”, (M) 1991.
3. Qiang Lin, “Variation in the Supercritical Fluid Extraction of Polychlorinated Biphenyls as a Function of Sorbent Type, Extraction Cell Dimensions, and Fluid Flow Rate”, (M) 1992.
4. Ethon Jolly, “The Selective Elution of Analytes from Solid Phase Extraction Sorbents by Supercritical Fluid Extraction (M)”, 1993.
5. Regina Vichot, “Reversed-Phase Ion-Pair High Performance Liquid Chromatography of Low Molecular Weight Organic Acids With Indirect Photometric and Luminescence Detection”, (M) 1993.
6. Chia-Wen Huang, “High Temperature Supercritical Fluid Extraction of Hydrocarbons from Ancient Sediments”, (M) 1994.
7. Yu-Min Gong, “Experimental Parameters Controlling the Supercritical Fluid Extraction of Hydrocarbons”, co-advisor with R. Jaffe, (M) 1995.
8. Alberto J. Sabucedo, “Development of Modifier Probes for the Selective Extraction of Drugs from Sorbents and the Supercritical Fluid Extraction of Drugs of Abuse from Human Tissues”, (M) 1995.
9. Yi-Cheng Hong, “The Chemical Basis of Cocaine Detection by Canines and its Significance to the Contaminated Money Theory”, (M) 1995.
10. Li Chen, “Speciation of Uranium and Organic Compounds on Solid Matrix Studied by Supercritical Fluid Extraction”, joint project with R. Jaffe, (M) 1996.
11. Doraida Diaz, “Hydrocarbon Speciation Studies in Ancient Sediments BY High Temperature Supercritical Carbon Dioxide Extraction”, joint project with R. Jaffe, (M) 1996.
12. Lilia San-Miguel, “Comparison of Ion Pair and Buffered Mobile Phase Chromatography of Haloacetic Acids Using Direct and Indirect UV and Fluorescence Detection”, (M) 1998.

13. Ya-Li Hsu, "Correlation of Detector Dog Alerts to Cocaine Decomposition Products Found in Illicit Forensic Specimens", (M) 1998.
14. Tianying Luo, "SPME/GC Signature Analysis of Cocaine Impurities and Correlation to Drug Dog Detection", (M) 1998.
15. Jing Wang, "Variable Influencing the Recovery of the Ignitable Liquid Residues from Simulated Fire Debris and Human Skin Using Solid Phase Microextraction/Gas Chromatography", (M) 1998.
16. Grace Bi, "The Rapid Analysis of Explosives and Explosives Odors by SPME/GC-MS and SPME/HPLC", 1998.
17. Gretchen Pentzke, "The analysis of hydrocarbons in complex mixtures by SPME/GC-MS", 1997-98 (student changed advisors in 1998).
18. Julio Lopez, "High Pressure Solvent Extraction of Hydrocarbons from Geological Samples", co-advisor with R. Jaffe, (M) 1998.
19. Sugunya Monsalud, "Optimization of SPME for the Analysis of Organometalics in Natural Waters", co-advisor with Y. Cai, (M) 1999.
20. Lianming Wu, "Optimization of Solid-Phase Microextraction (SPME) for the Recovery of Explosives in Water and Post-Explosion Debris Followed by Gas and Liquid Chromatographic Analysis", (M), 1999.
21. Juan Bruna, "A Novel Technique for Arson Analysis Using Solid Phase Microextraction which is More Rapid, Safer, Less Expensive and More Sensitive than Existing Methods", (M) 2001 (anticipated).
22. Wendy Foss, "Spectroscopic and Chromatographic Characterization of Novel Alumina Based Liquid Chromatographic Stationary Phases" co-advisor with Gerome Hakey, (D) - Student became inactive in the program in 1999.
23. Behnoush Memari, "Critical Evaluation of the Analytical Precision and Accuracy of the Intoxilyzer 4000 Instrument", (M) 1999.
24. X. Fan, "Method Development for the Analysis of Explosives Using Capillary Zone Electrophoresis", co-advisor with Y. Deng, (M) 2000.
25. John Walton, "Decomposition and dissipation of illicit drugs and drug odor chemicals under various conditions including U.S. circulated currency", M.S. – Chemistry 2001.
26. Albert J. Sabucedo, "Stabilization of Troponin I for Applications in Clinical Chemistry and Forensic Medicine", Ph.D. - Chemistry 2001.
27. Tianlang Wan, "Analysis of Explosive Odor Signatures and Detector Dog Performance Employing Solid Phase Microextraction / Gas Chromatography (SPME/GC) and Controlled Polymeric Diffusion", M.S. – Chemistry 2002.

28. Norma Lorenzo, "Identification of Active Odor Signature Chemicals in Methamphetamine and 3,4-Methylenedioxymethamphetamine (Ecstasy) Using *Canis Familiaris* as Biological Detectors", M.S. - Forensic Science 2002.
29. Andrew Benson, "Simultaneous Separation, Identification and Quantitation of Common Date Rape Drugs Directly from Simulated Tampered Beverages Using High-Performance Liquid Chromatography Mass Spectrometry (HPLC/MS)", M.S. - Forensic Science 2002.
30. Timothy Scanlon, "The Corrosive Effect of Blood Regarding the Forensic Identification of Fired Projectiles", M.S. - Forensic Science 2003.
31. Jing Wang, "Classification of explosives and ignitable liquids by trace analysis of odor signatures and residues using SPME/GC/CI/MS", with J. Almirall (Ph.D. - Chemistry) 2005 (anticipated). Student currently working full time in industry and inactive.
32. Mary Ferguson, "Spectrophotometric Detection of 1-methylaminoanthraquinone from Recovered Illicit Currency", (M.S. – Forensic Science) 2004 (anticipated). Student currently inactive.
33. Lidia Marbot, "Speciation of HOCs in Recent Sediments", with R. Jaffe (Major Professor), (M.S. - Chemistry) 2005 (anticipated). Student currently inactive.
34. Samantha S. Tolliver, "Identification of *Canis familiaris* signature odor chemicals in human remains using derivatization solid-phase microextraction / gas chromatography / mass spectrometry", M.S. – Forensic Science 2005.
35. Bradley Young, "The Fate of Cocaine on U.S. Paper Currency", M.S. - Forensic Science 2005.
36. Ross J. Harper, "Improving the Scientific Reliability of Biological Detection by *Canis Familiaris*: Active Odor Signatures and Their Implications", Ph.D. Chemistry 2005.
37. Allison Curran, "The Analytical Determination of the Uniqueness and Persistence of the Volatile Components of Human Scent Using Optimized Collection Methods", Ph.D. – Chemistry 2005.
38. Ya-Li Hsu, "The Rapid Recovery of Non-protein Bound (Free) Psychoactive Drugs Via SPME/GC/MS/MS and Correlation to Therapeutic Dose", Ph.D. – Chemistry, student withdrew from the doctoral program at the end of the Summer 2009 term.
39. Benoush Memari, "Improved Estimation of Post Mortem Interval with Cardiac Troponin T and Improved Analytical Methods", Ph.D. – Chemistry 2008.
40. Rob Griffith, "Scientific Confirmation of Detector Dog's Ability to Differentiate the Microbial Volatile Organic Compounds From Different Mold Species", M.S – Forensic Science 2005.
41. Laura Conner, "Evaluation of Field Sampling and Analysis Methods for Fire Investigation Including Electronic Noses and Adsorption Sampling/GC/MS", M.S. – Forensic Science 2005.
42. Adam Wolff, "The Accuracy and Precision of Breath and Blood Alcohol Measurements Using the Intoxilyzer 5000 vs. 8000 and Headspace Dual Column GC/FID vs. SPME/GC/MS", M.S. – Forensic Science 2007.

43. JoNell Aarons, "Comparison of Volatile Organic Compound Profiles Above Paper Currency, Non-Controlled Substances and Different Marijuana Samples", M.S. - Forensic Science 2007.
44. Ashley Phillips, "Optimization of Adsorbers for the Collection and Preservation of Human Scent Chemicals", Ph.D. – Chemistry 2005, student left program to go to Vet school.
45. JoNell Aarons, Comparison of Volatile Organic Compound Profiles Above Paper Currency, Non-Controlled Substances and Different Marijuana Samples, Ph.D. - Chemistry, student was dismissed from the Doctoral program after the Fall 2009 semester.
46. Davia Hudson, "Variables affecting the collection and preservation of human scent components through instrumental and biological evaluations", Ph.D. - Chemistry 2009.
47. Michael Macias, "The development of an optimized system of narcotic and explosive contraband mimics for calibration of instrumental and biological detectors", Ph.D. – Chemistry 2009.
48. Paola Prada, "Evaluation of contact and non-contact trapping efficiencies of human scent chemical profiles and their stabilities under different environmental conditions", Ph.D. – Chemistry 2010.
49. Maiko Kusano, "Systematic evaluation of profiling potential of volatile biomarkers from biological samples (blood, breath, buccal cells, sweat and urine) across a population", Ph.D. – Chemistry 2010.
50. Lauryn E. DeGreeff, "Development of a dynamic headspace concentration technique for the non-contact sampling of human odor samples and the creation of canine training aids", Ph.D. – Chemistry 2010.
51. Samantha Tolliver, "Correlation on toxicological results from postmortem and antemortem specimens", Ph.D. – Chemistry 2010. Ms. Tolliver won the 2010 Society of Forensic Toxicologists (SOFT) Educational Research Award.
52. Philip R. Davis, "Advancement in the qualitative and quantitative analysis of volatile organic compounds in human breath and blood for medical and forensic purposes using SPME-GC/MS", M.S. - Forensic Science, student transferred to Ph.D. – Chemistry after the Fall 2011 semester.
53. Jessica S. Brown, "Determination of signature volatile odor chemicals emanating from novel biological specimens by non-invasive analytical techniques for the potential use in forensic identifications", Ph.D. – Chemistry 2012.
54. Katylynn Beltz, "The development of calibrants through characterization of volatile organic compounds from peroxide based explosives and a non-target chemical calibration compound", Ph.D. - Chemistry 2013.
55. Norma Iris Caraballo, "Identification of characteristic volatile organic compounds released during the decomposition process of human remains and analogues", Ph.D. - Chemistry 2014.
56. Michelle Cerreta, "Molecular imprinting on sol gel precursors as a tool for separation and quantification of cocaine and its major metabolites", Ph.D. - Chemistry 2015.
57. Cristopher Lawrence DeJesus, "Investigation of the Influences of Site and Temporal Effects on Postmortem Drug Concentrations", Ph.D. - Chemistry 2015 (Switched to MS).

58. Claudia Sanchez, "Evaluation of the Scent Collection System for its Effectiveness in Volatile Organic Compound Collection and Use in Canine Training", M.S. – Forensic Science 2015.
59. Lauren J. Colón-Crespo, "Determination of Human Scent Biomarkers For Race, Ethnicity And Gender", Ph.D. – Chemistry 2016.
60. Adhly Marie Huertas-Rivera, "Identification of the Active Odors from Illicit Substances for the Development of Optimal Canine Training Aids", Ph.D. – Chemistry 2016. Student withdrew from the program in 2015.
61. Torki Zughaibi, "Study of the Transport of Odorants from Illicit Substances using Direct Analysis in Real Time Mass Spectrometry", Ph.D. – Chemistry 2017 (anticipated).
62. Philip R. Davis, "The Investigation of Human Scent from Individuals Diagnosed with Epilepsy for the Identification of a Biomarker for Epileptic Seizures", Ph.D. – Chemistry 2016 (anticipated).
63. Adrian Torres, "Dissipation of Non-Contact Residual Volatile Organic Compounds of Drugs and Explosives", M.S. – Forensic Science 2015 (anticipated).
64. Rodolfo Mesa, "Fabric Phase Sorptive Extraction: A Paradigm Shift Approach in Solving Sample Preparation Challenges with Forensic Implications", Ph.D. – Chemistry 2017 (anticipated).
65. Vanquilla Shellman, "The Identification of Volatile Organic Compounds from Synthetic Cathinones for the Development of Drug Odor Mimics for Training Narcotic Detection Canines", Ph.D. – Chemistry 2017 (anticipated).
66. Alison Simon "Detection Of An Invasive Pathogen Through Chemical and Biological Means fo the Protection of Commercial Crops" Ph.D – Chemistry 2017 (Anticipated) Recipient of 2015 Cartha "Deke" DeLoach Forensic Science Award and the J. Edgar Hoover Foundation Scientific Scholarship (\$10,000) – Forensic Science 2017.
67. Kelvin Frank "Utilizing Optimal Headspace Solid Phase Micro-Extraction for the Characterization of Volatile Organic Compounds (VOCs) Released from Explosives" PhD Chemistry (anticipated Fall 2020)
68. Alice Boone "The Determination of Volatile Markers in Human Scent and the Correlation of Human Leukocyte Antigen Genes and the Microbiome to the VOCs from Individuals of Different Genders and Ages within Target Populations." PhD – Chemistry (anticipated Fall 2020)
69. Chantrell Frazier "Chantrell Frazier - Human Scent Forensics: A cross-disciplinary study using SPME-GC/MS VOC analyses and Next Generation DNA sequencing" (Anticipated Fall 2021)
70. Vidia Gokool - "Investigation of Human Scent as a Biometric" (Anticipated Fall 2024)
71. Leann Forte – "Optimal Extraction of Fentanyl VOCs for the Development of Canine Training Aid Mimics" (Anticipated Fall 2024)
72. Janet Crespo – Project to be determined (Anticipated Fall 2025)
73. Basit Olayanju - Project to be determined (Anticipated Fall 2025)

RESEARCH EXPERIENCE h-index of 48 as reported by [Google Scholar](#)

FLORIDA INTERNATIONAL UNIVERSITY - DEPARTMENT OF CHEMISTRY: Assistant, Associate and Full Professor. Dr. Furton's research program has focused on separation science and the development of novel sample preparation methods including solid phase extraction, supercritical fluid extraction and, most recently, solid phase microextraction (SPME). Recent research includes physicochemical measurements using chromatographic techniques and the development of column technology and instrumentation for chromatography. Recent specific projects have included the use of supercritical fluids in forensic toxicology, the use of SPME in arson, explosives and drug analysis, the discriminating power of glass fragments, chemical agents to detect illicit US currency, chemical methods to visualize latent fingerprints and behavioral olfactometry to study canine selectivity and sensitivity to chemical odor fingerprints associated with paper currency, drugs and explosives.

UNIVERSITY COLLEGE OF SWANSEA - DEPARTMENT OF CHEMISTRY: Postdoctoral Research Assistant. Conducted with Professor J.H. Purnell, OBE (Physical Chemistry) and Dr. G. Stedman (Inorganic Chemistry). Determination of thermodynamic data relating to potentially hazardous acids in various complexing solvents for use in spent nuclear fuel reprocessing techniques.

WAYNE STATE UNIVERSITY - DEPARTMENT OF CHEMISTRY: Graduate Research Assistant. Conducted with Professor C.F. Poole (Analytical Chemistry). Ph.D. Dissertation Title: "Factors Governing the Retention of Solutes on Liquid Organic Salt Phases Used in Gases Chromatography". Synthesis and evaluation of new selective stationary phases for chromatography, methods for evaluating polarity and selectivity of stationary phases used in gas chromatography.

WAYNE STATE UNIVERSITY - SCHOOL OF MEDICINE: Research Consultant. Conducted with Professor S. Dutta (Pharmacology). The analysis of permanent gases/light hydrocarbons in the study of lipid peroxidation in rats. Also with Professor T. Kuo (Pathology). The study of fatty acid methyl esters derived from rat heart plasma membrane phospholipids.

UNIVERSITY OF CENTRAL FLORIDA - DEPARTMENT OF CHEMISTRY: Research Assistant. Conducted with Professor C.A. Clausen (Physical Chemistry). The development of a routine sampling method to entrap, detect, and identify accelerants present in fire atmospheres, the application of ATR/FTIR to the analysis of questioned documents.

PATENTS

1. K.G. Furton and A.M. Curran, "Identification of Humans through Characteristic Compounds Detected in Human Scent" United States Patent No. 7,781,218, Issued August 24, 2010.
2. K.G. Furton and K. Beltz, Universal Detection Calibrant, U.S. Patent application filed on Feb. 18, 2011. U.S. Patent 9,250,222 Issued February 2, 2016
3. A Kabir and K.G. Furton, Fabric Phase Sorptive Extraction (FPSE), U.S. Patent Application filed March 15, 2013. U.S. Patent 9,283,544 Issued March 15, 2016
4. A. Kabir, K.G. Furton. Field Sampling Kit for Chemical Recovery, Storage, and Profiling, Method of Making and Using the Kit, and a Dynamic Fabric Phase Sorptive Extraction (DFPSE) Media. United States Patent 9,527,059. Issued December 27, 2016.

5. A. Kabir, K.G. Furton. Fabric Phase Sorptive Extractors. Patent 9,557,252 issued January 31, 2017.
6. K.G. Furton, K. Beltz, Universal Detector Calibrant, United States Patent 9,575,038 issued February 21, 2017
7. A. Kabir and K.G. Furton, Superpolar chromatographic stationary phases and extraction sorbents and their methods of synthesis, U.S. Patent 9,700,872 issued July 11, 2017.
8. K.G. Furton and R.J. Harper, Controlled Odor Mimic Permeation System, U.S. Patent 9,706,755 issued July 18, 2017.
9. A. Kabir, K.G. Furton. Materials and Methods for the Detection of Trace Amounts of Substances in Biological and Environmental Samples. United States Patent. Patent No. 9,772,338 (Issued on Sep. 26, 2017).
10. A. Kabir, K.G. Furton. In-Vial Microextraction (IVME) Systems and Their Method of Making, United States Patent 9,851,281, January 5, 2017. Issued December 26, 2017
11. A. Kabir, K.G. Furton. Sol-Gel Polymeric Stationary Phases for High-Performance Liquid Chromatography and Solid Phase Extraction: Their Method of Making, United States Patent, 9,925,518 Issued March 27, 2018
12. A. Kabir, K.G. Furton, Alkyl Functionalized Porous Silica Liquid Chromatographic Stationary Phases and Solid Phase Extraction Sorbents, Patent 9,925,515, Issued March 27, 2018
13. A. Kabir, K.G. Furton. Encapsulation of Particulate Matters in Sol-gel Silica Matrix: Methods of Preparation, Patent 10,183,270, Issued 01/22/2019
14. A. Kabir, K.G. Furton. Sol-Gel Polymeric Stationary Phases for High-Performance Liquid Chromatography and Solid Phase Extraction: Their Method of Making, United States Patent, 10,335,767. Issued July 2, 2019
15. A. Kabir, K.G. Furton. Microextraction Capsules and Methods of Making, United States Patent, 10,352,833, January 16, 2017. (Issued July 16, 2019)
16. A. Kabir, K.G. Furton. Materials and Methods for the Detection of Trace Amounts of Substances in Biological and Environmental Samples. United States Patent. 10,768,157, Issued September 8, 2020
17. K.G. Furton, M. Cerreta, A. Kabir. Molecularly Encapsulated Sol-gel Training Aids. Patent Pending. USPTO Serial Number 62/159,006, May 8, 2015. (Patent Pending)
18. A. Kabir, K.G. Furton. Sol-Gel Molecularly Imprinted Polymers and Their Method of Making. USPTO Serial Number 15/298,776. October 20, 2016. (Patent Pending)
19. A. Simon, K. G. Furton. COMPOSITIONS COMPRISING VOLATILE ORGANIC COMPOUNDS FROM NATURAL SPECIMENS AND USES THEREOF (Submitted March 9, 2018) (Patent Pending)
20. A. Kabir, K.G. Furton, Sol-gel Primary Secondary Amine (Sol-gel PSA) sorbents and their composites: Methods of Synthesis (submitted July 29, 2018) (Patent Pending)

21. A. Kabir, K.G. Furton. Method of Making Mesoporous Silica and Its Application in Reversed Phase, Normal Phase, Ion-exchanging, Mixed Mode and Polymeric Liquid Chromatographic Stationary Phases and Solid Phase Extraction Sorbents. (submitted August 8, 2018) (Patent Pending)
22. A. Kabir, K.G. Furton. MESOPOROUS SILICA AND STATIONARY PHASES AND SOLID PHASE SORBENTS THEREFROM (Submitted on January 21, 2019) (Patent Pending)
23. A. Simon, K.G. Furton. Fractionation of Odor for canine training aids (Submitted February 26, 2019) (Patent Pending)
24. A. Kabir, K.G. Furton. Microcrystalline Cellulose Particle Supported Liquid Chromatographic Stationary Phases and Solid Phase Extraction Sorbents: Methods of Making; 2019-078 (Submitted February 29, 2020) (Patent Pending)
25. A. Kabir, K.G. Furton. 3-Thiocyanatopropyl Functionalized Sol-gel Silica Sorbent for Broad-Spectrum Metal Monitoring and Mitigation: Methods of Making Disclosure Status (Submitted May 7, 2021) (Patent Pending)

BOOK PUBLICATIONS

1. J.R. Almirall and K.G. Furton, *Advances in Forensic Science Techniques: Interpretation of Fire Scene Evidence*, Edited Book published by CRC Press, Boca Raton, February 2004, 264 pages. First book in the series "Forensic Science Techniques Series" by CRC Press (J.R. Almirall and K.G. Furton, Series Eds.) (ISBN 9780849378850)
2. PA Prada, AM Curran, KG Furton, *Human Scent Evidence*, CRC Press Taylor and Francis Group 228 Pages October 2014 (ISBN 9781466583955)

PEER REVIEWED PUBLICATIONS

1. K.G. Furton and C.F. Poole, Variation in the Gas Chromatographic Stationary Phase Properties of Tetra-n-Butylammonium Salts as a Function of the Anion Type, *J. Chromatogr.*, 349 (1985) 235-47.
2. C.F. Poole, B.R. Kersten, S.J. Ho, M.E. Coddens, and K.G. Furton, Organic Salts, Liquid at Room Temperature, as Mobile Phases in Liquid Chromatography, *J. Chromatogr.*, 352 (1986) 407-25.
3. M.E. Coddens, K.G. Furton, and C.F. Poole, Synthesis and Gas Chromatographic Stationary Phases Properties of Alkylammonium Thiocyanates, *J. Chromatogr.*, 356 (1986) 59-77.
4. C.F. Poole, K.G. Furton, and B.R. Kersten, Liquid Organic Salt Phases for Gas Chromatography, *J. Chromatogr. Sci.*, 24 (1986) 400-409.
5. K.G. Furton and C.F. Poole, Fast Atom Bombardment Mass Spectra of Some Alkylammonium 4-Toluenesulfonate Salts, *Org. Mass Spectrom.*, 22 (1987) 210-211.
6. K.G. Furton, S.K. Poole, and C.F. Poole, Gas Chromatographic Stationary Phase Properties of Two Room Temperature Liquid Organic Salts, *Anal. Chimica Acta*, 192 (1987) 49-61.
7. K.G. Furton and C.F. Poole, Solute-Solvent Interactions in Liquid Alkylammonium 4-Toluenesulfonate Salts Studied by Gas Chromatography, *Anal. Chem.*, 59 (1987) 1170-1176.

8. K.G. Furton and C.F. Poole, Thermodynamic Characterization of Solute Solvent Interactions in Liquid Organic Salt Solvents, Studied by Gas Chromatography, *J. Chromatogr.*, 399 (1987) 47-68.
9. K.G. Furton, C.F. Poole, and B.R. Kersten, Correlation of Solute Retention in Gas Chromatography With Properties of the Anion for Tetra-n-Butylammonium Salts, *Anal. Chimica Acta*, 192 (1987) 255-265.
10. K.G. Furton and C.F. Poole, Fast Atom Bombardment Mass Spectra of Some Tetra-n-Butylammonium Salts, *Org. Mass Spectrom.*, 22 (1987) 377-378.
11. B.R. Kersten, C.F. Poole, and K.G. Furton, Ambiguities in the Determination of McReynolds Stationary Phase Constants, *J. Chromatogr.*, 411 (1987) 43-59.
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204. Artem Rogachev, Irina Ilyina, Abuzar Kabir, Konstantin Volcho, Valentina Fadeeva, Andrey Pokrovsky, Nariman Salakhutdinov, Kenneth Furton, Comparison of dried matrix spots and fabric phase sorptive extraction methods for quantitation of highly potent analgesic activity agent (2R,4aR,7R,8aR)-4,7-dimethyl-2-(thiophen-2-yl)octahydro-2H-chromen-4-ol in rat whole blood and plasma using LC-MS/MS, *Journal of Chromatography B*, Volume 1132, 15 November 2019 (<https://doi.org/10.1016/j.jchromb.2019.121813>)
205. Sumeyra Gulle, Halil Ibrahim Ulusoy, Abuzar Kabir, Angela Tartaglia, Kenneth G. Furton, Marcello Locatelli and Victoria F. Samanidou, Application of a fabric phase sorptive extraction high performance liquid chromatography-photodiode array detection method for the trace determination of methyl paraben, propyl paraben and butyl paraben in cosmetic and environmental samples, *Anal. Methods*, 2019, 11, 6136, DOI: 10.1039/c9ay02260k
206. Maria Celeiro, Ruben Acerbi, Abuzar Kabir, Kenneth G. Furton, Maria Llompарт, Development of an analytical methodology based on fabric phase sorptive extraction followed by gas chromatography-tandem mass spectrometry to determine UV filters in environmental and recreational waters, *Analytica Chimica Acta X*, 4 December 17, 2019 DOI <https://doi.org/10.1016/j.acax.2019.100038>
207. Maria Celeiro, Lua Vazquez, Piyaluk Nurerk, Abuzar Kabir, Kenneth G. Furton, Thierry Dagnac, Maria Llompарт, Fabric phase sorptive extraction for the determination of 17 multiclass fungicides in environmental water by gas chromatography-tandem mass spectrometry, *Journal of Separation Science*, 1-13, January 14, 2020, DOI: 10.1002/jssc.201901232
208. M.Locatellia, A.Tartaglia, F.D'Ambrosio, P.Ramundo, H.I.Ulusoy, K.G.Furton, A.Kabir, Biofluid sampler: A new gateway for mail-in-analysis of whole blood samples, Volume 1143, 15 April 2020, 122055, <https://doi.org/10.1016/j.jchromb.2020.122055>
209. Ramandeep Kaur Heena Ripneel Kaur Aman Grover Susheela Rani Ashok Kumar Malik Abuzar Kabir Kenneth G. Furton, Trace determination of parabens in cosmetics and personal care

products using fabric-phase sorptive extraction and high-performance liquid chromatography with UV detection, Journal of Separation Science, April 7, 2020, <https://doi.org/10.1002/jssc.201900978>

210. Joan Carles Nadal; Francesc Borrull; Kenneth G Furton; Abuzar Kabir; Rosa Maria Marcé, Selective monitoring of acidic and basic compounds in environmental water by capsule phase microextraction using sol-gel mixed-mode sorbents followed by LC-MS/MS, Journal of Chromatography A, submitted April 9, 2020
211. Natasa Kalogiouri, Abuzar Kabir, Athanasios Tsalbouris, Kenneth Furton, Synthesis and application of molecularly imprinted polymers using sol-gel matrix imprinting technology for the efficient solid-phase extraction of BPA from water, Microchemical Journal, submitted April 17, 2020
212. Georgios Rigkos, Vasileios Alampanos, Abuzar Kabir, Kenneth G. Furton, Zeljka Roje, Ivana Vinkovic Vrcek, Irene Panderi, Victoria Samanidou, An improved fabric-phase sorptive extraction protocol for the determination of seven parabens in human urine by HPLC–DAD, Biomedical Chromatography, Vol 35, Issue 2, August 25, 2020, <https://doi.org/10.1002/bmc.4974>
213. DeGreeff, L. E., Simon, A. G., Macias, M. S., Holness, H. K., Furton, K. G. Controlled Odor Mimic Permeation Systems for Olfactory Training and Field Testing., J. Vis. Exp (167), e60846, doi:10.3791/60846 (January 28, 2021). <https://www.jove.com/t/60846/controlled-odor-mimic-permeation-systems-for-olfactory-training-field>
214. Rayco Guedes-Alonso *, Zoraida Sosa-Ferrera, José J. Santana-Rodríguez, Abuzar Kabir, Kenneth G. Furton, Rapid determination of steroid hormone residues in commercial raw milk through fabric phase sorptive extraction followed by ultra-high performance liquid chromatography tandem mass spectrometry, Food Analytical Methods (In Press January 31, 2021)
215. Parla, A.; Zormpa, E.; Paloumpis, N.; Kabir, A.; Furton, K.G.; Roje, Ž.; Samanidou, V.; Vinković Vrček, I.; Panderi, I. Determination of Intact Parabens in the Human Plasma of Cancer and Non-Cancer Patients Using a Validated Fabric Phase Sorptive Extraction Reversed-Phase Liquid Chromatography Method with UV Detection. Molecules 2021, 26, 1526. <https://doi.org/10.3390/molecules26061526>
216. Stephanie R. Vaughan, Lauryn E. DeGreeff, Leann Forte, Howard K. Holness, Kenneth G. Furton, Identification of Volatile Components in the Headpace of Pharmaceutical-Grade Fentanyl, Forensic Chemistry, 2021, <https://doi.org/10.1016/j.forc.2021.100331>
217. Natasa P. Kalogiouri Agathi Pritsa Abuzar Kabir Kenneth G. Furton Victoria F. Samanidou, A green molecular imprinted solid-phase extraction protocol for bisphenol A monitoring with HPLC-UV to guarantee the quality and safety of walnuts under different storage conditions, Journal of Separation Science, January 2021, <https://doi.org/10.1002/jssc.202001199>

PAPERS/PRESENTATIONS AT MEETINGS/CONFERENCES

1. S.C. Dhanesar, K.G. Furton, M.E. Coddens, and C.F. Poole, Organic Molten Salt Phases for Gas Chromatography, 36th Pittsburgh Conference and Exposition, New Orleans, Louisiana, February 25 - March 1, 1985.

2. K.G. Furton, M.E. Coddens, S.C. Dhanesar, S.J. Ho, and C.F. Poole, Chromatographic Properties of Organic Molten Salts, 21st International Symposium - Advances in Chromatography, Oslo, Norway, June 3 - 6, 1985.
3. C.F. Poole, B.R. Kersten, S.J. Ho, M.E. Coddens, and K.G. Furton, Solvent Properties of Liquid Organic Molten Salts, 9th International Symposium on Column Liquid Chromatography, Edinburgh, Scotland, July 1 - 5, 1985.
4. K.G. Furton and C.F. Poole, Organic Molten Salt Phases for G.C., 1985 Anachem Symposium, Plymouth, Michigan, October 24, 1985.
5. K.G. Furton and C.F. Poole, The Stationary Phase Properties of Tetra-n-butylammonium Salts in Gas Chromatography, 37th Pittsburgh Conference and Exposition, Atlantic City, New Jersey, March 10 - 14, 1986.
6. K.G. Furton and C.F. Poole, Liquid Organic Salts as Selective Stationary Phases for Gas Chromatography, 18th American Chemical Society Regional Meeting, Bowling Green, Ohio, June 1 - 5, 1986.
7. C.F. Poole, B.R. Kersten, and K.G. Furton, Factors Affecting the Determination of the Selectivity of Polar Stationary Phases for Gas Chromatography, 22nd International Symposium - Advances in Chromatography, Houston, Texas, September 15 - 18, 1986.
8. K.G. Furton and C.F. Poole, Factors Governing the Retention of Solutes on Liquid Organic Salt Phases in Gas Chromatography, 22nd International Symposium - Advances in Chromatography, Houston, Texas, September 15 - 18, 1986.
9. K.G. Furton and C.F. Poole, Retention Mechanisms of Liquid Organic Salt Phases Used in Gas Chromatography, Federation of Analytical Chemistry and Spectroscopy Societies, XIII, St. Louis, Missouri, September 28 - October 3, 1986.
10. C.F. Poole, K.G. Furton, and B.R. Kersten, Liquid Organic Salt Phases for Gas Chromatography, Federation of Analytical Chemistry and Spectroscopy Societies, XII, St. Louis, Missouri, September 28 - October 3, 1986.
11. C.F. Poole, B.R. Kersten, and K.G. Furton, Determination of the Selectivity of Polar Phases, 1986 Anachem Symposium, Plymouth, Michigan, October 28, 1986.
12. K.G. Furton and C.F. Poole, Evaluation of Polarity and Selectivity of Liquid Organic Salt Phases in Gas Chromatography by Thermodynamic Quantities, 1986 Anachem Symposium, Plymouth, Michigan, October 28, 1986.
13. K.G. Furton and C.F. Poole, Comparison of the Intermolecular Interactions in LOS and Non-Ionic Liquids by GLC Physicochemical Measurements, 24th International Symposium - Advances in Chromatography, Berlin, West Germany, September 8 - 10, 1987.
14. K.G. Furton, J. H. Purnell, and G. Stedman, Gas Chromatographic Study of the Complexation of Hydrogen Chloride With Tributyl Phosphate in Organic Solvents, 25th Anniversary Analytical Chemistry Research and Development Topics Meeting - Royal Society of Chemistry, Plymouth, United Kingdom, July 18 - 19, 1988.

15. K.G. Furton, J.H. Purnell, and G. Stedman, Chromatographic Investigation of the Solution Properties of Hydracids in Tributyl Phosphate/Hydrocarbon/Aqueous Systems, 25th International Symposium - Advances in Chromatography, Minneapolis, Minnesota, August 29 - September 1, 1988.
16. K.G. Furton, J. H. Purnell, and G. Stedman, Thermodynamics of Hydracid Complexation Studied by Gas Chromatography, 198th ACS National Meeting, Miami, Florida, September 10-15, 1989.
17. K.G. Furton and R. Morales, Anion and Cation Effects on the Polarity and Selectivity of Liquid Organic Salt Stationary Phases Used in Gas Chromatography, 198th ACS National Meeting, Miami, Florida, September 10-15, 1989.
18. K.G. Furton and R. Morales, The Stationary Phase Properties of Liquid Tetra-n-butylammonium Alkyl and Aryl Sulfonate Salts Used in Gas Chromatography, 16th Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies, Chicago, Illinois, October 1 - 6, 1989.
19. A. Mantilla and K.G. Furton, Evaluation of Laundry Detergents Containing Anionic Surfactants as Column Packings in Gas Chromatography, 1990 Society for the Advancement of Chicanos and Native Americans in Science Conference, Tempe, Arizona, January 5 - 7, 1990.
20. K.G. Furton and J. Rein, Study of Microextractor Designs and Optimization for Use in Analytical Supercritical Fluid Extraction of Environmentally Important Compounds, 200th ACS National Meeting, Washington, D.C., August 26 - 31, 1990.
21. K.G. Furton and R. Morales, Gas Chromatographic Physicochemical Measurements and Practical Applications of Liquid Tetra-n-butylammonium n-alkyl Sulfonate Salts, 200th ACS National Meeting, Washington, D.C., August 26 - 31, 1990.
22. M.I. Perez and K. G. Furton, Polarity and Selectivity of Ionic Gas Chromatographic Stationary Phases: Comparison of Anionic Detergents to Conventional Molecular Liquids, SACNAS Conference, Costa Mesa, California, January 4 - 7, 1991, Young Scholars Poster 4.
23. K. Mopper and K.G. Furton, Extraction and Analysis of Polysaccharides, Chiral Amino Acids, and SFE-extractable Lipids from Marine POM, FRECLES Workshop on "The Analysis and Characterization of Marine Particles", East-West Center, Honolulu, Hawaii, January 20-26, 1991.
24. K.G. Furton, C. Blanco and R. Morales, Effect of Anion Chain Length on the Thermodynamics of Solute-Solvent Interactions in Liquid Organic Salts Studied by Gas Chromatography, Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Chicago, Illinois, March 4-8, 1991.
25. K.G. Furton, C. Cork and J. Rein, Factors Governing the Supercritical Fluid Extraction Efficiencies of Polycyclic Aromatic Hydrocarbons in Combination with Gas, Liquid, and Supercritical Fluid Chromatography, Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Chicago, Illinois, March 4-8, 1991.
26. J. Rein and K.G. Furton, The Quantitative Effect of Microextractor Cell Geometry on the Supercritical Fluid Extraction Efficiencies of Environmentally Important Compounds, 201st ACS National Meeting, Atlanta, Georgia, April 14-19, 1991, ACS Sci-Mix.

27. K.G. Furton and J. Rein, Factors Governing the Supercritical Fluid Extraction Efficiencies of Polycyclic Aromatic Hydrocarbons and Correlations with Supercritical Fluid Chromatographic Data, 201st ACS National Meeting, Atlanta, Georgia, April 14-19, 1991, Invited Paper for ACS Symposium Series 'Supercritical Fluid Technology'.
28. J. Rein and K.G. Furton, The Quantitative Effect of Microextractor Cell Geometry on the Supercritical Fluid Extraction Efficiencies of Environmentally Important Compounds, 201st ACS National Meeting, Atlanta, Georgia, April 14-19, 1991, Environmental Chemistry Division.
29. K.G. Furton and J. Rein, The Relative Effect of Experimental Variables on the Supercritical Fluid Extraction of Polycyclic Aromatic Hydrocarbons from Octadecyl Sorbents, 1991 Annual Meeting of the Florida Section of the American Chemical Society, Tampa, Florida, May 15-17, 1991, Session 9: Environmental Chemistry; paper No. 96.
30. K.G. Furton, E. Jolly, Q. Lin, and J. Rein, The Quantitative Effect of Experimental Variables on the Supercritical Fluid Extraction of Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls from Model Sorbents and Environmental Solids, 2nd Pan American Chemical Congress, San Juan, Puerto Rico, September 24-29, 1991.
31. A. Norelus and K. G. Furton, A Novel Colorimetric Method for Determining the Critical Micelle Concentration of Aqueous Surfactant Solutions, SACNAS Conference, San Antonio, Texas, January 2 - 4, 1992.
32. K.G. Furton, Raul Morales and A. Calvo, Anomalous Selectivity Variation when Employing the Rohrschneider/McReynolds System to Characterize Liquid Organic Salt Stationary Phases, 1992 Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, New Orleans, Louisiana, March 9-13, 1992.
33. K.G. Furton, E. Jolly, Q. Lin, and J. Rein, The Relative Effects of Temperature, Density, and Cell Dimensions on the Supercritical Fluid Extraction Efficiencies of Analytes from Model Sorbents and Environmental Solids, 1992 Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, New Orleans, Louisiana, March 9-13, 1992.
34. K.G. Furton, and A. Norelus, An Accurate, Straightforward Visualization Technique for Determining Critical Micelle Concentrations, 204th ACS National Meeting, San Francisco, California, April 5 - 10, 1992.
35. K.G. Furton, E. Jolly, and J. Rein, Selective Elution of Analytes from Solid Phase Extraction Sorbents using Supercritical Fluids, 204th ACS National Meeting, San Francisco, California, April 5 - 10, 1992, Invited Paper for symposium entitled 'Solid Phase Extraction in Environmental and Clinical Chemistry'.
36. K.G. Furton, E. Jolly, and Q. Lin, Variables Affecting the Analytical-Scale Supercritical Fluid Extraction Efficiencies of Environmentally Important Compounds, 1992 Annual Meeting - Florida Sections - American Chemical Society, Cocoa Beach, Florida, April 30 - May 2, 1992.
37. A. Norelus and K.G. Furton, The Gas-Liquid Chromatographic Stationary Phase Properties of Commercial Detergent Powders used as Column Packings, 1993 Society for the Advancement of Chicanos and Native Americans in Science Conference, Albuquerque, New Mexico, January 14 - 18, 1993.

38. C. Ferro Hernandez and K.G. Furton, Comparison of the Physical Properties and Efficacy of Regular and "Ultra" Laundry Detergent Powders, 1993 Society for the Advancement of Chicanos and Native Americans in Science Conference, Albuquerque, New Mexico, January 14 - 18, 1993.
39. E. Jolly, J. Rein and K.G. Furton, The Supercritical Fluid Extraction of Drugs of Abuse from Octadecylsilane Solid Phase Sorbents, 1993 Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Atlanta, Georgia, March 8-12, 1993.
40. K.G. Furton, B. Glickman, C.F. Hernandez, and A. Norelus, The Gas-Liquid Chromatographic Stationary Phase Properties of Alkylbenzenesulfonate Salts, 1993 Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Atlanta, Georgia, March 8-12, 1993.
41. K.G. Furton and Q. Lin, Supercritical Fluid Extraction of Polychlorinated Biphenyls from Solid Phase Sorbents: The Effect of Cell Dimensions, Fluid Flow Rate, and Sorbent Type, 1993 Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Atlanta, Georgia, March 8-12, 1993.
42. K.G. Furton, E. Jolly and Q Lin, Variables Influencing the Supercritical Fluid Extraction of PCBs and PAHs from Solid Phase Sorbents, Invited paper for Environmental Chemistry division symposium "Applications of Supercritical Fluid Extraction" 205th ACS National Meeting, Denver, Colorado, March 28 - April 2, 1993.
43. E. Jolly, K.G. Furton, J. Rein and L. Hearn, The Use of Supercritical Fluids To Elute Drugs From Solid Phase Sorbents, 1993 Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 6 - 8, 1993.
44. K.G. Furton, Advances in Sample Preparation Methods For The Isolation and Concentration of Non-volatile Poisons, Invited speaker for Forensic Chemistry symposium, 1993 Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 6 - 8, 1993.
45. A. Norelus and K.G. Furton, The Development of an Inexpensive, Straightforward Method for Determining Critical Micelle Concentrations With High Accuracy, 1993 Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 6 - 8, 1993.
46. K.G. Furton, L. Chen, Y.-M. Gong, R. Jaffe and C.-W. Huang, The Study of 'Trapped' Analytes in Environmental Solids Using Unconventional Solids and Supercritical Fluids, Invited presentation for special symposium on SFE at the 1993 Southeast Regional American Chemical Society Meeting, Johnson City, Tennessee, October 17 - 20, 1993.
47. P. Cabauy and K.G. Furton, Development of Accurate Straightforward Inexpensive Methods for Determining Critical Micelle Concentrations of Aqueous Surfactant Solutions, NSF National Conference on Diversity in the Scientific and Technological Workplace, Washington, D.C., October 28-30, 1993 (Student won 1st place in undergraduate research paper competition).
48. K. G. Furton, E. Jolly, A.J. Sabucedo, J. Rein and L. Hearn, Supercritical Fluid Extraction in Forensic Toxicology: Potential and Problems, Invited presentation for symposium "SFE and SFC: Current Status and Future Directions", 1993 Eastern Analytical Symposium & Exposition, Somerset, New Jersey, November 14 - 19, 1993.
49. K.G. Furton, R. Jaffe, C.-W. Huang and M.A Sicre, High Temperature SFE for the Recovery of Hydrophobic Organic Compounds from Ancient Sediments, The 5th International Symposium on Supercritical Fluid Chromatography and Extraction, Baltimore, Maryland, January 11 - 14, 1994.

50. K.G. Furton and R. Vichot, Variables Influencing the Reversed-Phase Ion-Pair Chromatography of Haloacetic Acids with Indirect Detection, 1994 Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Chicago, Illinois, February 27 - March 3, 1994.
51. A.J. Sabucedo and K.G. Furton, Selectivity Schemes for the Systematic Choice of Modifiers for Use In Supercritical Fluid Extraction, 1994 FIU GSA Graduate Students Scholarly Forum, Miami, Florida, April 11, 1994.
52. P. Cabauy, A. Norelus, M.L. Sarkees and K.G. Furton, Inexpensive Undergraduate Experiments Demonstrating the Physicochemical Properties of Micellar Solutions, 1994 Joint Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 5 - 7, 1994.
53. A. Norelus and K.G. Furton, The Gas Chromatographic Stationary Phase Properties of Alkylbenzenesulfonate Salts and Commercial Detergents, 1994 Joint Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 5 - 7, 1994.
54. A.J. Sabucedo, E. Jolly, and K.G. Furton, Comparison of Solvent Selectivity Schemes for the Systematic Choice of Modifiers for Use In Supercritical Fluid Extraction, 1994 Joint Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 5 - 7, 1994.
55. C.-W. Huang, K.G. Furton, R. Jaffe, and M.A. Sicre, The Recovery of HOCs from Sediments Using High-Temperature Supercritical Carbon Dioxide Extraction, 1994 Joint Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 5 - 7, 1994.
56. K.G. Furton and S. Rose, Cocaine Contaminated Currency, Invited talk at Metro-Dade Police Department Narcotics Canine Course, Miami, Florida, August 29 - September 2, 1994.
57. K.G. Furton, A. Sabucedo, J. Rein and W.L. Hearn, Supercritical Fluid Extraction/Enzyme Immunoassay for the Rapid Determination of Phenobarbital in Human Liver Tissues, Southern Association of Forensic Scientists - Fall 1994 Meeting, Orlando, Florida, September 7 - 10, 1994.
58. J.R. Almirall, K.G. Furton and J.C. Bruna, A Novel Method for the Analysis of Gasoline from Fire Debris Using Headspace Solid-Phase Microextraction, Southern Association of Forensic Scientists - Fall 1994 Meeting, Orlando, Florida, September 7 - 10, 1994.
59. K.G. Furton, A.J. Sabucedo, E. Jolly, J. Rein and W.L. Hearn, Supercritical Fluid Extraction of Drugs of Abuse from Post-Mortem Fluids and Tissues, Joint Congress of the International Association of Forensic Toxicologists and Society of Forensic Toxicologists, Tampa, Florida, October 31 - November 4, 1994.
60. K.G. Furton, J.R. Almirall, and J.C. Bruna, The Application of Headspace Solid-Phase Microextraction to the Analysis of Accelerants from Fire Debris in Casework (B7), 47th Annual Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 13 - 18, 1995.
61. J.R. Almirall, K.G. Furton and J.C. Bruna, A Novel Method for the Analysis of Accelerants from Fire Debris Using Headspace Solid-Phase Microextraction (B61), 47th Annual Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 13 - 18, 1995.

62. A. Sabucedo, K.G. Furton, J. Rein and W.L. Hearn, Supercritical Fluid Extraction/Enzyme Immunoassay for Determination of Drugs of Abuse in Human Tissue, Pittcon '95, New Orleans, Louisiana, March 5 - 10, 1995, 614.
63. J.C. Bruna, J.R. Almirall and K.G. Furton, The Rapid Ultra-Trace Analysis of Accelerants from Fire Debris Using Headspace Solid-Phase Microextraction, Pittcon '95, New Orleans, Louisiana, March 5 - 10, 1995, 999.
64. A. Norelus and K.G. Furton, Ultra Chromatography: Evaluation of Various Regular and "Ultra" Laundry Detergent Powders Used as Gas Chromatographic Packings., 209th ACS National Meeting, Anaheim, California, April 2 -6, 1995.
65. P. Cabauy, Y. Darici and K.G. Furton, Study of Sulfur Bonding on Gallium Arsenide (100) Surfaces using Supercritical Fluid Extraction, 209th ACS National Meeting, Anaheim, California, April 2 -6, 1995.
66. N. Hajje, R. Jaffe, L. Chen, C.-W. Huang, K.G. Furton and M.A. Sicre, Supercritical Carbon Dioxide Extractions of Geological Samples at Various Temperatures: Preliminary Results, 209th ACS National Meeting, Anaheim, California, April 2 -6, 1995.
67. B. Viniegra, P. Cabauy, K.G. Furton and R. Jaffe, Supercritical Fluid Extractions of Hydrophobic Organic Compounds (HOCs) from Different Solid Phases, 209th ACS National Meeting, Anaheim, California, April 2 -6, 1995.
68. J.C. Bruna, J.R. Almirall, and K.G. Furton, The Application of Direct and Headspace Solid-Phase Microextraction to the Analysis of Forensic Science Casework, 1995 Joint Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 5 - 6 1995.
69. A. Sabucedo, K.G. Furton, J. Rein and W.L. Hearn, Supercritical Fluid Extraction/Enzyme Immunoassay for the Rapid Determination of Drugs in Forensic Toxicology Samples, 1995 Joint Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 5 - 6 1995.
70. A. Norelus, A. Norelus, J. Carranza and K.G. Furton, Undergraduate Laboratory Experiments in Forensic Science Utilizing Consumer Products, 1995 Joint Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 5 - 6 1995.
71. P. Cabauy, Y. Darici and K.G. Furton, The Use of High Temperature Supercritical Fluid Extraction to Study Sulfur Bonding on Gallium Arsenide Semiconductor Surfaces, 1995 Joint Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 5 - 6 1995.
72. D. Diaz, N. Hajje, R. Jaffe, K.G. Furton, C. Eckardt and H.R. Fuentes, Supercritical Fluid Extraction of Geological Samples: Extraction Temperature Dependence and Molecular Speciation, 1995 Joint Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 5 - 6 1995.
73. L. Marbot, R. Jaffe, K.G. Furton, and H.R. Fuentes, Molecular Speciation of Hydrophobic Compounds in Sediments from the Port of Galveston, Texas, 1995 Joint Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 5 - 6 1995.
74. Y. Gong, R. Jaffe and K.G. Furton, Experimental Parameters Controlling the Supercritical Fluid Extraction of Hydrocarbons from Geological Samples, 1995 Joint Annual Meeting - Florida Sections - American Chemical Society, Orlando, Florida, May 5 - 6 1995.

75. J.R. Almirall and K.G. Furton, A Fast and Simple Method for the Analysis of Accelerants From Fire Debris Using Headspace Solid-Phase Microextraction, The International Symposium on the Forensic Aspects of Arson Investigations, Fairfax, Virginia, July 31 - August 4, 1995.
76. R. Jaffe, L. Chen, C.-W. Huang, N. Hajje, K.G. Furton and M.A. Sicre, An Investigation of Hydrocarbon Speciation in Ancient Sediments by Stepwise Supercritical Carbon Dioxide Extraction at Various Temperatures, 17th International Meeting on Organic Geochemistry, Donostia-San Sebastian, The Basque Country, Spain, September 4 - 8, 1995.
77. Y.-L. Hsu, Y.-C. Hong, T. Luo and K.G. Furton, Challenges in the Preparation of Laboratory and Field Samples Used to Determine the Chemical Basis of Cocaine Detection by Canines, International Conference & Exposition Sample Preparation & Hyphenated Techniques in Analytical Separations, Orlando (Haines City), Florida, January 21 - 24, 1996.
78. K.G. Furton, Y.C. Hong and Y.L. Hsu, Development of Multistep Sample Preparation Methods for the Isolation of Non-Volatile Drugs as well as Associated Volatile Chemicals Present in Forensic Specimens, International Conference & Exposition Sample Preparation & Hyphenated Techniques in Analytical Separations, Orlando (Haines City), Florida, January 21 - 24, 1996.
79. J. Bruna, K.G. Furton and J.R. Almirall, A Novel Technique for Recovering Flammable and Combustible Liquid Residues from Aqueous and Solid Fire Debris Samples, International Conference & Exposition Sample Preparation & Hyphenated Techniques in Analytical Separations, Orlando (Haines City), Florida, January 21 - 24, 1996.
80. R. Jaffe, K.G. Furton, D. Diaz, N. Hajje and H.R. Fuentes, Isolation of Hydrocarbons from Geological Samples: High Temperature Supercritical Fluid Extraction, International Conference & Exposition Sample Preparation & Hyphenated Techniques in Analytical Separations, Orlando (Haines City), Florida, January 21 - 24, 1996.
81. A. Sabucedo and K.G. Furton, SFE/EIA and SFE-GC/MS for the Rapid Analysis of Drugs of Abuse from Human Tissues, International Conference & Exposition Sample Preparation & Hyphenated Techniques in Analytical Separations, Orlando (Haines City), Florida, January 21 - 24, 1996.
82. R. Jaffe, K.G. Furton, D. Diaz, N.Hajje, Y. Gong and H.R. Fuentes, Stepwise Supercritical Carbon Dioxide Extraction at Increasing Temperatures: A Tool for Hydrocarbon Speciation Studies in Ancient Sediments, VI Latin American Congress on Chromatography, Caracas, Venezuela, January 21 - 25, 1996.
83. K.G. Furton, Y.-C. Hong, Y.-L. Hsu and S. Rose, Drug Money and Detection Dogs: What Are They Really Smelling and What Does it Mean?, 48th Annual Meeting of the American Academy of Forensic Sciences, Nashville, Tennessee, February 19 - 24, 1996, B12.
84. K.G. Furton, J.R. Almirall, and J.C. Bruna, The Rapid Analysis of Flammable and Combustible Liquid Residues from Fire Debris Using Solid-Phase Microextraction, 48th Annual Meeting of the American Academy of Forensic Sciences, Nashville, Tennessee, February 19 - 24, 1996, B41.
85. J.R. Almirall, M.R. Cole and K.G. Furton, Characterization of Glass Evidence by the Statistical Analysis of their Inductively Coupled Plasma/Atomic Emission Spectroscopy and Refractive Index Data, 48th Annual Meeting of the American Academy of Forensic Sciences, Nashville, Tennessee, February 19 - 24, 1996, B77.

86. K.G. Furton, A. Sabucedo, Joseph Rein and W. Lee Hearn, The Potential and Problems Using Supercritical Fluid Extraction in Forensic Toxicology, Invited Presentation at the 48th Annual Meeting of the American Academy of Forensic Sciences, Nashville, Tennessee, February 19 - 24, 1996, K46.
87. K.G. Furton and A. Sabucedo, The Development of Supercritical Fluid Extraction/Enzyme Immunoassay for Forensic Drug Analysis, Invited Guest Speaker for the 7th International Symposium on Supercritical Fluid Chromatography and Extraction, Indianapolis, Indiana, March 31 - April 4, 1996.
88. K.G. Furton Threshold Levels of Cocaine Odor Detection by K-9's Under Field Conditions, Invited Speaker at the Seventh Annual FAA Southern Region K-9 Conference, Atlanta, Georgia, May 21 - 23, 1996
89. K.G. Furton, Y.-L. Hsu and T. Luo, Statistical Significance of Cocaine Contamination on U.S. and Canadian Currency and Correlation to Detector Dog Alerts to Suspected Drug Money, Third International Conference on Forensic Statistics, Edinburgh, Scotland, June 30 - July 3, 1996. Granted NSF Travel award to attend.
90. K.G. Furton Odor Signatures of Narcotics Analyzed by GC/MS and Threshold Levels of Detection for Drug Detection Canines Under Field Conditions, 14th Meeting of the International Association of Forensic Sciences (IAFS), Tokyo, Japan, August 26 - 30, 1996. Receptient of a Young Investigators' Award.
91. R. Jaffe, L. Marbot, K.G. Furton and H.R. Fuentes, Speciation of Hydrophobic Organic Compounds in Contaminated Sediments – Assessment via Stepwise Supercritical Fluid Extraction, 5th Latin American Congress on Organic Geochemistry, October, 1996, Cancun, Mexico.
92. O.G. Ferreira, H.R. Fuentes, R. Jaffe and K.G. Furton, Supercritical Fluid Extraction of PAH-Contaminated Soils, II International Seminar on Environment and Sustainable Development, Symposium No. 4: 'Energia y Medio Ambiente', October, 1996, Bucaramanga, Columbia.
93. K.G. Furton, A. Sabucedo, J. Rein and W.L. Hearn, Analysis of drugs in human tissues by supercritical fluid extraction/immunoassay, SPIE's First Annual Symposium on Enabling Technologies for Law Enforcement and Security, Boston, Massachusetts, November 19 - 21, 1996.
94. J.R. Almirall, M. Cole, K.G. Furton, and George Gettinby, The Statistical Significance of Trace Evidence Matches Using Independent Physicochemical Measurements, SPIE's First Annual Symposium on Enabling Technologies for Law Enforcement and Security, Boston, Massachusetts, November 19 - 23, 1996.
95. K.G. Furton, Y.-L. Hsu, T. Luo, N. Alvarez and P. Lagos, Novel sample preparation methods and field testing procedures used to determine the chemical basis of cocaine detection by canines, SPIE's First Annual Symposium on Enabling Technologies for Law Enforcement and Security, Boston, Massachusetts, November 19 - 21, 1996.
96. K.G. Furton, Y.-L. Hsu, T. Luo, N. Alvarez and P. Lagos, U.S. Currency Cocaine Speciation and Threshold Levels of Cocaine Odor Detection by K-9, Man and Machines, 49th Annual Meeting of the American Academy of Forensic Sciences, New York, New York, February 17 - 22, 1997, B30.

97. J.R. Amirall, M. Cole, G. Gettinby and K.G. Furton, The Evaluation of the Physicochemical Measurements of Glass Fragments, 49th Annual Meeting of the American Academy of Forensic Sciences, New York, New York, February 17 - 22, 1997, B79.
98. L. San Miguel and K.G. Furton, Comparison of Ion Suppression and Ion-Pair Chromatography of Haloacetic Acid using Direct and Indirect UV and Fluorescence Detection, 1997 Annual Meeting of the Florida Sections - American Chemical Society, Orlando, Florida, May 2 - 3 1997.
99. M. Bi, J.R. Almirall, and K.G. Furton, Potential and Problems in the Analysis of Explosives by Solid-Phase Microextraction followed by HPLC and GC/MS, 1997 Annual Meeting of the Florida Sections - American Chemical Society, Orlando, Florida, May 2 - 3 1997.
100. T. Luo, F. Lopez and K.G. Furton, Diffusion of Volatile Drug Components Under Controlled Experimental Conditions and the Relevance to Detector Dog Alerts to Suspected Drug Money, 1997 Annual Meeting of the Florida Sections - American Chemical Society, Orlando, Florida, May 2 - 3 1997.
101. Y.-L. Hsu and K. G. Furton, Speciation of Cocaine and Methyl Benzoate in Forensic Specimens Studied by SPME/GC/MS/MS, 1997 Annual Meeting of the Florida Sections - American Chemical Society, Orlando, Florida, May 2 - 3 1997.
102. J. Wang, J.R. Almirall, and K.G. Furton, The Influence of Water on the Analysis of Accelerants in Fire Debris Using Direct and Headspace Solid-Phase Microextraction, 1997 Annual Meeting of the Florida Sections - American Chemical Society, Orlando, Florida, May 2 - 3 1997.
103. K.G. Furton, What Chemical Education Background is Required to Land a Job in a Crime Lab?, 1997 Annual Meeting of the Florida Sections - American Chemical Society, Orlando, Florida, May 2 - 3 1997.
104. K.G. Furton, Scientific Investigation of Dog Alerts to Drug Odor Chemicals on Currency, Detection Canine Trainer Certification Course, Organized by K.G. Furton, Supervised by P.W. Gallagher, co-sponsored by the National Forensic Science Technology Center and the International Forensic Research Institute, Miami, Florida, June 9 - 13, 1997
105. K.G. Furton, Introduction to Chemometrics, Basic Trace Evidence Course sponsored by the Florida Crime Laboratory Council, Miami Beach, Florida, June 18-20, 1997. Invited 1 hour lecture.
106. M. Bi, J.R. Almirall and K.G. Furton, The Analysis of Explosives and Explosive Odors by Solid-Phase Microextraction Followed by HPLC and GC/MS, 214th ACS National Meeting, Las Vegas, NV, September 7 – 11, 1997.
107. J. Wang, J.R. Almirall and K.G. Furton, Variables Influencing the Recovery of Ignitable Liquid Residues from Simulated Fire Debris Samples Using Solid-Phase Microextraction, 214th ACS National Meeting, Las Vegas, NV, September 7 – 11, 1997.
108. T. Luo, and K.G. Furton, Evaluation of Solid-Phase Microextraction for the Detection of Cocaine Odors and the Relevance to Drug Dog Detection, 214th ACS National Meeting, Las Vegas, NV, September 7 – 11, 1997.

109. K.G. Furton, K-9's and Currency: Scientific Validation of Alerts, California Narcotic Canine Association Annual Training Conference, Van Nuys, California, October 9-11, 1997. Invited instructor for two 2-hour sessions.
110. K.G. Furton, Chemical Basis of Dog Alerts to Drug Money, Invited talk at University of Central Florida Chemistry Departmental Seminar, Orlando, Florida, October 13, 1997.
111. K.G. Furton, The Chemical Validation of K-9 Alerts to Drug Money, Invited talk at University of Miami Chemistry Departmental Seminar, Miami, Florida, November 21, 1997.
112. Y. Deng, A. Delgado, C. Nolan, X. Fan, K.G. Furton, Y. Zuo and R. Jones, Method Development for the Analysis of Aromatic Acids Using Capillary Zone Electrophoresis, The First SoFLACS Industrial/Academe Symposium on Marine and Environmental Chemistry, Highland Beach, Florida, November 15, 1997.
113. K.G. Furton, The Chemical Basis of Dog Alerts to Drug Odors, Detection Canine Trainer Certification Course, Organized by K.G. Furton, Supervised by P.W. Gallagher, co-sponsored by the National Forensic Science Technology Center and the International Forensic Research Institute, Miami, Florida, January 12 – 16, 1998.
114. Y. Deng, X. Fan, A. Delgado, C. Nolan, K.G. Furton, Y. Zuo and R. Jones, Separation and Quantitative Determination of Phenolic Acids by Capillary Zone Electrophoresis, The Eleventh International Symposium on High Performance Capillary Electrophoresis and Related Microscale Technology (HPCE'98), January 31 – February 5, 1998, Orlando, Florida.
115. K.G. Furton, Training and Research Trends in Materials Analysis, part of workshop on Developments in Trace Evidence Examinations: Interpretation of Material Transfers with J.R. Almirall, K. Lothridge, S.M. Ballou, J.L. Buckle and M.M. Houck, 50th Annual Meeting of the American Academy of Forensic Sciences, San Francisco, California, February 9 - 14, 1998, Workshop #1.
116. K.G. Furton and M.D. Cole, What Educational Background Is Required by Crime Laboratory Directors?, 50th Annual Meeting of the American Academy of Forensic Sciences, San Francisco, California, February 9 - 14, 1998, B11.
117. K.G. Furton, Y.-L. Hsu, T. Luo, F. Lopez and S. Rose, Diffusion Studies and SPME/GC/MS/MS Analysis of Volatile Drug Components and the Relevance to Detector Dog Alerts to Suspected Drug Money, 50th Annual Meeting of the American Academy of Forensic Sciences, San Francisco, California, February 9 - 14, 1998, B49.
118. J.R. Almirall, J. Wang and K.G. Furton, Variables Controlling the Recovery of Ignitable Liquid Residues from Simulated Fire Debris Samples Using Solid Phase Microextraction/Gas Chromatography, 50th Annual Meeting of the American Academy of Forensic Sciences, San Francisco, California, February 9 - 14, 1998, B70.
119. J.R. Almirall, G. Bi and K.G. Furton, The Analysis of High Explosives Residues by Solid-Phase Microextraction Followed by HPLC, GC/ECD and GC/MS, 50th Annual Meeting of the American Academy of Forensic Sciences, San Francisco, California, February 9 - 14, 1998, B71.

120. J. Hudson, R. Knabe, K.G. Furton and S. Rose, Panel: Airport Searches and Canine Cases, Invited talk at U.S. Department of Justice Advanced Asset Forfeiture Seminar, Charleston, South Carolina, February 17-19, 1998.
121. A. Norelus, K.G. Furton, Y.L. Hsu, T. Luo, F. Lopez and S. Rose, Analysis of Volatile Cocaine Components and the Relevance to Detector Dog Alerts to Suspected Drug Money, paper 60a, 215th ACS National Meeting, Dallas, Texas, March 29 – April 2, 1998.
122. L. Wu, M. Bi, J.R. Almirall and K.G. Furton, Optimization of SPME for the Recovery of Explosives Followed by Gas and Liquid Chromatographic Analysis, FAME98 (ACS Florida Annual Meeting and Exposition), Orlando, Florida, May 8 – 9, 1998.
123. D.C. Duckworth, D.C. Bayne, S.J. Morton, D.H. Smith, J.R. Almirall, R.D. Koons and K.G. Furton, Elemental Analysis of Forensic Glasses by Inductively Coupled Plasma Mass Spectrometry, 46th ASMS Conference on Mass Spectrometry and Allied Topics, Orlando, Florida, May 31 - June 4, 1998.
124. R. Knabe, S. Rose and K.G. Furton, Scientific Validation of the Uses of Canines in Forefeiture Cases, Invited speaker at the U.S. Department of Justice Southwest Border/Asset Forfeiture Financial Investigations Seminar, Albuquerque, New Mexico, June 23-25, 1998.
125. C.M. Lopez, J. Lopez, R. Jaffe and K.G. Furton, High Pressure Water/Solid Phase Microextraction of Hydrocarbons from Geological Samples, 216th ACS National Meeting, Boston, MA, August 23-27, 1998.
126. K.G. Furton, Scientific Evaluation of K-9 Alerts to Currency and Comparison to an Electronic Nose, California Narcotic Canine Association Annual Training Conference, Van Nuys, California, October 7-10, 1998. Invited instructor for two 2-hour sessions.
127. R. Knabe, S. Rose and K.G. Furton, Practical and Legal Implications of the Use of Canines in Search and Seizure Operations, Invited speaker at the Florida Association of Police Attorneys (FAPA) Legal Update Seminar, Long Boat Key, Florida, November 5 - 6, 1998.
128. K.G. Furton, Optimized Analysis of Narcotic, Explosive and Accelerant Residues from Forensic Specimens Using SPME Combined with Chromatographic Separation and Spectroscopic Identification, Invited talk at Chemical and Analytical Sciences Division Seminar, Oak Ridge National Laboratory, Oak Ridge, Tennessee, January 26, 1999.
129. K.G. Furton, Location and identification of drug money, accelerants and explosives by odor signatures using K-9s and instrumental analysis, Invited talk at Chemical Science and Technology Division Seminar, Los Alamos National Laboratory, Los Alamos, New Mexico, February 3, 1999.
130. K.G. Furton, New Developments in Forensic Chemistry, Invited speaker at the multidisciplinary symposium: An Overview of the Forensic Sciences: Where Have We Been and Where are We Going?, 51st Annual Meeting of the American Academy of Forensic Sciences, Orlando, Florida, February 15- 20, 1999.
131. K.G. Furton, Y.-L. Hsu, T. Luo, and S. Rose, Comparisons of Sensitivity and Reliability of Cocaine Odor Detection on Currency Using Chemical Sensors, Humans, SPME/GC/MS/MS Analysis and K9 Detection, 51st Annual Meeting of the American Academy of Forensic Sciences, Orlando, Florida, February 15- 20, 1999, B28.

132. K.G. Furton and M.D. Cole, What is the Ideal Criminalistics Curricula? Invited speaker at The Future of Education in the Forensic Sciences Symposium, 51st Annual Meeting of the American Academy of Forensic Sciences, Orlando, Florida, February 15- 20, 1999, B35.
133. K.G. Furton, L. Wu, J.R. Almirall, J. Wang and G. Bi, The Analysis of High Explosives and Ignitable Liquid Residues by Solid Phase Microextraction Combined with Chromatographic Analysis, 51st Annual Meeting of the American Academy of Forensic Sciences, Orlando, Florida, February 15- 20, 1999, B66.
134. J.R. Almirall, R.D. Koons, D.C. Duckworth, C.K. Bayne, S.J. Morton and K.G. Furton, The Forensic Analysis of Glass Fragments by ICP-MS, Pittcon '99, Orlando, Florida, March 7 - 12, 1999, 606.
135. K.G. Furton, Y.-L. Hsu, T. Luo, A. Norelus and S. Rose, Detection and Quantitation of Cocaine Odor Chemicals on US Paper Currency Using Chemical Sensors, Detector Dogs and SPME/GC-MS-MS Analysis, Pittcon '99, Orlando, Florida, March 7 - 12, 1999, 676.
136. J.Wang, J.R. Almirall, K. Lothridge and K.G. Furton, The Rapid Determination of of Accelerant Residues in Fire Debris Samples and on Human Skin Using Solid Phase Microextraction/Gas Chromatography, Pittcon '99, Orlando, Florida, March 7 - 12, 1999, 1705P.
137. L.Wu, G. Bi, M.W. Shannon, J.R. Almirall and K.G. Furton, Rapid Extraction and Quantitation of Explosives in Water and Post-Explosion Residues Using SPME/GC/ECD/MS and SPME/HPLC/UV/MA Analysis, Pittcon '99, Orlando, Florida, March 7 - 12, 1999, 1706P.
138. R. Knabe, S. Rose and K.G. Furton, Money Seizures and the Use of Canines, U.S. Invited talk at Customs Service Academy Asset Forfeiture Financial Investigations Seminar, San Antonio, Texas, March 16 - 26th, 1999.
139. N.M. Sanchez, E. Hernandez, D. Aquilar, Z.C. Morales-Martinez, K.G. Furton and K. O'Shea, Five Consecutive Years of Outstanding Recognition of the Florida International University American Chemical Society Student Affiliate Chapter, 217th ACS National Meeting, Anaheim, California, March 21-25, 1999.
140. K.G. Furton, S. Rose and R.C. Pixler, Significance of a Dog Alert in a Forfeiture Case, Invited speaker at the U.S. Department of Justice Southwest Border/Asset Forfeiture Financial Investigations Seminar, Phoenix, Arizona, April 6-8, 1999.
141. K.G. Furton, Chemometrics Applied to Trace Evidence, Invited speaker at the National Forensic Science Technology Center "Trace Evidence Workshop", May 10-12, 1999, Miami, Florida.
142. K.G. Furton and S. Rose, Cocaine Detection on Currency by Detection K9's/K9 Olfaction and Scent Recognition, Invited speaker at the Pacific Northwest Police Detection Dog Association Narcotics Detection Dog Seminar and Clinic, Mt. Vernon, Washington, May 13-17th, 1999.
143. Y.-L. Hsu, J. Walton, C. Lopez, S. Rose and K.G. Furton, Applying the Scientific Method to the Determination of the Reliability of Law Enforcement Canines Used as Chemical Detectors, FAME99 (ACS Florida Annual Meeting and Exposition), Orlando, Florida, May 8 - 9, 1999.

144. B. Memari, S. Rose and K.G. Furton, Variable Affecting the Analytical Precision and Accuracy of the Intoxilyzer 5000, FAME99 (ACS Florida Annual Meeting and Exposition), Orlando, Florida, May 8 – 9, 1999.
145. J. Almirall, A. Bouza, K.G. Furton, D. Duckworth, S. Morton, C. Bayne and R. Koons, Discrimination Power of ICP-MS in the Forensic Analysis of Glass Fragments, 47th ASMS Conference on Mass Spectrometry and Allied Topics, Dallas, Texas, June 13 - 17, 1999.
146. S.L. Ellison, S. Rose and K.G. Furton, Money Seizures and the Use of Canines, Invited speaker at U.S. Customs Service Academy Asset Forfeiture/Financial Investigations Seminar, Jacksonville, Florida, June 15-25, 1999.
147. K.G. Furton, The Physiological and Chemical Basis of K9 Alerts to Drug Odor Signatures, International Narcotics Interdiction Association SKYNARC 1999 Conference, Ft. Lauderdale, Florida, June 13-16, 1999.
148. K.G. Furton, J. Almirall, S. Rose and K. Lothridge, Development, Implementation and Management of a Scientifically Sound Program to Determine and Certify the Reliability of Law Enforcement Canines Used as Chemical Detectors, 15th Triennial Meeting of the International Association of Forensic sciences (IAFS), August 22-28, 1999.
149. K.G. Furton, B. Memari and S. Rose, Statistical Evaluation of the Relative Influence of Variables Affecting the Precision and Accuracy of Breath Alcohol Concentration Measurements Using the Intoxilyzer 5000, 15th Triennial Meeting of the International Association of Forensic sciences (IAFS), August 22-28, 1999.
150. K.G. Furton, Fundamentals of Drug Analysis, Fire Debris Analysis and Toxicology, Invited Speaker for U.S. Customs Forensic Science Training Class hosted by the National Forensic Science Technology Center (NFSTC), St. Petersburg, FL, September 15 – 29, 1999.
151. D.C. Duckworth, C.K. Bayne, S.J. Morton, J. Almirall, K.G. Furton and R.D. Koons, Discrimination of Glass Fragments by ICP-MS, 50th Anniversary Southeast Regional Meeting of the American Chemical Society (SERMACS-99), Knoxville, Tennessee, October 17-20, 1999.
152. J.R. Almirall and K.G. Furton, Forensic and Toxicology Applications: Ignitable Liquid Residues, Explosives and Drug analysis by SPME, invited paper in the Advances in Solid Phase Microextraction Session of the 1999 Eastern Analytical Symposium, Somerset, New Jersey, November 14 - 19, 1999.
153. K.G. Furton, Scientific Validation of Dog Alerts to Drug Odor Chemicals on Forfeiture Money, California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 12-15, 2000. Invited instructor for two 2-hour sessions.
154. X. Fan, Y. Deng, L. Wu, J. Wang, R. Nossen, K.G. Furton and J.R. Almirall, Rapid Extraction and Quantitation of Explosives in Water and Post-Explosion Residues Using SPME/GC/ECD, SPME/HPLC/UV and SPME/MECC Analysis, 52nd Annual Meeting of the American Academy of Forensic Sciences, Reno, Nevada, February 21- 26, 2000. B3
155. J. Walton, Y.-L. Hsu, C. Lopez, J.R. Almirall, S. Rose, K. Lothridge and K.G. Furton, Development of a Scientific Protocol to Evaluate and Certify the Sensitivity and Reliability of Chemical(s) Odor

- Detection by Canines, 52nd Annual Meeting of the American Academy of Forensic Sciences, Reno, Nevada, February 21- 26, 2000. B9
156. S. Montero, K.G. Furton, D.C. Duckworth, S.J. Morton, C.K. Bayne, R.D. Koons and J.R. Almirall, Advances in Elemental Analysis of Glass by ICP-MS, 52nd Annual Meeting of the American Academy of Forensic Sciences, Reno, Nevada, February 21- 26, 2000. B32
 157. Y. Deng, X. Fan, K.G. Furton and Y. Zuo, Separation and Identification of Aromatic Acids in Soil and Sediment Samples Using Solid-Phase Microextraction Followed by Capillary Electrophoresis, Pittcon 2000, New Orleans, LA, March 12 - 17, 2000, 1897P.
 158. Y. Deng, X. Fan, K.G. Furton and Y. Zuo, Analysis of Phenolic Antioxidants in Chianti Red Wine and Cranberry Juice by Solid-Phase Microextraction and Capillary Electrophoresis, Pittcon 2000, New Orleans, LA, March 12 - 17, 2000, 1898P.
 159. J.R. Almirall, K.G. Furton, D.C. Duckworth, S.J. Morton, C.K. Bayne, S. Montero, Trace-elemental analysis of forensic glass samples by ICP-MS, 219th ACS National Meeting, San Francisco, CA, March 26-30, 2000 Paper 108.
 160. C. Lopez, J. Walton, Y.-L. Hsu, J. Wang, S. Rose, K.G. Furton, Isolation, identification, quantitation, and confirmation of volatile odor signature chemicals in controlled substances and high explosives. 219th ACS National Meeting, San Francisco, CA, March 26-30, 2000. Paper 523.
 161. J.R. Almirall, R.M. Nossen, X. Fan, Y. Deng, L. Wu, J. Wang, K.G. Furton, Quantitation of high explosives extracted from postblast residues using SPME/GC/ECD, SPME/HPLC/UV, and SPME/MECC analysis, 219th ACS National Meeting, San Francisco, CA, March 26-30, 2000. Paper 540.
 162. K.G. Furton and J.R. Almirall, Analytical Chemistry Applications in Forensic Science: New Methods and Method Development, FAME 2000 (Florida Annual ACS Meeting and Exposition), Orlando, Florida, May 12 and 13, 2000. Invited speaker and presider over Forensic Chemistry Symposium.
 163. K.G. Furton, B. Memari and S. Rose, Evaluation of the Analytical and Biological Variables Affecting the Precision and Accuracy of Breath Alcohol Instruments Including the Inoxylyzer 5000, FAME 2000 (Florida Annual ACS Meeting and Exposition), Orlando, Florida, May 12 and 13, 2000.
 164. A. Sabucedo, E. Jolly, J. Rein, W.L. Hearn and K.G. Furton, The Utility of Solvent Selectivity Schemes for the Optimization of Supercritical Fluid Extraction of Drugs from Model Sorbents and Post Mortem Tissues, FAME 2000 (Florida Annual ACS Meeting and Exposition), Orlando, Florida, May 12 and 13, 2000.
 165. S. Montero, J.R. Almirall, K.G. Furton, D.C. Duckworth, S.J. Morgan and R.D. Coons, Trace Elemental Analysis of Forensic Glass by ICP-MS, FAME 2000 (Florida Annual ACS Meeting and Exposition), Orlando, Florida, May 12 and 13, 2000.
 166. J. Walton, C. Lopez, J. Wang, Y.-L. Hsu, L.J. Myers and K.G. Furton, Comparison of the Identification of Volatile Odor Signatures Chemicals from Narcotics and High Explosives Using Canines and Instruments, FAME 2000 (Florida Annual ACS Meeting and Exposition), Orlando, Florida, May 12 and 13, 2000.

167. J. Wang, L. Wu, J.R. Almirall and K.G. Furton, The Application of Solid-Phase Microextraction to the Recovery of Accelerants and Explosive Traces from Forensic Specimens, FAME 2000 (Florida Annual ACS Meeting and Exposition), Orlando, Florida, May 12 and 13, 2000.
168. Y.-L. Hsu, S. Rose and K.G. Furton, Isolation and Quantitation of Drug Odor Chemicals and Free Fraction Drugs Using SPME/GC/MS/MS, FAME 2000 (Florida Annual ACS Meeting and Exposition), Orlando, Florida, May 12 and 13, 2000.
169. J.R. Almirall and K.G. Furton, Application of Solid Phase Microextraction to the Recovery of Explosive Residues from Post Blast Debris, Invited paper for symposium "Detection of Explosives: Challenges for Chemists", 220th ACS National Meeting, Washington, D.C., August 20-24, 2000.
170. K.G. Furton, Scientific Validation of Dog Alerts to Suspected Drug Money, invited talk at the Asset Forfeiture Seminar, Mid-Atlantic Narcotics Training Academy, Ft. Fisher, North Carolina, November 7-9, 2000.
171. K.G. Furton, K-9's & Currency: The Scientific Foundations and Efficacy of the Use of Canines as Chemical Detectors for Narcotics, California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 11-13, 2001. Invited instructor for two 2-hour sessions.
172. K.G. Furton, J.R. Almirall, J. Wang and Y.-L. Hsu, Standardization of SPME Methods for Forensic Analysis including Arson and Explosives, Invited paper for the Sixth International Conference on Sample Preparation, January 21-24, 2001, Amelia Island, Florida, U.S.A.
173. A.J. Sabucedo, J. Almirall and K.G. Furton, Analysis of Flammables and Explosive Residues, Invited talk at workshop W4 "An Introduction to Solid-Phase Microextraction – Forensic Applications", 53rd Annual Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 19- 24, 2001.
174. K.G. Furton, Forensic Sciences at Florida International University, One of four invited Academic Program Directors for Young Forensic Scientists Forum "Expectations and Realities for Forensic Science Employment", 53rd Annual Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 19- 24, 2001.
175. K.G. Furton, J. Almirall and D.C. Duckworth, Discrimination of Forensic Glasses via Trace Element Analysis by Inductively Coupled Plasma Mass Spectrometry, National Institute of Justice Investigative and Forensic Science Division 2001 Program Meeting, Seattle, Washington, February 21, 2001.
176. Y.-L. Hsu, J. Walton, C. Lopez, S. Rose and K.G. Furton, The Analysis of Drug Odor Signatures and Free Fraction Drugs from Plasma Using SPME/GC/MS, 53rd Annual Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 19- 24, 2001, B57.
177. X. Fan, Y. Deng, L. Wu, J. Wang, J.R. Almirall and K.G. Furton, Critical Evaluation of SPME for the Rapid Analysis of High Explosives in Water and Post-Explosion Residues Combined with Separation Methods Including GC, HPLC, and MECC, 53rd Annual Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 19- 24, 2001, B66.
178. J. Wang, M.D. Plasencia, K.G. Furton, and J.R. Almirall, A Comprehensive Approach to the Extraction, Detection, and Identification of Compounds from Ignitable Liquid Residues Using

- SPME-GC-MS-MS, 53rd Annual Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 19- 24, 2001, B67.
179. K.G. Furton, Comparison of Instrumental and K-9 Detection of Explosives and Drug Odors from Forensic Specimens, invited speaker for Symposium “Catching Crooks with Chemistry”, The Pittsburgh Conference 2001, New Orleans, LA, March 4-9, 2001.
180. K.G. Furton, The Law and Science of Detector Dogs and How it Relates to the Drugs on Your Money, invited Featured Speaker for FIU Faculty Lunchtime Symposium, FIU Faculty Club, March 29, 2001
181. K.G. Furton, Identification of Drug Money Using Biological and Instrumental Chemical Detectors: K9s and SPME/GC/MS/MS, Invited talk at Departmental Seminar, Department of Chemistry and Biochemistry, Ohio University, Athens, Ohio, April 13, 2001
182. K.G. Furton, K-9s and Currency: Scientific Validation of Dog Alerts to Drug Odor Chemicals on Forfeiture Money, invited Featured Speaker at the Pacific Northwest Police Detection Dog Association Narcotics Interdiction Seminar, Vancouver, British Columbia, Canada, May 7th – 10th, 2001. K.G. Furton and S. Rose, K9 Olfaction and Scent Recognition: Odor Signature Chemicals of Methamphetamine and 3,4-Methylenedioxy-N-Methylamphetamine (Ecstasy), invited Featured Speaker at the Pacific Northwest Police Detection Dog Association Narcotics Interdiction Seminar, Vancouver, British Columbia, Canada, May 7th – 10th, 2001.
184. N. Lorenzo, V. Cabrera, J. Prieto, J. Walton, Y.-L. Hsu and K.G. Furton, Identification of Canine Active Odor Signature Chemicals from Currency and Street Narcotics Including 3,4-Methylenedioxy-N-Methylamphetamine (Ecstasy), Florida Annual Meeting and Exposition (FAME), Orlando, Florida, May 11 & 12, 2001. K.G. Furton, Norma Lorenzo, Ya-Li Hsu, Claudia Lopez, John Walton and Jose Almirall, Instrumental and K-9 Detection of Explosives, Drugs and Ignitable Liquid Residues, Florida Annual Meeting and Exposition (FAME), Orlando, Florida, May 11 & 12, 2001.
186. J. Wang, J.R. Almirall and K.G. Furton, The Application of SPME/GC/MS/MS to the Detection of Ignitable Liquid Residues from Fire Debris, Florida Annual Meeting and Exposition (FAME), Orlando, Florida, May 11 & 12, 2001. 187. K.G. Furton, K-9 alerts to “drug” money, 2nd National Detector Dog Conference: Training Aids and Certification Standards for the New Millennium, North Miami Beach, Florida, May 22-25, 2001. K.G. Furton, J. Wang and J.R. Almirall, Determination of Active Odor Signature Chemicals and the Efficacy of the Use of Canines as Chemical Detectors for Explosives, 7th International Symposium on the Detection and Analysis of explosives, Edinburgh, Scotland, U.K. June 25-28, 2001.
188. J. R. Almirall and K.G. Furton, Fast Extraction of High Explosives from Water and Post-Blast Residues Using Solid-Phase Microextraction (SPME) for GC, HPLC and MECC Analyses, 7th International Symposium on the Detection and Analysis of explosives, Edinburgh, Scotland, U.K. June 25-28, 2001.
189. K.G. Furton, The Science of Currency Alerts, Invited speaker for two two hour talks, International Narcotics Interdiction Association 11th Annual Training Conference, Washington, D.C. July 15-18, 2001.
190. K.G. Furton, K-9’s & Currency: The Scientific Foundations and Efficacy of the Use of Canines as Chemical Detectors, California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 9-11, 2002. Invited instructor for two 2-hour sessions.

191. K.G. Furton, K-9 Alerts to Drug Money & the Designer Drug “MDMA”, invited speaker at the Advanced K-9 Narcotics Seminar, Police K-9 Training Institute, Ft. Lauderdale, Florida, January 14-18, 2002.
192. K.G. Furton, The importance of scientific research, proper training aids and a standardized certification program for reliable canine detection, invited speaker at the 2nd International Termite Detector Dog Association Conference, Clearwater, Florida, January 17-19, 2002.
193. J.R. Almirall, S. Montero and K.G. Furton, Association of Glass Fragments by their Trace Elemental Content Using ICP-MS and LA-ICP-MS in the Analysis Scheme, paper in session “Forensic Science: Technologies and Systems” of “Enabling Technologies for Law Enforcement and Security” program at SPIE’s 16th Annual International Symposium on Aerospace/Defense Sensing, Simulation and Controls, Orlando, Florida, April 1-5, 2002.
194. K.G. Furton, T. Wan, R.J. Harper and J.R. Almirall, Analytical Techniques to Validate Explosive Detector Dogs for Evidentiary Purposes, paper in session “Forensic Science: Technologies and Systems” of “Enabling Technologies for Law Enforcement and Security” program at SPIE’s 16th Annual International Symposium on Aerospace/Defense Sensing, Simulation and Controls, Orlando, Florida, April 1-5, 2002.
195. A. Benson , A. Sabucedo , J. Almirall , K. G. Furton , Detection and identification of illicit drugs including GHB, rohypnol, ketamine, and psilocybin by refocused solid-phase microextraction high-performance liquid chromatography mass spectrometry, 223rd ACS National Meeting, Orlando, FL, ANYL 54, April 7-11, 2002.
196. N. Lorenzo , Y-L. Hsu , K. G. Furton, Identification of Canis familiaris active odor signature chemicals in methamphetamine and 3,4-methylenedioxy-N-methylamphetamine (Ecstasy), 223rd ACS National Meeting, Orlando, FL, ANYL 84, April 7-11, 2002.
197. Y-L. Hsu , S. Rose , K. G. Furton, Determination of the free fraction of protein-bound drugs using valproic acid in clinical samples by solid-phase microextraction GC/MS, 223rd ACS National Meeting, Orlando, FL, ANYL 143, April 7-11, 2002.
198. K.G. Furton, N. Lorenzo, Y.-L. Hsu, T. Wan and B. Young, Use of Detector Dogs for the Accurate Location and Collection of Forensic Evidence, Invited speaker for special session “Forensic Science Symposium and Hands-on Activity”, 223rd ACS National Meeting, Orlando, FL, April 7-11, 2002.
199. K.G. Furton, K-9 Olfaction and active odor signature chemicals in methamphetamine and 3,4-methylenedioxy-N-methylamphetamine (Ecstasy), invited Featured Speaker at the Pacific Northwest Police Detection Dog Association Narcotics Interdiction Seminar, Vancouver, British Columbia, Canada, May 6th – 10th, 2002.
200. N. Lorenzo, R.J. Harper, Y.-L. Hsu, J.R. Almirall and K.G. Furton, Identification of Canis Familiaris Active Odor Signature Chemicals from Narcotics and Explosives Employing Headspace SPME/GC/MS, 16th Australia and New Zealand Forensic Science Society (ANZFSS) International Symposium on the Forensic Sciences, Canberra, Australia, May 12-17, 2002.
201. K.G. Furton and A.J. Sabucedo, Determination of Time Since Death by Fragmentation of Cardiac Troponin I, 16th Australia and New Zealand Forensic Science Society (ANZFSS) International Symposium on the Forensic Sciences, Canberra, Australia, May 12-17, 2002.

202. K.G. Furton, What Educational Background Do Crime Lab Directors Require? – USA Perspective, invited speaker at the “Forensic Education and Training Forum” 16th Australia and New Zealand Forensic Science Society (ANZFSS) International Symposium on the Forensic Sciences, Canberra, Australia, May 12-17, 2002.
203. K.G. Furton, Explosive Residue Analysis and Odour Signature Analysis by SPME, invited instructor at “Practice and Applications of SPME Workshop”, 16th Australia and New Zealand Forensic Science Society (ANZFSS) International Symposium on the Forensic Sciences, Canberra, Australia, May 12-17, 2002.
204. A. Benson, A.J. Sabucedo, Y.-L. Hsu, L. Wu, J.R. Almirall and K.G. Furton, The Analysis of Thermally Labile Forensic Specimens Including Explosives and Illicit Drugs Using SPME/HPLC/MS, 16th Australia and New Zealand Forensic Science Society (ANZFSS) International Symposium on the Forensic Sciences, Canberra, Australia, May 12-17, 2002.
205. K.G. Furton and A.J. Sabucedo, Cardiac Troponin I : A Time of Death Marker, 16th Meeting of the International Association of Forensic Sciences, Montpellier, France, September 2-7, 2002.
206. N. Lorenzo, Y.-L. Hsu and K.G. Furton, Identification of Active Odor Signature Chemicals in 3,4-Methylenedioxy-N-Methylamphetamine (Ecstasy) Using Canis Familiaris as Biological Detectors, 16th Meeting of the International Association of Forensic Sciences, Montpellier, France, September 2-7, 2002.
207. R.J. Harper, J.R. Almirall and K.G. Furton, A Comprehensive Study of the Scientific Foundation of Explosive Detector Dog Performance, 16th Meeting of the International Association of Forensic Sciences, Montpellier, France, September 2-7, 2002.
208. K.G. Furton, S. Rose and Y.-L. Hsu, The Determination of the Free Fraction of Protein Bound Drugs Including Valproic Acid in Clinical Samples by Solid Phase Microextraction(SPME) GC/MS, 16th Meeting of the International Association of Forensic Sciences, Montpellier, France, September 2-7, 2002.
209. K.G. Furton, ID of Unique Odor Chemicals from Narcotics, Explosives and Training Aids and the Legal Significance, California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 15-17, 2003. Invited instructor for two 2-hour sessions.
210. K.G. Furton, Recent Advances in Field Sampling in Forensic Science Including the Use of Detector Dogs, Invited featured speaker at the Forensic Sciences Symposium – South Florida ACS, Nova Southeastern University, Ft. Lauderdale January 18, 2003.
211. R. Harper and K.G. Furton, Identification of Active Odor Signatures from Bomb Dogs, Forensic Sciences Symposium – South Florida ACS, Nova Southeastern University, Ft. Lauderdale January 18, 2003.
212. A. Sabucedo and K.G. Furton, Development of a Time of Death Marker Based on Cardiac TroponinI, Forensic Sciences Symposium – South Florida ACS, Nova Southeastern University, Ft. Lauderdale January 18, 2003.

213. Y.-L. Hsu and K.G. Furton, Analysis of Antipsychotic Drugs from Biological Samples Using Nonequilibrium SPME/GC/MS/MS, Forensic Sciences Symposium – South Florida ACS, Nova Southeastern University, Ft. Lauderdale January 18, 2003
214. J.M. Perr, C.J. Diaz, K.G. Furton and J.R. Almirall, The Analysis of Ignitable Liquid Residues and Explosive Material Using SPME/GC/MS/MS”, American Academy of Forensic Sciences Annual Meeting, Chicago, Illinois, February 17-22, 2003.
215. R.J. Harper, J.R. Almirall and K.G. Furton, A Comprehensive Study of the Scientific Foundation of Explosive Detector Dog Performance, American Academy of Forensic Sciences Annual Meeting, Chicago, Illinois, February 17-22, 2003.
216. N. Lorenzo, Y.-L. Hsu and K.G. Furton, Identification of active odor signature chemical in methamphetamine and 3,4-methylenedioxy-N-methamphetamine (ecstasy) using *canis familiaris* as biological detectors, B28, American Academy of Forensic Sciences Annual Meeting, Chicago, Illinois, February 17-22, 2003.
217. A.J. Benson, A. Sabucedo and K.G. Furton, Detection and Identification of Date Rape Drugs Directly from Simulated Tampered Beverages Using Solid Phase Microextraction (SPME) High-Performance Liquid Chromatography Mass Spectrometry (HPLC/MS), B13, American Academy of Forensic Sciences Annual Meeting, Chicago, Illinois, February 17-22, 2003.
218. A.J. Sabucedo and K.G. Furton, Determination of Time Since Death – Cardiac Troponin I, G77, American Academy of Forensic Sciences Annual Meeting, Chicago, Illinois, February 17-22, 2003.
219. C. Lopez, J. Walton, Y.-L. Hsu, R. Harper and K.G. Furton, Identification of *Canis familiaris* active odor signature chemicals in controlled substances and high explosives, The 225th ACS National Meeting, New Orleans, LA, March 23-27, 2003
220. J.R. Almirall, T. Trejos, A. Hobbs and K.G. Furton, Trace elemental analysis of glass and paint samples of forensic interest by ICP-MS using Laser Ablation solid sample introduction, in Sensors and C3I Technologies for Homeland Defense and Law Enforcement, SPIE’s 17th Annual International Symposium on Aerospace/Defense Sensing, Simulation and Controls, Orlando, Florida, April 21-25, 2003.
221. K.G. Furton, R.J. Harper, J. M. Perr and J.R. Almirall, Optimization of biological and instrumental detection of explosives and ignitable liquid residues including canines, SPME/ITMS and GC/MSⁿ, in Sensors and C3I Technologies for Homeland Defense and Law Enforcement, SPIE’s 17th Annual International Symposium on Aerospace/Defense Sensing, Simulation and Controls, Orlando, Florida, April 21-25, 2003.
222. K.G. Furton, N. Lorenzo, Y.-L. Hsu, R. Harper, S. Tolliver and J.R. Almirall, SPME/GC/MS Combined with Field Experiments Used to Identify Active Odor Signature Chemicals Used By Detector Dogs to Locate Forensic Specimens, Florida ACS Annual Meeting and Exposition (FAME), Orlando, Florida May 8-10, 2003.
223. R.J. Harper, J.R. Almirall and K.G. Furton, Biological Detection of Explosives by *Canis Familiaris*: A Scientific Approach, Florida ACS Annual Meeting and Exposition (FAME), Orlando, Florida May 8-10, 2003.

224. J.M. Perr, K.G. Furton, and J.R. Almirall, Design and Testing of a SPME/IMS Interface for Identification and Detection of Explosives, Florida ACS Annual Meeting and Exposition (FAME), Orlando, Florida May 8-10, 2003.
225. S. Tolliver, M. Chow and K.G. Furton, Identification of Canis Familiaris Active Odor Signature Chemicals in Human Remains, Florida ACS Annual Meeting and Exposition (FAME), Orlando, Florida May 8-10, 2003.
226. J.R. Almirall and K.G. Furton, Trends in Forensic Science Education: Expansion and Increased Accountability; A Report on the Forensic Education Programs Accreditation Committee (FEPAC) of the AAFS, Florida ACS Annual Meeting and Exposition (FAME), Orlando, Florida May 8-10, 2003.
227. A.J. Sabucedo, and K.G. Furton, Estimation of Postmortem Interval using Cardiac Troponin I, Florida ACS Annual Meeting and Exposition (FAME), Orlando, Florida May 8-10, 2003.
228. K.G. Furton, The Identification of Canis Familiaris Active Odor Signature Chemicals in Pseudos, Simulants and Actual Items Including Cocaine and MDMA, 3rd National Detector Dog Conference: The Expanding Role of Detection Canines in Homeland Security, North Miami Beach, Florida, May 19-23, 2003.
229. K.G. Furton, Y.-L. Hsu, A. Benson, and A.J. Sabucedo, Forensic Applications of Extractionless GC/MS, SPME-GC/MSⁿ and SPME-LC/MS including Drug Detection in Beverages and Free Fraction Toxicological Analysis in Biological Samples, WeC-167, 16th International Mass Spectrometry Conference (IMSC), Edinburgh, Scotland, August 31st - September 5th 2003.
230. J.M. Perr, K.G. Furton and J.R. Almirall, Development of a SPME/IMS Interface and Method for the Detection of Explosive Compounds, WeC-171, 16th International Mass Spectrometry Conference (IMSC), Edinburgh, Scotland, August 31st - September 5th 2003.
231. Jose Almirall, Kenneth G. Furton, Mass Spectrometry in Forensic Science, 16th International Mass Spectrometry Conference (IMSC), Edinburgh, Scotland, August 31st - September 5th 2003.
232. Ross Harper, J.R. Almirall and K.G. Furton, Investigation of Canis Familiaris as Biological Detectors for Explosives Using Headspace SPME-GC-MS Analysis 16th International Mass Spectrometry Conference (IMSC), Edinburgh, Scotland, August 31st - September 5th 2003.
233. K.G. Furton, Laboratory and field experiments used to identify the odor signature chemicals used by detector dogs to locate drugs, explosives and humans, Invited speaker at the 3rd International Working Dog Breeding Conference, San Antonio, Texas, October 5-8, 2003.
234. A.J. Sabucedo and K.G. Furton, Extraction of Cardiac Troponin I from Muscle Tissue with Carboxylate Magnetic Microparticles, The 30th Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Ft. Lauderdale, Florida, October 19 - 23, 2003.
235. S. Tolliver, M. Chow, K.G. Furton, Identification of Canis Familiaris Active Odor Signature Chemicals in Human Remains, The 30th Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Ft. Lauderdale, Florida, October 19 - 23, 2003.
236. A. Curran and K.G. Furton, Laboratory and field experiments used to identify the uniqueness of human scent identified by canines, SPME/GC/MS and SPME/LC/MS, The 30th Annual Meeting

- of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Ft. Lauderdale, Florida, October 19 - 23, 2003.
237. K.G. Furton, N. Lorenzo, R. Harper, Y.-L. Hsu, S. Tolliver, A. Curran, J.R. Almirall Laboratory and field experiments used to identify canis lupus var. familiaris active odor signature chemicals from drugs, explosives and humans, The 30th Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Ft. Lauderdale, Florida, October 19 - 23, 2003.
 238. R. Harper, J.R. Almirall, K.G. Furton, Investigation of Canis Familiaris as Biological Detectors for Explosives Using Headspace SPME-GC-MS Analysis, The 30th Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Ft. Lauderdale, Florida, October 19 - 23, 2003.
 239. J. Perr, K.G. Furton, J.R. Almirall, Improving the Detection and Sampling of Ignitable Liquid Residues and Explosive Compounds, The 30th Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Ft. Lauderdale, Florida, October 19 - 23, 2003.
 240. A.M. Curran and K.G. Furton, Development of Optimal Collection and Storage Methods for Human Scent Evidence and Characterization of Uniqueness of Human Scent, Netherlands Police National Agency, Amsterdam, Netherlands, November 5-8, 2004.
 241. K.G. Furton and J.R. Almirall, Trends in Forensic Science Education: Expansion and Increased Accountability, invited paper in the Session: Forensic Science Education, 2003 Eastern Analytical Symposium, Somerset, New Jersey, November 17 - 20, 2003.
 242. K.G. Furton and, Gas Chromatographic Methods Used to Determine the Odor Signature Chemicals Used by Detector Dogs to Locate Forensic Specimens, invited paper in the Session: Recent Advances in Gas Chromatography in Forensic Science, 2003 Eastern Analytical Symposium, Somerset, New Jersey, November 17 - 20, 2003.
 243. K. G. Furton, The Study of Scents Detected by Dogs Using SPME Combined with Gas and Liquid Chromatography, invited speaker for the Society for Analytical Chemists of Pittsburgh (Co-sponsor of PittCon), January 5, 2004, Pittsburgh, Pennsylvania.
 244. K.G. Furton, Chemistry of Scent: Olfaction and Odor Signature Analysis, California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 13-15, 2004. Invited instructor for two 2-hour sessions.
 245. K.G. Furton, Current Detection Dog Research, Invited speaker at the 10th Annual Sports Medicine Symposium, Auburn University, Auburn, Alabama, January 23-25, 2004.
 246. K.G. Furton, Identification of the Dominant Odor Signature Chemical(s) used by Dogs to Locate Forensic Specimens, Invited speaker at the 7th UNCW Symposium on Chemistry and Biochemistry, Wilmington, North Carolina, January 30-31, 2004.
 247. K.G. Furton, Identification of Odor Signature Chemical(s) Used By Dogs and Possibly Instruments to Locate Forensic Specimens, Invited featured speaker at Forensic Sciences Symposium 2004 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 27-28, 2004.

248. A. Curran and K.G. Furton, Optimization of Collection and Storage Methods for Scent Evidence and the Identification of the Volatile Components Comprising an Individual Human Odor Signature, Forensic Sciences Symposium 2004 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 27-28, 2004.
249. R.J. Harper, F. Khodadadi, S. Rose, J.R. Almirall and K.G. Furton, Continued Scientific Investigation of Explosives Detection by *Canis lupis var. familiaris*, Forensic Sciences Symposium 2004 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 27-28, 2004.
250. J. Perr, K.G. Furton and J.R. Almirall, Construction and Development of a SPME/IMS Interface for the Detection of Explosive Compounds and Taggants, Forensic Sciences Symposium 2004 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 27-28, 2004.
251. S. Tolliver, M. Chow, A.S. Lowy, M.A. Sawal and K.G. Furton, Identification of *Canis familiaris* Signature Odor Chemicals in Human Remains, Forensic Sciences Symposium 2004 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 27-28, 2004.
252. D. Heller, J.R. Almirall, S. Rose and K.G. Furton, Scientific Validation of the Reliability of Detector Dog Teams: Progress Towards the Development of a National Standard for Best Practices, Forensic Sciences Symposium 2004 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 27-28, 2004.
253. K.G. Furton, Dogs Serving Forensic Science: From Folklore to Fact, Invited speaker at Young Forensic Scientists Forum at the 56th Annual American Academy of Forensic Sciences Meeting, Dallas, Texas, February 16-21, 2004.
254. J.M. Perr, K.G. Furton and J.R. Almirall, Construction of a SPME/IMS Interface for Detection of Explosive Compounds and Taggants Evaluated by SPME/GC/MS, 56th Annual American Academy of Forensic Sciences Meeting, Dallas, Texas, February 16-21, 2004. (Best Oral Presentation Award by Jeannette Perr).
255. A.M. Curran and K.G. Furton, Optimization of Collection and Storage Methods for Scent Evidence and the Identification of the Volatile Components Comprising an Individual Human Odor Signature, 56th Annual American Academy of Forensic Sciences Meeting, Dallas, Texas, February 16-21, 2004.
256. A. Benson, S. Rose, Y.-L. Hsu, K.G. Furton and A. Sabucedo, LC/MS Analysis of Flunitrazepam (Rohypnol) Solid Dosage Tablets, 56th Annual American Academy of Forensic Sciences Meeting, Dallas, Texas, February 16-21, 2004.
257. D.P. Heller, J.R. Almirall, S. Rose and K.G. Furton, Scientific Validation of the Reliability of Detector Dog Teams: Progress Towards the Development of a National Standard for Best Practices, 56th Annual American Academy of Forensic Sciences Meeting, Dallas, Texas, February 16-21, 2004.
258. R.J. Harper, F. Khodadadi, S. Rose, J.R. Almirall and K.G. Furton, Continued Scientific Investigation of Explosives Detection by *Canis Lupus var. Familiaris*, 56th Annual American Academy of Forensic Sciences Meeting, Dallas, Texas, February 16-21, 2004.

259. S.S. Chin and K.G. Furton, Comparison of Field Portable Instruments and Accelerant Detection Canines for the Detection and Collection of Ignitable Liquid Residue at Fire Scenes, 56th Annual American Academy of Forensic Sciences Meeting, Dallas, Texas, February 16-21, 2004.
260. A.J. Sabucedo and K.G. Furton, Extractionless GC/MS of γ -Hydroxybutyrate and γ -Butyrolactone with Trifluoroacetic Anhydride and Heptafluoro-1-butanol from Aqueous Samples, 56th Annual American Academy of Forensic Sciences Meeting, Dallas, Texas, February 16-21, 2004.
261. S.S. Tolliver, M. Chow, A.S. Lowy, M.A. Sawal and K.G. Furton, Identification of *Canis familiaris* Signature Odor Chemicals in Human Remains, 56th Annual American Academy of Forensic Sciences Meeting, Dallas, Texas, February 16-21, 2004.
262. S. Rose and K.G. Furton, Identification of Odor Signature Chemicals used by Dogs and Possibly Instruments to Locate Forensic Specimens, Featured Speaker at the 2nd Annual Ft. Lauderdale Forensic Science Symposium, February 27-28, 2004, Ft. Lauderdale, Florida.
263. A.M. Curran and K.G. Furton, Optimization of Collection and Storage Methods for Scent Evidence and the Identification of the Volatile Components Comprising an Individual Human Odor Signature, 2nd Annual Ft. Lauderdale Forensic Science Symposium, February 27-28, 2004, Ft. Lauderdale, Florida.
264. R.J. Harper, F. Khodadadi, S. Rose, J.R. Almirall and K.G. Furton, Continued Scientific Investigation of Explosives Detection by *Canis Lupus* var. *Famimiaris*, 2nd Annual Ft. Lauderdale Forensic Science Symposium, February 27-28, 2004, Ft. Lauderdale, Florida.
265. J.M. Perr, K.G. Furton and J.R. Almirall, Construction of a SPME/IMS Interface for the Detection of Explosive Compounds and Taggants, 2nd Annual Ft. Lauderdale Forensic Science Symposium, February 27-28, 2004, Ft. Lauderdale, Florida. (Best poster presentation by Jeannette Perr).
266. S.S. Tolliver, M. Chow, A.S. Lowy, M.A. Sawal and K.G. Furton, Identification of *Canis Familiaris* Signature Odor Chemicals in Human Remains, 2nd Annual Ft. Lauderdale Forensic Science Symposium, February 27-28, 2004, Ft. Lauderdale, Florida.
267. D.P. Heller, J.R. Almirall, S. Rose and K.G. Furton, Scientific Validation of the Reliability of Detector Dog Teams: Progress Towards the Development of a National Standard for Best Practices, 2nd Annual Ft. Lauderdale Forensic Science Symposium, February 27-28, 2004, Ft. Lauderdale, Florida.
268. A.J. Sabucedo and K.G. Furton, Extractionless GC/MS of γ -Hydroxybutyrate and γ -Butyrolactone with Trifluoroacetic Anhydride and Heptafluoro-1-butanol from Aqueous Samples, 2nd Annual Ft. Lauderdale Forensic Science Symposium, February 27-28, 2004, Ft. Lauderdale, Florida.
269. J.R. Amirall and K.G. Furton, Trends in forensic science education in the U.S.A: expansion and increased accountability, accreditation by FEPAC of the AAFS, 17th International Symposium on the Forensic Sciences, ANZFSS, Wellington, NZ , March 28 – April 2nd, 2004.
270. J. Perr, K.G. Furton and J.R. Almirall, Solid Phase MicroExtraction Coupled to Ion Mobility Spectrometry (SPME-IMS) for the Field Detection of Explosives, 17th International Symposium on the Forensic Sciences, ANZFSS, Wellington, NZ, March 28 – April 2nd, 2004.

271. K.G. Furton, Odor Signature of Cocaine Analyzed by GC/MS and Threshold Levels of Detection for Drug Detection Canines, Invited talk at Drug Detection Canine Record Keeping and Court Testimony Seminar (Multijurisdictional Counter Drug Task Force Training Center), Orlando, Florida, April 1-2, 2004.
272. K.G. Furton and A. Curran, Laboratory and field experiments used to identify the uniqueness of human scent identified by instrumental methods and canine detection, Invited speaker at special symposium on human scent detection, FBI Academy, Quantico, VA, April 29, 2004.
273. A.M. Curran and K.G. Furton, The Identification of the Volatile Components Comprising an Individual Human Odor Signature (Invited Speaker), Human Scent Symposium, Federal Bureau of Investigations (FBI), Quantico VA April 29, 2004.
274. K.G. Furton, K-9 Olfaction and active odor signature chemicals in narcotics and other forensic specimens, invited Featured Speaker at the Pacific Northwest Police Detection Dog Association Narcotics Interdiction Seminar, Seattle, WA, May 3 – 8, 2004.
275. K.G. Furton, Organized and presided over 2 day Forensic Chemistry Symposium I and II., ACS Florida Annual Meeting and Exposition (FAME) 2004, Orlando, Florida, May 6 – 8, 2004.
276. K.G. Furton, CSI K9: Accurate Location Of Forensic Evidence And WMD With Canines And Instrumentation, ACS Florida Annual Meeting and Exposition (FAME) 2004, Orlando, Florida, May 6 – 8, 2004.
277. J. Perr, K.G. Furton and J.R. Almirall, Application Of SPME-IMS To The Detection of Explosives, ACS Florida Annual Meeting and Exposition (FAME) 2004, Orlando, Florida, May 6 – 8, 2004.
278. L. Conner and K.G. Furton, Critical Evaluation of Field Sampling And Analysis Methods For Arson Investigation Including Electronic Noses And Adsorption Sampling/GCMS, ACS Florida Annual Meeting and Exposition (FAME) 2004, Orlando, Florida, May 6 – 8, 2004.
279. R.J. Harper, S. Rose, J.R. Almirall and K.G. Furton, Odor Analysis of Smokeless Powders For Canine Detection, ACS Florida Annual Meeting and Exposition (FAME) 2004, Orlando, Florida, May 6 – 8, 2004.
280. Y.-L. Hsu, B.J. Young and K.G. Furton, Drugs On Money-The Role Of Ink, ACS Florida Annual Meeting and Exposition (FAME) 2004, Orlando, Florida, May 6 – 8, 2004.
281. R. Griffith and K.G. Furton, Location Of Molds And Mycotoxins Using Canines And SPME/GC/MS Detection Of Microbial Volatile Organic Compounds, ACS Florida Annual Meeting and Exposition (FAME) 2004, Orlando, Florida, May 6 – 8, 2004.
282. S. Tolliver, M. Chow, A.S. Lowy, M.A. Sawal and K.G. Furton, Identification Of Canis Familiaris Signature Odor Chemicals In Human Remains, ACS Florida Annual Meeting and Exposition (FAME) 2004, Orlando, Florida, May 6 – 8, 2004.
283. A.M. Curran and K.G. Furton, The Analysis Of Volatile Compounds Found In Human Scent, ACS Florida Annual Meeting and Exposition (FAME) 2004, Orlando, Florida, May 6 – 8, 2004.
284. A. Sabucedo, and K.G. Furton, Applications of GC/MS And LC/MS In Forensic Drug Analysis, ACS Florida Annual Meeting and Exposition (FAME) 2004, Orlando, Florida, May 6 – 8, 2004.

285. J.M. Perr, K.G. Furton and J.R. Almirall, Improved Detection of Organic Explosives Using SPME-IMS and SPME-GC-MS-MS, Proceedings of the 8th International Symposium on the Analysis and Detection of Explosive (ISADE), June 6-10, 2004. Ottawa, Canada.
286. R.J. Harper, J.R. Almirall and K.G. Furton, Improving the Scientific Reliability of Biological Detection of Explosives by Canis Familiaris Through Active Odor Signatures and their Implications, Proceedings of the 8th International Symposium on the Analysis and Detection of Explosive (ISADE), June 6-10, 2004. Ottawa, Canada.
287. D. Heller, R.J. Harper, J.M. Perr, J.R. Almirall and K.G. Furton, , Improving the Scientific Reliability of Biological Detection of Explosives Through Active Odor Signatures and the Development of Best Practices for Dogs and Orthogonal Detectors, Homeland Security Advanced Research Projects Agency (HSARPA) Technology Workshop on Countering Threats from Truck, Suicide and Public Transportation Bombs, Washington, DC, June 15-16, 2004.
288. K.G. Furton, J.M. Perr and J.R. Almirall, Optimizing the Rapid Detection of Explosive Odors Employing Biological and Instrumental Methods Including SPME-IMS AND SPME-GC-MS-MS, Homeland Security Advanced Research Projects Agency (HSARPA) Technology Workshop on Countering Threats from Truck, Suicide and Public Transportation Bombs, Washington, DC, June 15-16, 2004.
289. K.G. Furton and D. Heller, SWGDOG – the need for global cooperation and understanding, International Explosives Detection Canine Conference, New Orleans, Louisiana, August 30 – September 1, 2004.
290. A.M. Curran and K.G. Furton, Contamination Issues as it Pertains to Human Scent and Improving Non-Hazardous Training Aids, International Explosives Detection Canine Conference, New Orleans, Louisiana, August 30 – September 1, 2004.
291. R.J. Harper, J.R. Almirall and K.G. Furton, Explosive Detection Canines – Part I: The Need for Scientific Study, International Explosives Detection Canine Conference, New Orleans, Louisiana, August 30 – September 1, 2004.
292. R.J. Harper, J.R. Almirall and K.G. Furton, Explosive Detection Canines – Part II: Identifying Active Odours, International Explosives Detection Canine Conference, New Orleans, Louisiana, August 30 – September 1, 2004.
293. K.G. Furton and J.R. Almirall, The Forensic Science Education Programs Accreditation Commission (FEPAC) of the AAFS: An Update and Perspectives from a University Administrator, Invited talk at the NIJ FRN/CLIP National Conference: Innovative Partnerships, Tampa, Florida, September 20-22, 2004.
294. B. Young, A. Latham, Y.-L. Hsu, S. Rose and K.G. Furton, Detection of Signature Chemicals Used to Locate Items Containing Drugs and Drug Odors Including Currency, The Joint Meeting of the Southern Association of Forensic Scientists (SAFS), Midwestern Association of Forensic Scientists (MAFS), Mid-Atlantic Association of Forensic Scientists (MAAFS) and Canadian Society of Forensic Science (CSFS), Orlando, Florida, September 19-24, 2004.
295. R. Griffith, K. Jayachandran, W. Whitstine and .G. Furton, Canine and SPME/GC/MS Detection of Microbial Volatile Organic Compounds Emitted from Two Problematic Indoor Molds:

- Penecillium Chrysogenum and Aspergillus Versicolor, The Joint Meeting of the SAFS, MAFS, MAAFS and CSFS, Orlando, Florida, September 19-24, 2004.
296. L. Conner and K.G. Furton, Field Sampling and Analysis Methods for Arson Investigation, The Joint Meeting of the SAFS, MAFS, MAAFS and CSFS, Orlando, Florida, September 19-24, 2004.
297. P. Prada, A.M. Curran and K.G. Furton, Supercritical Fluid Extraction of Organic Compounds from Adsorbents Used to Collect Human Scent Evidence, The Joint Meeting of the SAFS, MAFS, MAAFS and CSFS, Orlando, Florida, September 19-24, 2004.
298. W. Jeffris, S.S. Tolliver and K.G. Furton, Identification of Volatile Organic Compounds Produced by Decomposing Human Blood and Those Detected by Cadaver Dogs, The Joint Meeting of the SAFS, MAFS, MAAFS and CSFS, Orlando, Florida, September 19-24, 2004.
299. R.J. Harper, J.R. Almirall and K.G. Furton; Explosive Detection Goes to the Dogs: Scientific Investigations into Canine Olfaction, The Joint Meeting of the SAFS, MAFS, MAAFS and CSFS, Orlando, Florida, September 19-24, 2004.
300. A.M. Curran and K.G. Furton, SPME-GC/MS Analysis of the Volatile Components Comprising an Individual Human Odor Signature, The Joint Meeting of the SAFS, MAFS, MAAFS and CSFS, Orlando, Florida, September 19-24, 2004.
301. K.G. Furton, S. Chin, L. Conner, R.J Harper, J. M. Perr, D. Heller and J.R. Almirall, Comparison of instrumental and biological field detection of accelerants and explosives, The 31st Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Portland, Oregon, October 3 - 7, 2004.
302. A.M. Curran and K.. Furton, SPME-GC/MS Investigations Into the Uniqueness of Human Scent, The 31st Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Portland, Oregon, October 3 - 7, 2004.
303. R.J. Harper, S. Rose, J.R Almirall and K.G. Furton, Chemical Odour Signatures of Powder Explosives and Their Implications upon Biological Detection of Explosives by Canis Familiaris, The 31st Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Portland, Oregon, October 3 - 7, 2004
304. R.J Harper, A.M Curran, J.R. Almirall and K.G. Furton, Improving the Science behind Canine Olfaction of Forensic Specimens, Olfactory-Based Systems for Security Applications 2004 (OBSSA 04), Dstl Fort Halstead, U.K., 29th November - 01st December 2004.
305. R.J. Harper, A.M. Curran, J.R. Almirall and K.G. Furton Developing the Science Behind Canine Olfaction of Forensic Specimens, Olfactory Based Systems for Security Applications (OBSSA-04) hosted by DSTL, London, England, December 2004
306. K.G. Furton, Advances in Chemistry of Scent: Currency, Narcotics, Explosives and Humans, California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 13-15, 2004. Invited instructor for two 2-hour sessions.
307. K.G. Furton, Advances in Instrumental and Biological Explosive Detection Systems, Invited featured speaker at Forensic Sciences Symposium 2005 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 4-5, 2005.

308. A. Curran, P.A. Prada, A.A. Schoon, J.R. Almirall and K.G. Furton, Human Scent as a Biometric Measurement, Forensic Sciences Symposium 2005 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 4-5, 2005.
309. P.A. Prada, A.M. Curran and K.G. Furton, Supercritical Fluid Extraction of Organic Compounds Present in Adsorbents Used in Human Scent Evidence, Forensic Sciences Symposium 2005 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 4-5, 2005.
310. J.M. Perr, K.G. Furton and J.R. Almirall, Improving the Detection of Explosive Compounds Before and After Detonation, Forensic Sciences Symposium 2005 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 4-5, 2005.
311. W. Jeffris, S.S. Tolliver and K.G. Furton, Volatile Compounds Produced by Decomposing Human Blood and Those Detected by Cadaver Dogs, Forensic Sciences Symposium 2005 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 4-5, 2005.
312. R. Griffith, K. Jayachandran, W. Whitstine and K.G. Furton, Canine and SPME/GC/MS Detection of Microbial Volatile Organic Compounds from Toxic Indoor Molds, Forensic Sciences Symposium 2005 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 4-5, 2005.
313. R. Harper, J.R. Almirall and K.G. Furton, Explosive Detection Canines – Part I: The Need for Scientific Study, Forensic Sciences Symposium 2005 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 4-5, 2005.
314. R. Harper, J.R. Almirall and K.G. Furton, Explosive Detection Canines – Part II: Identifying Active Odors, Forensic Sciences Symposium 2005 – Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, February 4-5, 2005.
315. K.G. Furton and D. Kontny, K9 versus Machine: Optimizing the Combination of Biological and Instrumental Detectors, Invited speaker for the Young Forensic Science Forum session “Forensic Science Outside the Box”, 57th Annual American Academy of Forensic Sciences Meeting, New Orleans, Louisiana, February 21 - 26, 2005.
316. P.A. Prada, A.M. Curran and K.G. Furton, Comparison of Pressurized Fluid Extraction Methods of Adsorbents for Use in Human scent Evidence Collection (B35), 57th Annual American Academy of Forensic Sciences Meeting, New Orleans, Louisiana, February 21 - 26, 2005.
317. R.J. Harper, A.M. Curran, D. Heller, and K.G. Furton Understanding the Odors of Forensic Specimens, (Invited Speaker) Nomadics, Still Water, Oklahoma, February 2005
318. J.M. Perr, K.G. Furton, M. Prieto and J.R. Almirall, Application of a Standardized Gas Chromatography Tandem Mass Spectrometry Method for the Improved Detection of Ignitable Liquid Residues (B118), 57th Annual American Academy of Forensic Sciences Meeting, New Orleans, Louisiana, February 21 - 26, 2005.
319. R.J. Harper, J.R. Almirall, D. Heller and K.G. Furton, Realizing the Science Behind Canine Detection of Explosives (B122), 57th Annual American Academy of Forensic Sciences Meeting, New Orleans, Louisiana, February 21 - 26, 2005.

320. A.M. Curran, J.R. Almirall, A.A. Schoon and K.G. Furton, The Instrumental Analysis of the Volatile Organic Compounds Present in Human Scent by SPME-GC/MS and the Evaluation of Scent Preservation Methods (B154), 57th Annual American Academy of Forensic Sciences Meeting, New Orleans, Louisiana, February 21 - 26, 2005.
321. W. Jeffris, S. Tolliver and K.G. Furton, Volatile Compounds Produced by Decomposing Human Blood and Those Detected by Cadaver Dogs (B43), 57th Annual American Academy of Forensic Sciences Meeting, New Orleans, Louisiana, February 21 - 26, 2005.
322. L.M. Conner and K.G. Furton, Field Sampling and Analysis Methods for Arson Investigation (D21), 57th Annual American Academy of Forensic Sciences Meeting, New Orleans, Louisiana, February 21 - 26, 2005.
323. S. Tolliver, M. Chow, A. Lowy, M.A. Sawal and K.G. Furton, Detection of *Canis Familiaris* Signature Odor Chemicals in Human Remains Using Derivatization/SPME/GC/MS (D45), 57th Annual American Academy of Forensic Sciences Meeting, New Orleans, Louisiana, February 21 - 26, 2005.
324. R.T. Griffith, K. Jayachandran, W. Whitstine and K.G. Furton, Canine and SPME/GC/MS Detection of Microbial Volatile Organic Compounds Emitted from *Stachybotrys chartarum*, *Penicillium chrysogenum* and *Aspergillus versicolor* (D48), 57th Annual American Academy of Forensic Sciences Meeting, New Orleans, Louisiana, February 21 - 26, 2005.
325. A.M. Curran, A.A. Schoon and K.G. Furton, Determination of the Volatile Organic Compounds in a Human Scent Profile through SPME-GC/MS, Young Forensic Scientists Forum, Bring Your Own Poster, AAFS, New Orleans LA, February 2005
326. K.G. Furton, Alisha Latham, Ya-Li Hsu, Stefan Rose, Bradley Young, Signature Chemicals Used by Instrumental and Biological Detectors to Locate Items Containing Drugs and Drug Odors Including Currency, PittCon 2005, Orlando, Florida, February 27 – March 4, 2005.
327. R.T. Griffith, K. Jayachandran and K.G. Furton, Identification of Signature Microbial Volatile Organic Compounds from Toxic Molds Using SPME/GC/MS and Canine Detection (1330-8 P), PittCon 2005, Orlando, Florida, February 27 – March 4, 2005.
328. R.J. Harper, J.R. Almirall, K.G. Furton, Determining Explosive Odours Using Solid Phase Microextraction: Gas Chromatography (SPME-GC) and Explosive Detection Canines (1520-5), PittCon 2005, Orlando, Florida, February 27 – March 4, 2005.
329. L. Conner and K.G. Furton, Field Sampling and Analysis Methods for Arson Investigation (1880-1 P), PittCon 2005, Orlando, Florida, February 27 – March 4, 2005.
330. A.M. Curran, K.G. Furton and A.A. Schoon, Determination of the Volatile Organic Compounds Present in a Human Scent Profile through SPME-GC/MS (1880-2 P), PittCon 2005, Orlando, Florida, February 27 – March 4, 2005.
331. S. Tolliver and K.G. Furton, Detection of *Canis Familiaris* Signature Odor Chemicals in Human Remains Using Derivatization/SPME/GC/MS (1880-12 P), PittCon 2005, Orlando, Florida, February 27 – March 4, 2005.

332. P.A. Prada, A.M. Curran and K.G. Furton, Supercritical Fluid Extraction of Organic Compounds Present in Adsorbents Used in Human Scent Evidence Collection (1880-22 P), PittCon 2005, Orlando, Florida, February 27 – March 4, 2005.
333. A.M. Curran, P. Prada, A.A. schoon, J.R. Almirall and K.G. Furton, Human Scent as a biometric measurement (5779-46), in Technologies for Human Identification, SPIE Defense and Security Symposium, Orlando, Florida, March 28 – April 1, 2005.
334. R.J. Harper, J.R. Almirall and K.G. Furton, Discrimination of smokeless powders by headspace SPME-GC-MS and SPME-GC-ECD, and the implications upon training explosives detection canines (5778-91), in Sensors and C3I Technologies for Homeland Security and Homeland Defense, SPIE Defense and Security Symposium, Orlando, Florida, March 28 – April 1, 2005.
335. J. Perr, K.G. Furton and J.R. Almirall, Application of a SPME-IMS detection system for illicit explosives (5778-94), in Sensors and C3I Technologies for Homeland Security and Homeland Defense, SPIE Defense and Security Symposium, Orlando, Florida, March 28 – April 1, 2005.
336. K.G. Furton, The significance of drug dog alerts to paper currency, Invited talk for the Miami Dade Police Training Bureau Narcotics Canine Course, Miami, Florida, April 11 - 15, 2005.
337. A.M. Curran, J.R. Almirall, A.A. Schoon and K.G. Furton, Human Scent as a Potential Biometric Measurement Utilizing Solid Phase Microextraction – Gas Chromatography/Mass Spectrometry (SPME-GC/MS), 11th International Symposium on Olfaction and electronic Nose, Barcelona, Spain, April 13 – 15, 2005.
338. R.T. Griffith, K. Jayachandran, W. Whitstine and K.G. Furton, Differentiation of Hazardous Indoor Molds via Canine Detection and SPME-GC/MS, 11th International Symposium on Olfaction and electronic Nose, Barcelona, Spain, April 13 – 15, 2005.
339. L. Conner and K.G. Furton, Evaluation of Electronic Noses in Conjunction with Field Sampling Apparatus in Fire Investigations, 11th International Symposium on Olfaction and electronic Nose, Barcelona, Spain, April 13 – 15, 2005.
340. K.G. Furton and L. Myers, Co-organized and co-hosted the 4th National Detector Dog Conference, Auburn, Alabama, April 28 – May 1, 2005.
341. K.G. Furton, Chemistry of Training Aids, 4th National Detector Dog Conference, Auburn, Alabama, April 28 – May 1, 2005.
342. R.J. Harper, J.R. Almirall and K.G. Furton, Development of Explosive Odor Mimics for Scientifically Sound Canine Training, 4th National Detector Dog Conference, Auburn, Alabama, April 28 – May 1, 2005.
343. A.M. Curran, A.A. Schoon and K.G. Furton, Analysis of the Components of Human Scent by SPME-GC/MS, 4th National Detector Dog Conference, Auburn, Alabama, April 28 – May 1, 2005.
344. K.G. Furton, Organized and presided over Forensic Chemistry Symposium, ACS Florida Annual Meeting and Exposition (FAME) 2005, Orlando, Florida, May 5 – 7, 2005.

345. K.G. Furton and D. Heller, The Reliable Location of Forensic Specimens Through Research and Best Practice Guidelines for Dog and Orthogonal Instrumental Detectors (paper #40), ACS Florida Annual Meeting and Exposition (FAME) 2005, Orlando, Florida, May 5 – 7, 2005.
346. Jeannette Perr, K.G. Furton, and J.R. Almirall, Improved Tandem Mass Spectrometry Method for Ignitable Liquid Residue Analysis Using Multiple Reaction Monitoring (paper #42), ACS Florida Annual Meeting and Exposition (FAME) 2005, Orlando, Florida, May 5 – 7, 2005.
347. D.K. Mills and K.G. Furton, Graduate Student and Forensic Research at Florida International University's Forensic DNA Profiling Facility: A Summary (paper #44), ACS Florida Annual Meeting and Exposition (FAME) 2005, Orlando, Florida, May 5 – 7, 2005.
348. A.M. Curran, A.A. Schoon and K.G. Furton, The Analysis of Human Scent by SPME-GC/MS (paper #74), ACS Florida Annual Meeting and Exposition (FAME) 2005, Orlando, Florida, May 5 – 7, 2005.
349. K.G. Furton, Basics of Canine Olfaction and Odor Signature Analysis, First Annual International Mold Detector Dog Association (IMDDA) Conference, Tampa, Florida, May 20 – 21, 2005.
350. R. Griffith and K.G. Furton, Developments in the Pioneering Research Being Conducted with Mold Detection Dogs, First Annual International Mold Detector Dog Association (IMDDA) Conference, Tampa, Florida, May 20 – 21, 2005.
351. K.G. Furton, Research into Chemical Odor Signatures for Different Detection Canines including Bomb, Drug, Persons and Cadavers, First Annual International Mold Detector Dog Association (IMDDA) Conference, Tampa, Florida, May 20 – 21, 2005.
352. K.G. Furton, Forensic searches: dog vs. machine, The Leads 6th International Seminar on Detection Dogs, Tulliallan Castle, Fife, Scotland, June 3 – 5, 2005.
353. A. Curran, R. Harper and K.G. Furton, Contamination issues for the improvement of non-hazardous training aids / Real or pseudo, what's the difference?, The Leads 6th International Seminar on Detection Dogs, Tulliallan Castle, Fife, Scotland, June 3 – 5, 2005.
354. R.T. Griffith, K. Jayachandran, K.G. Shetty, W. Whitstine and K.G. Furton, Hazardous Indoor Molds Detection Application in Forensic Sciences, American Society of Microbiology 105th General Meeting: Atlanta, GA, June 5-9, 2005
355. K.G. Furton, K. Overall, J. Greb and D. Kontny, Organized the meeting and chaired sessions at the 1st members meeting of the Scientific Working Group on Dog and Orthogonal Detection Guidelines, San Antonio, TX, September 18-21, 2005.
356. A.M. Curran and K.G. Furton, Human Odor Component Determination Through SPME-GC/MS (Invited Speaker) Federal Bureau of Investigation, Quantico Virginia, October, 2005.
357. A.M. Curran and K.G. Furton, Human Odor Component Determination Through SPME-GC/MS (Invited Speaker) Old Dominion Bloodhound Seminar, Appomattox, Virginia, October, 2005.
358. A.M. Curran and K.G. Furton, SPME-GC/MS for the Analysis of Human Scent as a Potential Biometric Measurement, National Academies of Science Sackler Forensic Science Colloquium, Washington D.C. November, 2005

359. K.G. Furton, Advances in the Chemistry of Scent, California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 9-11, 2006. Invited instructor for two 2-hour sessions.
360. K. G. Furton, A. Curran and D. Hudson, Advances in Human Scent Evidence Research, Human Scent Research Workshop, Nunspeet, Netherlands, January 17th, 2006.
361. R.J. Harper, A.M. Curran and K.G. Furton, The Nose Knows: Canine and Instrumental Detection of Suspects, Explosives and Cadavers, Moderator for Workshop #8, 58th Annual American Academy of Forensic Sciences Meeting, Seattle, Washington, February 20 - 25, 2006.
362. A.M. Curran and K.G. Furton, Scientific Working Group on Dog and Orthogonal Detection Guidelines (SWGDOG), National Institute of Justice Office of Science and Technology Investigative and Forensic Sciences Division 2006 General Forensics R&D Grantees Meeting, Seattle, WA, February 21, 2006.
363. K.G. Furton, Chemistry of Scent and SWGDOG/Research in the K-9 Field, 2 Invited lectures at the Ke Kula Maka'I Canine Training Facility Seminar, Hawaii, February 20-24, 2006.
364. R. J. Harper and K.G. Furton, Development of Scientifically Sound Protocols for the Training of Explosive Detection Canines (B11), 58th Annual American Academy of Forensic Sciences Meeting, Seattle, Washington, February 20 - 25, 2006.
365. D.T. Hudson, A.M. Curran, A.A. Schoon and K.G. Furton, The Effects of Storage Conditions on Human Scent by SPME-GC/MS (B12), 58th Annual American Academy of Forensic Sciences Meeting, Seattle, Washington, February 20 - 25, 2006.
366. M.S. Macias, R.J. Harper and K.G. Furton, A Comparison of Real vs. Pseudo Contraband for Reliable Detector Dog Training (B13), 58th Annual American Academy of Forensic Sciences Meeting, Seattle, Washington, February 20 - 25, 2006.
367. A.M. Curran, R.A. Stockham and K.G. Furton, The Acceptance of Human Scent as Evidence in the U.S. Court System (B69) (FSF Emerging Forensic Scientist Award Paper Presentation); 58th Annual American Academy of Forensic Sciences Meeting, Seattle, Washington, February 20 - 25, 2006.
368. P.A. Prada, A.M. Curran, A.A. Schoon and K.G. Furton, Compounds Present in Human Scent: A Population Study (B109), 58th Annual American Academy of Forensic Sciences Meeting, Seattle, Washington, February 20 - 25, 2006.
369. J. Aarons, Y.-L. Hsu and K.G. Furton, Comparison of the Volatile Organic Compounds Above Paper Currency and Illicit Drugs using SPME/GC-MS, 58th Annual American Academy of Forensic Sciences Meeting, Seattle, Washington, February 20 - 25, 2006.
370. J.N. Aarons, Y.-L. Hsu, B.J. Young and K.G. Furton, Chemical and Microscopic Characterization of Illicit Drug Speciation in Paper Currency, PittCon 2006, Orlando, Florida, March 12 – 17, 2006.
371. M. Macias, R. Harper and K.G. Furton, The Use of SPME-GC/MS for the Analysis of VOC's of Contraband and Simulated Contraband, PittCon 2006, Orlando, Florida, March 12 – 17, 2006.
372. L. Conner and K.G. Furton, Evaluation of Field Portable Detection and Collection Devices for use in Arson Investigation, PittCon 2006, Orlando, Florida, March 12 – 17, 2006.

373. D.T. Hudson, A.M. Curran, A.A. Schoon and K.G. Furton, Optimization of the Storage of Collected Human Scent Evaluated by SPME-GC/MS, PittCon 2006, Orlando, Florida, March 12 – 17, 2006.
374. K.G. Furton, K. Overall, J. Greb and D. Kontny, Organized the meeting and chaired sessions at the 2nd members meeting of the Scientific Working Group on Dog and Orthogonal Detection Guidelines, Burbank, CA, April 2 -4, 2006.
375. K.G. Furton, The optimized combination of canines and machines for detecting forensic traces, Invited featured speaker at 4th Annual Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, April 28-29, 2006.
376. J. Aarons, Y.-L. Hsu and K.G. Furton, Comparison of the volatile organic compounds above paper currency and illicit drugs using SPME/GC-MS, 4th Annual Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, April 28-29, 2006.
377. P.A. Prada, A.M. Curran, A.A. Schoon and K.G. Furton, A population study: Compounds present in human scent, 4th Annual Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, April 28-29, 2006.
378. M. Macias, R.J. Harper and K.G. Furton, A comparison of real vs. simulated contraband VOC's for reliable detector dog training utilizing SPME-GC/MS, 4th Annual Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, April 28-29, 2006.
379. K.G. Furton, Chemical Analysis of Dog Alerts, Invited talk at the Louisiana District Attorneys Association Highway Interdiction and Drug Asset Forfeiture post Certification Seminar, Lafayette, Louisiana, May 8-10, 2006.
380. K.G. Furton, Organized and presided over Forensic Chemistry Symposium, ACS Florida Annual Meeting and Exposition (FAME) 2006, Orlando, Florida, May 11 – 13, 2006.
381. K.G. Furton and D. Heller, Improved location of forensic traces through canine research and standardization efforts including SWGDOG, ACS Florida Annual Meeting and Exposition (FAME) 2006, Orlando, Florida, May 11 – 13, 2006 (paper 96).
382. A.M. Curran, R.A. Stockham and K.G. Furton, ACS Florida Annual Meeting and Exposition (FAME) 2006, Orlando, Florida, May 11 – 13, 2006 (paper 97).
383. D.T. Hudson, A.M. Curran, A.A. Schoon and K.G. Furton, Storage of human scent, ACS Florida Annual Meeting and Exposition (FAME) 2006, Orlando, Florida, May 11 – 13, 2006 (paper 98).
384. M. Macias, R.J. Harper and K.G. Furton, A Comparison of Real vs. Simulated Contraband VOC's for Reliable Detector Dog Training Utilizing SPME-GC/MS, ACS Florida Annual Meeting and Exposition (FAME) 2006, Orlando, Florida, May 11 – 13, 2006 (Paper 161).
385. P. Prada, A.M. Curran and K.G. Furton, Optimization of Sorbent Materials Used to Collect Human Scent for Instrumental Analysis, ACS Florida Annual Meeting and Exposition (FAME) 2006, Orlando, Florida, May 11 – 13, 2006 (paper 162).

386. J.N. Aarons, Y.L.-Hsu and K.G. Furton, Comparison of Volatile Organic Compounds Above Paper Currency and Illicit Drugs using SPME/GC-MS, ACS Florida Annual Meeting and Exposition (FAME) 2006, Orlando, Florida, May 11 – 13, 2006 (paper 163).
387. K.G. Furton, Advances in the Chemistry of Scent, invited Featured Speaker at the Pacific Northwest Police Detection Dog Association Annual Conference, Bellingham, WA, May 22 – 26, 2006.
388. K.G. Furton, Advances in the optimal detection of odors by detector dogs and machines, keynote speaker at the 1st Tennessee Detector Dog Conference, Knoxville, Tennessee, June 12 - 14, 2006.
389. K.G. Furton, Optimizing the Combination of Biological and Instrumental Detectors, Invited speaker at the workshop “Use of Dogs for Helping Forensic Investigation” organized by Silke Löffler, 4th European Academy of Forensic Science Conference, Helsinki, Finland, June 13-16, 2006.
390. P. Prada, A. Curran and K.G. Furton, Optimization of Sorbent Materials in Human Scent Identification (W72), 4th European Academy of Forensic Science Conference, Helsinki, Finland, June 13-16, 2006.
391. A. Curran, A. Schoon and K.G. Furton, Optimization of Sorbent Materials in Human Scent Identification (W73), 4th European Academy of Forensic Science Conference, Helsinki, Finland, June 13-16, 2006.
392. D. Hudson, A. Curran, A. Schoon and K.G. Furton, Storage Conditions and Human Scent Evidence (W104), 4th European Academy of Forensic Science Conference, Helsinki, Finland, June 13-16, 2006.
393. K.G. Furton, L. Conner, R. Griffith, J. Aarons, M. Macias, S.S. Tolliver and, A.M. Curran, Improved detection of accelerants, biotoxins, currency, drugs, explosives and humans by canines and instruments through optimal combination of odor signature chemicals (F72), 4th European Academy of Forensic Science Conference, Helsinki, Finland, June 13-16, 2006.
394. K.G. Furton, Improved detection of forensic specimens by canines and instruments through identification of odor signature chemicals (F72), 4th European Academy of Forensic Science Conference, Helsinki, Finland, June 13-16, 2006.
395. K.G. Furton, The use of chemical odor profiles to optimize biological and instrumental detection systems, invited lunchtime lecture, Nomadics, Inc., Stillwater, Oklahoma, July 20, 2006.
396. K.G. Furton, K. Overall, J. Greb and D. Kontny, Organized the meeting and chaired sessions at the 3rd members meeting of the Scientific Working Group on Dog and Orthogonal Detection Guidelines, Philadelphia, PA, September 11 – 13, 2006.
397. K.G. Furton, Canines in Court: From Civil Forfeiture to Criminal Human Scent Identification Cases, Invited speaker for the National Conference on Science, Technology and the Law, St. Petersburg, Florida, November 2-5, 2006.
398. K.G. Furton, Chemistry of Scent: Science behind K9 detection of contaminated currency, narcotics, explosives and human scent, California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 9-11, 2007. Invited instructor for two 2-hour sessions.

399. D. Hudson, A.M. Curran and K.G. Furton, The Effects of Storage on Volatile Organic Compounds Present in Hand Odor Samples through the Use of SPME-GC/MS, 5th Annual Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, January 19-20, 2007.
400. M.S. Macias and K.G. Furton, Development of Reliable Contraband Mimics for Biological/Instrumental Training Aids/Calibration Standards Using SPME/GC-MS, 5th Annual Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, January 19-20, 2007.
401. P. Prada, A. Curran and K.G. Furton, Optimization of Sorbent Materials to Collect Human Scent for Instrumental Analysis, 5th Annual Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, January 19-20, 2007.
402. B. Memari, A. Sabucedo and K.G. Furton, Improved Estimation of Time Since Death with Multiple Protein Markers and Improved Analytical Methods, 5th Annual Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, January 19-20, 2007.
403. K.G. Furton, Advances in the Biological and Instrumental Detection of Forensic Evidence, Invited featured speaker 5th Annual Fort Lauderdale Forensic Conference (FFC) – South Florida ACS, Nova Southeastern University, Ft. Lauderdale, January 19-20, 2007.
404. P. Guerra, M. Macias, K.G. Furton and J.R. Almirall, Field Detection of Drug and Explosive Odor Signatures Using SPME-IMS, NIJ Grantees meeting, 59th Annual Scientific Meeting of the American Academy of Forensic Sciences, San Antonio, TX, February 19-24, 2007.
405. K.G. Furton, J. Greb and H. Holness, Scientific Working Group on Dog & Orthogonal detector Guidelines (SWGDOG), Invited speaker at NIJ Grantees Forum, 59th Annual Scientific Meeting of the American Academy of Forensic Sciences, San Antonio, TX, February 19-24, 2007.
406. K.G. Furton, Characterization of Volatile Chemical Profiles and the Development of Explosive Odor Calibrants for Instruments and Canines, Co-organizer of workshop #1 at the 59th Annual Scientific Meeting of the American Academy of Forensic Sciences, San Antonio, TX, February 19-24, 2007.
407. D.T. Hudson, A.M. Curran, A.A. Schoon and K.G. Furton, Biological and Chemical Influences on a Canine's Ability to Differentiate Hand Odor Samples, 59th Annual Scientific Meeting of the American Academy of Forensic Sciences, San Antonio, TX, February 19-24, 2007.
408. J.N. Aarons, I. Corbin and K.G. Furton, The Quantification of Drug Residies and Drug odorants Under Variable Conditions Evaluated by SPME-GC/MS and with Detection Canines, 59th Annual Scientific Meeting of the American Academy of Forensic Sciences, San Antonio, TX, February 19-24, 2007.
409. M.S. Macias and K.G. Furton, Explosive Training Aid Variance Affecting Canine Detection, 59th Annual Scientific Meeting of the American Academy of Forensic Sciences, San Antonio, TX, February 19-24, 2007.

410. P.A. Prada, A.M. Curran and K.G. Furton, Laboratory Experiments for the Optimization of Non-Contact Human Scent Sampling, 59th Annual Scientific Meeting of the American Academy of Forensic Sciences, San Antonio, TX, February 19-24, 2007.
411. M. Kusano and K.G. Furton, Comparison of the Volatile Biomarkers from Biological Specimens for Profiling Potential, 59th Annual Scientific Meeting of the American Academy of Forensic Sciences, San Antonio, TX, February 19-24, 2007.
412. K.G. Furton, K. Overall, J. Greb and D. Kontny, Organized the meeting and chaired sessions at the 4th members meeting of the Scientific Working Group on Dog and Orthogonal Detection Guidelines, Burbank, CA, March 10-14, 2007.
413. A.M. Curran, Jessie Greb and K.G. Furton, *SWGDOG*: Best practice guidelines for improved biological and instrumental detection, Invited presentation for the Novel Programs and Standards Panel, 4th NIJ Applied Technology Conference, April 3 – 5, 2007, Garden Grove, California
414. K.G. Furton, Organized and presided over Forensic Chemistry Symposium at the 83rd ACS Florida Annual Meeting and Exposition (FAME 2007) Orlando, Florida, May 11 – 13, 2007.
415. K.G. Furton, J. Aarons, L.DeGreeff, H. Holness, D.T. Hudson, M. Macias and P. Prada, The chemistry and law behind the use of canines and machines to identify drug money and suspects, 83rd ACS Florida Annual Meeting and Exposition (FAME 2007) Orlando, Florida, May 11 – 13, 2007.
416. M. Macias, L. Calvo and K.G. Furton, Alternative training aid systems for canine detection, 83rd ACS Florida Annual Meeting and Exposition (FAME 2007) Orlando, Florida, May 11 – 13, 2007.
417. P.A. Prada, A.M. Curran and K.G. Furton, Laboratory experiments for the optimization of non-contact human scent sampling, 83rd ACS Florida Annual Meeting and Exposition (FAME 2007) Orlando, Florida, May 11 – 13, 2007.
418. D.T. Hudson, A.M. Curran, A.A. Schoon and K.G. Furton, Biological and chemical influences on a canine's ability to differentiate hand odor samples, 83rd ACS Florida Annual Meeting and Exposition (FAME 2007) Orlando, Florida, May 11 – 13, 2007.
419. B. Memari, A.J. Sabucedo and K.G. Furton, Improved estimation of postmortem interval with multiple protein markers and improved analytical methods, 83rd ACS Florida Annual Meeting and Exposition (FAME 2007) Orlando, Florida, May 11 – 13, 2007.
420. J.S. Wirks, P.A. Prada and K.G. Furton, Evaluation of fiber composition of human scent collection materials and their effect on collected human hand odor, 83rd ACS Florida Annual Meeting and Exposition (FAME 2007) Orlando, Florida, May 11 – 13, 2007.
421. K.G. Furton, The science behind the canine detection of contaminated currency, narcotics, explosives and human scent, Advances in the Chemistry of Scent, invited Featured Speaker at the Pacific Northwest Police Detection Dog Association Annual Conference, Bellingham, WA, May 21 – 25, 2007.
422. K.G. Furton, Development of Best Practice Guidelines for Detector Dogs and their Optimal Combination with Instrumental Detection, Invited speaker at the 2007 National Search and Rescue Conference, Charlotte, NC, May 31-June 2, 2007.

423. K.G. Furton, Latest capabilities of canines and instruments from A to F (accelerants, biotoxins, currency, drugs, explosives and flesh), Invited keynote speaker at the UKLEADS 7th International Seminar on Detection Dogs, Tullialian Castle, Fife, Scotland, June 8 – 10, 2007.
424. D. Hudson, A.M. Curran, A.A. Schoon and K.G. Furton, Variables Affecting Alerts Produced by Human Scent Identification Canines, UKLEADS 7th International Seminar on Detection Dogs, Tullialian Castle, Fife, Scotland, June 8 – 10, 2007.
425. P.A. Prada, A.M. Curran and K.G. Furton, Human Scent Evidence Collection for Instrumental and Canine Detection, UKLEADS 7th International Seminar on Detection Dogs, Tullialian Castle, Fife, Scotland, June 8 – 10, 2007.
426. Represented FIU at Alumni Advisors College as Hi Pi of the Pi Phi Zeta of Lambda Chi Alpha Chapter at the 2007 Stead Leadership Seminar in Memphis, Tennessee, July 25-29th, 2007.
427. K.G. Furton and S. Rose, Science Behind Narcotic Dog Alerts: The Significance of Alerts to the Odor of Drugs on Paper Currency, Invited speaker at the Louisiana District Attorneys Association Annual Conference, Destin, Florida, July 29-August 3.
428. K. G. Furton, Canines in Court: From Civil Forfeitures to Human Scent Criminal Cases, Invited panelist for session “The Future of Evidence”, ABA Section of Science & Technology Law, American Bar Association Annual Conference, San Francisco, CA, August 8 – 14, 2007
429. K.G. Furton, K. Overall, J. Greb and D. Kontny, Organized the meeting and chaired sessions at the 5th members meeting of the Scientific Working Group on Dog and Orthogonal Detection Guidelines, Fredricksburg, VA, August 12-16, 2007.
430. K.G. Furton, Chimie des odeurs, Invited talk at Horaire du seminaire de L’AMCPQ, September 9-14, St-Jean-sur-Richelieu, Quebec, Canada.
431. K.G. Furton, Detection of drugs, explosives and humans: Dogs vs Machines, invited talk for special session “Advances in Spectroscopy and Mass Spectrometry in Forensic Sciences” at the 34th Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Memphis, TN October 14-18, 2007.
432. K.G. Furton, Capabilities of Canines and Contraptions from A to F - Accelerants, Biotoxins, Currency, Drugs, Explosives and Flesh (dead and alive), Invited featured speaker at the 1st Detector Dog World Congress – Spain 2007, Barcelona, Spain, November 7-10, 2007.
433. K.G. Furton, Current Capabilities of Machines, Man and Man's Best Friend- Locating accelerants, biotoxins, currency, drugs, explosives and flesh, Invited speaker at the special seminar for Middle and High School Teachers entitled “Differences in Scent Discrimination between Dogs, Man and Machines ” at the 2007 Eastern Analytical Symposium, Somerset, New Jersey, November 11, 2007.
434. K.G. Furton, Chemistry of Scent: Science behind Canine location of contaminated currency, narcotics, explosives and human scent, California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 8-10, 2008. Invited instructor for two 2-hour sessions.

435. K.G. Furton, J. Greb and H. Holness, Optimized location of Forensic Evidence by Canines and Instruments Through Implementation of Best Practice Guidelines and SPME/GC-MS Methods, 60th Annual Scientific Meeting of the American Academy of Forensic Sciences, Washington, DC, February 17-22, 2008.
436. D.T. Hudson, A.A. Schoon and K.G. Furton, Variables Influencing the Ease With Which Canines Match Hand Odor Samples From Individuals, 60th Annual Scientific Meeting of the American Academy of Forensic Sciences, Washington, DC, February 17-22, 2008.
437. J.N. Aarons and K.G. Furton, Laboratory and Field Experiments Used for the Determination of Odor Signature Chemicals in Marijuans, 60th Annual Scientific Meeting of the American Academy of Forensic Sciences, Washington, DC, February 17-22, 2008.
438. L. DeGreeff, S. Herran and K.G. Furton, The Development of the Human Scent Collection for the Minimalization of Environmental Contamination During Non-Contact Human Scent Sampling, 60th Annual Scientific Meeting of the American Academy of Forensic Sciences, Washington, DC, February 17-22, 2008.
439. M.S. Macias, L. Calvo and K.G. Furton, Canine Detection Using a Calibration Standard and an Optimized Explosive Training Aid System, 60th Annual Scientific Meeting of the American Academy of Forensic Sciences, Washington, DC, February 17-22, 2008.
440. P.A. Prada, A.M. Curran and K.G. Furton, Determining Individual Hand Odor Profiles Through Non-Contact Scent Collection Methodologies, 60th Annual Scientific Meeting of the American Academy of Forensic Sciences, Washington, DC, February 17-22, 2008.
441. M. Kusano, E. Mendez and K.G. Furton, Pilot Study of the Potential for Using Different Biological Specimens as Human Scent Sources, 60th Annual Scientific Meeting of the American Academy of Forensic Sciences, Washington, DC, February 17-22, 2008.
442. K.G. Furton, Chemistry of Detector Dog Alerts to Narcotics and Contaminated Currency, Invited speaker at the Correctional Service Canada National Dog Handler Conference, Cornwall, Ontario, March 3-4, 2008.
443. K.G. Furton, K. Overall, J. Greb and D. Kontny, Organized the meeting and chaired sessions at the 6th members meeting of the Scientific Working Group on Dog and Orthogonal Detection Guidelines, Dallas, TX, March 9-13, 2008.
444. Davia Hudson and K.G. Furton, 84th ACS Florida Annual Meeting and Exposition (FAME 2008), Orlando, FL, May 8-10, 2008.
445. K.G. Furton, The Detection of Human Scent Traces and the Development of Best Practice Guidelines, HITS 2008, Handler Instruction and Training Seminar, Denver, Colorado, May 28-31, 2008.
446. K.G. Furton, The Chemistry of Scent and Canine Detection of Drugs and Contaminated Currency, HITS 2008, Handler Instruction and Training Seminar, Denver, Colorado, May 28-31, 2008.
447. K.G. Furton, K. Overall, J. Greb and D. Kontny, Organized the meeting and chaired sessions at the 7th members meeting of the Scientific Working Group on Dog and Orthogonal Detection Guidelines, Fredricksburg, VA, September 14-18, 2008.

448. K.G. Furton, J. Greb and D. Kontny, Organized the meeting and chaired sessions at the 8th members meeting of the Scientific Working Group on Dog and Orthogonal Detection Guidelines, Dallas, TX 3/1/09 – 3/5/09.
449. K.G. Furton, Invited speaker at Panel A: Emerging Scientific Disciplines: Directions and Priorities, The First Sino-US Summit on Science Education and Research, Peking University, Shanghai, China, October 23, 2008. Part of a 12 member U.S. NSF Delegation of Science Deans, October 20-31, 2008 visiting universities in Beijing, Xian and Shanghai.
450. K.G. Furton, Invited speaker at Panel C: Overcoming Obstacles Facing Scientific Research Management: Organizations, Faculty Recruitment and Development, and Fund Acquisition and Management, The First Sino-US Summit on Science Education and Research, Peking University, Shanghai, China, October 23, 2008.
451. K.G. Furton, Chemistry of Scent: Science behind K9 detection of contaminated currency, narcotics, explosives and human scent, California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 12-15, 2009. Invited instructor for two 2-hour sessions.
452. M. Kusano, E. Mendez and K.G. Furton, HS-SPME/GC-MS Analysis of Various Biological Specimens Using VOCs, A37, 61st Annual Scientific Meeting of the American Academy of Forensic Sciences, Denver, Colorado, February 17-22, 2009.
453. J.S. Wirks, P.A. Prada, A. M. Curran and K.G. Furton, The Optimization and Evaluation of the Headspace Analysis of Head Hair Samples for the Application as a Human Scent Source, A38, 61st Annual Scientific Meeting of the American Academy of Forensic Sciences, Denver, Colorado, February 17-22, 2009.
454. L.E. DeGreeff, A.M. Curran and K.G. Furton, Evaluation of the Scent Transfer Unit (STU-100) for the Non-Contact Sampling of Volatile Compounds, A49, 61st Annual Scientific Meeting of the American Academy of Forensic Sciences, Denver, Colorado, February 17-22, 2009.
455. K.G. Furton, The Scientific Working Group on Dog and Orthogonal Detector Guidelines, A118, 61st Annual Scientific Meeting of the American Academy of Forensic Sciences, Denver, Colorado, February 17-22, 2009.
456. P.A. Prada, A.M. Curran, N.I. Caraballo and K.G. Furton, The Evaluation of Human Hand Odor Volatiles on Various Fiber Chemistries: A Comparison Between Contact and Non-Contact Sampling Methodologies, A156, 61st Annual Scientific Meeting of the American Academy of Forensic Sciences, Denver, Colorado, February 17-22, 2009.
457. M.S. Macias and K.G. Furton, MDMA Synthesis Affecting Canine Detection, A166, 61st Annual Scientific Meeting of the American Academy of Forensic Sciences, Denver, Colorado, February 17-22, 2009.
458. K.G. Furton, Identifying Odorants and Establishing Best Practice Guidelines for Explosive Detection Canines, Invited speaker for Workshop “Measurements and Standards for Trace Explosives (2080-4), PittCon 2009, Denver, Colorado, March 8-13, 2009.

459. K.G. Furton, Identification of Odorant Molecules Emanating from Explosives, Narcotics and Persons, Invited speaker at the UKLEADS 8th International Symposium on Detector Dogs, Moreton-in-Marsh, U.K., March 4-6, 2009.
460. E. Mendez , K.G. Furton, Potential for Identical Twin Differentiation using Volatile Organic Compounds found in Blood. 2009 Honors College Research Conference, Miami, Fl. March 26, 2009.
461. E. Mendez, S. Rose, H. Holness, K.G. Furton, The Response of the Intoxilyzer 8000 to Volatile Organic Compounds Found in the Human Breath at Physiologic Concentrations, Second Annual Life Sciences Research Symposium, Miami Florida. March 28, 2009. Award: Best Poster Presentation
462. E. Mendez, M. Kusano and K.G. Furton, Preliminary Study of Volatile Organic Compounds in Blood using FTA cards and SPME-GC/MS, 23rd National Conference on Undergraduate Research (NCUR), La Crosse, Wisconsin, April 16-18, 2009.
463. E. Mendez, S. Rose, H. Holness, K.G. Furton The Response of the Intoxilyzer 8000 to Volatile Organic Compounds Found in the Human Breath at Physiologic Concentrations FAME, Orlando, Florida. May 2009.
464. K.G. Furton, The Expanded Use of Biological and Electronic Sensors in Forensic Science (K13.4), Keynote speaker at the European Academy of Forensic Sciences, September 8-11, 2009
465. K.G. Furton, J. Greb and D. Kontny, Organized the meeting and chaired sessions at the 9th members meeting of the Scientific Working Group on Dog and Orthogonal Detection Guidelines, Tampa, FL, 9/13/09 – 9/17/09.
466. K.G. Furton, Recent Advances in the Use of Human Scent as Forensic Evidence, Invited talk at the Dubai Police Forensic Laboratory, Dubai, U.A.E., 9/28/09.
467. K.G. Furton, Rewarding Faculty – Approaches to T&P Review and Joint Appointments, Invited moderator at the Science and Math Teacher Imperative (SMTI) Leadership Collaborative Retreat, Miami, FL, 1/6-8/2010.
468. K.G. Furton, Chemistry of Scent: Science behind K9 detection of forensic specimens, California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 12-15, 2010. Invited instructor for two 2-hour sessions.
469. L.E. DeGreef and K.G. Furton, Collection of Human Remains Volatiles by Non-Contact Dynamic Airflow Sampling , A27, 62nd Annual Scientific Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 22-27, 2010.
470. K.G. Furton, J. Greb and H. Holness, Improved Location of Forensic Evidence Through Implementation of the Scientific Working Group on Dog and Orthogonal Detector Guidelines , A169, 62nd Annual Scientific Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 22-27, 2010.

471. P.A. Prada, A.M. Curran and K.G. Furton, Temperature and Humidity Effects on the Stability of Human Odor, A170, 62nd Annual Scientific Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 22-27, 2010.
472. J.S. Wirks and K.G. Furton, An Evaluation of Volatile Organic Compounds From Biological Specimens Over Time, A206, 62nd Annual Scientific Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 22-27, 2010.
473. K.G. Furton, J. Greb and D. Kontny, Organized the meeting and chaired sessions at the 10th members meeting of the Scientific Working Group on Dog and Orthogonal Detection Guidelines, Tampa, FL, 3/1/10 – 3/3/010.
474. K.G. Furton, Improved Crime Scene Detection of Drugs, Explosives and Human Scent with Biological and Electronic Detectors, invited speaker for “Forensic Analysis: From the Lab to the Crime Scene” (1060-5), PittCon 2010, Orlando, Florida, February 28 – March 5 2010.
475. L.E. DeGreef and K.G. Furton, Determination of Human Remains Using Non-Contact Dynamic Airflow Sampling (930-78P), PittCon 2010, Orlando, Florida, February 28 – March 5 2010.
476. M. Kusano and K.G. Furton, A 6-month Study of the Characteristic Human Scent VOCs Present in Various Biological Specimens (1000-65), PittCon 2010, Orlando, Florida, February 28 – March 5 2010.
477. J.S. Wirks and K.G. Furton, The Evaluation of VOCs from Novel Biological Specimens by Non-Destructive Analytical Techniques for Use in Forensic Identifications (1000-11P), PittCon 2010, Orlando, Florida, February 28 – March 5 2010.
478. K.G. Furton, Improved Work Dog Detection of Accelerants, Drugs, Explosives and Human Scent through Research and Adoption of SWGDOG Best Practices, North American Police Work Dog Association (NAPWDA) national workshop, April 30 - May 7, 2010, Eureka, Missouri, Invited speaker for 2 four hour lectures.
479. K.G. Furton, Improving Biological and Orthogonal Detectors using Forensic Odor Mimics and Best Practice Guidelines, 86th Florida Annual Meeting and Exposition (FAME), Innisbrook, Florida, May 13-15, 2010. Invited Plenary speaker – Forensic Program.
480. K. Beltz, K.G. Furton, Explosives Training Aid Kid: A Tool for the Enhancement of Explosives Detection Canine Training, 86th Florida Annual Meeting and Exposition (FAME), Innisbrook, Florida, May 13-15, 2010.
481. J. Wirks-Brown, K.G. Furton, Assessment of Human Scent Volatiles for the Discrimination of Individuals Canine Training, 86th Florida Annual Meeting and Exposition (FAME), Innisbrook, Florida, May 13-15, 2010
482. L. DeGreeff, K.G. Furton, Collection and Determination of Human Remains Volatiles by non-contact, Dynamic Airflow Sampling, 86th Florida Annual Meeting and Exposition (FAME), Innisbrook, Florida, May 13-15, 2010.

483. K.G.Furton, Improving Biological and Orthogonal Detectors using Forensic Odor Mimics and Best Practice Guidelines, 86th Florida Annual Meeting and Exposition (FAME), Innisbrook, Florida , May 13-15, 2010.
484. J.La Salvia, J.Mendel, K.G.Furton, D.Mills, Recovery of Human Cells from Smooth Surfaces using Polycarbonate Filaters for Subsequent DNA Profiling, 86th Florida Annual Meeting and Exposition (FAME), Innisbrook, Florida, May 13-15, 2010.
485. N.Caraballo, H.K.Holness, D.Mills, K.G.Furton, A Preliminary Evaluation for the Utilization of the Scent Transfer Unit (STU-100) for the Collection of Human Odor from Porous and Non-porous Objects, 86th Florida Annual Meeting and Exposition (FAME), Innisbrook, Florida, May 13-15, 2010.
486. K.G. Furton, Enhancing the Performance of Canine Teams through Research and Implementation of the Scientific Working Group on Dog and Orthogonal detector Guidelines (SWGDOG), 2010 NASAR National Search and Rescue Conference, Tunica, Mississippi, May 13-15, 2010, Invited speaker for 2 hour lecture
487. K.G. Furton, Advances in the Science Behind Canine and Instrumental Detection of Drugs and Humans, invited keynote speaker at the annual Pacific Northwest Police Detection Dog Association Annual Conference, Bellingham, WA, May 17-21, 2010.
488. K.G. Furton , J. Greb and D. Kontny, “The Scientific Working Group on Dog and Orthogonal Detection Guidelines”, Scientific Working Group (SWG) Chairs meeting, Quantico, VA, June 1, 2011.
489. K.G. Furton, J. Greb and D. Kontny, “Update on the Scientific Working Group on Dog and Orthogonal Detection Guidelines (SWGDOG)”. Organized the meeting and chaired sessions at the 10th SWGDOG members meeting, Burbank, CA, 9/12/10 – 9/16/10.
490. K.G. Furton, Proving the Presence and Significance of Drug Odors on Seized Currency, Invited speaker for Legal Update Seminar of the Florida Association of Police Attorneys (FAPA), St. Augustine, Florida, October 7-8, 2010.
491. K.G. Furton, Which Nose Knows?, “Lessons Learned When Chemistry Goes to the Dogs”, Invited Keynote Lecture for the Twelfth Annual Chemistry Graduate Symposium, Wayne State University, Detroit, Michigan, October 9, 2010.
492. K.G. Furton, Recent Developments in Identifying Forensic Odorants Utilizing SPME Instrumental Detection and Canine Field Trials, Invited speaker at Supelco/Sigma-Aldrich Seminar on “Innovations in Chromatography and Sample Prep” Miramar, FL, November 9, 2010.
493. K.G. Furton, Technology vs. K9, Second Annual Amtrak Police K9 unit Conference, Miami, Fl, November 16-19, 2010.
494. P.A. Prada, G. Nevitt and K.G. Furton, A preliminary analysis of naturally occurring volatile organic compounds associated with nest-sites and feathers from Leach’s storm-petrels, *Oceanodroma leucorhoa*, Society of Integrative and Comparative Biology, 2011 Annual Meeting, January 3-7, 2011.

495. K.G. Furton, Chemistry of Scent: Chemistry of Scent Narcotics, Currency, Explosives and Persons. California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 12-15, 2011. Invited instructor for two 2-hour sessions.
496. N.I. Caraballo, H. Holness, D. Mills and K.G. Furton, Evaluation of the Scent Transfer Unit (STU-100) for the Collection of Human Odor from Porous Objects, 63rd Annual Scientific Meeting of the American Academy of Forensic Sciences, Chicago, IL, February 21-26, 2011.
497. J.S. Wirks-Brown and K.G. Furton, Comparison of the Instrumental and Canine Evaluations of the Chemical Composition of Biological Specimens for Human Scent Discrimination, 63rd Annual Scientific Meeting of the American Academy of Forensic Sciences, Chicago, IL, February 21-26, 2011.
498. K. Beltz and K.G. Furton, Validation of a Prototype Surrogate Explosives Kit as a Tool for the Enhancement of Explosive Detection Canine Training, 63rd Annual Scientific Meeting of the American Academy of Forensic Sciences, Chicago, IL, February 21-26, 2011.
499. K.G. Furton and J. Greb, Update on the Adoption of the Scientific Working Group on Dog and Orthogonal Detector Guidelines (SWGDOG), 63rd Annual Scientific Meeting of the American Academy of Forensic Sciences, Chicago, IL, February 21-26, 2011.
500. P.A. Prada, A.M. Curran and K.G. Furton, Evaluation of the Operational Parameters of a Non-Contact Airflow Dynamic Device for Collection of Scent Trace Evidence, 63rd Annual Scientific Meeting of the American Academy of Forensic Sciences, Chicago, IL, February 21-26, 2011.
501. K. G. Furton, Lowering Detection Limits and Raising Reliability of K9 Teams with Optimized Training Aids and Combinations, Invited speaker at the UKLEADS 9th International Symposium on Detector Dogs, Moreton-in-Marsh, U.K., February 28 - March 2, 2011.
502. K. Beltz and K.G. Furton, Selection of the Optimal Containment Vessel for the Storage of Explosives Training Aids, PittCon 2011, Atlanta, GA March 13-18, 2011.
503. J. Wirks-Brown and K.G. Furton, Analysis of Hand Odor Utilizing Various Extraction Techniques to Provide a Comprehensive Assessment of Volatile Components, PittCon 2011, Atlanta, GA March 13-18, 2011.
504. K.G. Furton, C. Sanchez, K. Beltz, J. Brown, N. Iris Caraballo, Rapid Field Detection of Forensic Odorants Using Biological and Orthogonal Detectors, Invited paper for Session 820 - Forensic Analysis at the Crime Scene and in the Lab arranged by I.K. Lednev, PittCon 2011, Atlanta, GA March 13-18, 2011.
505. K.G. Furton, J. Greb and D. Kontny, Organized the meeting and chaired sessions at the 11th members meeting of the Scientific Working Group on Dog and Orthogonal Detection Guidelines, Tampa, FL, 3/20/11 – 3/23/11.
506. N.I. Caraballo, H.K. Holness, D.K. Mills and K.G. Furton, Evaluation of the Scent Transfer UnitTM (STU-100) for the Collection of Human Odor from Porous Objects, Graduate and Professional Student Committee (GPSC) Scholarly Forum, Florida International University, Miami, Florida, March 29, 2011. Ms. Caraballo won 1st Place in the Forensics and Crime Poster Session.

507. J.S. Wirks-Brown and K.G. Furton, Comparison of the Instrumental and Canine Evaluations of the Chemical Composition of Biological Specimens for Human Scent Discrimination, Graduate and Professional Student Committee (GPSC) Scholarly Forum, Florida International University, Miami, Florida, March 29, 2011. Mrs. Wirks-Brown won 2nd Place in the Forensics and Crime Poster Session.
508. K. Beltz and K.G. Furton, Validation of a Prototype Surrogate Explosives Kit as a Tool for the Enhancement of Explosive Detection Canine Training, Graduate and Professional Student Committee (GPSC) Scholarly Forum, Florida International University, Miami, Florida, March 29, 2011. Ms. Beltz won 1st Place in the Forensics and Crime Oral Presentation Session.
509. K.G. Furton, Improved detection of drugs, explosives, humans and human remains through research and adoption of best practices, Invited keynote speaker at the Washington State Police Canine Association 2011 Spring Seminar, Provided 6 hours of class lecture. Kirkland, WA, April 18-20, 2011.
510. P.A. Prada, K.G. Furton and G. Nevitt, Testing the Ability of Birds to Detect Explosive Odorants: Comparison with Canine Abilities and Instruments, The 11th Annual Intelligence Community Postdoctoral Research Fellowship, Colloquium Tysons Corner, VA, April 2011.
511. A. Miziolek, M. Martin, K.G. Furton, G. Borghi, J. Lewoczko, J. Almirall, Special Panel Discussion, LIBS in the Courtroom: Recent Examples and Future Potential, 3rd North American Symposium on Laser-Induced Breakdown Spectroscopy, Clearwater Beach, FL, July 18-20, 2011.
512. K.G. Furton, Improving canine consistency by employing field calibrants and international best practices, Penn Vet International Working Dog Conference, Pearl River, NY, September 7-9, 2011.
513. K.G. Furton, Admission of Novel Forensic Evidence in Capital Murder Trials, School of Integrated Science and Humanity Lecture at LaGorce Country Club, October 28, 2011.
514. K. G. Furton, Improving Canine and Instrument Reliability By Employing Field Calibrants and International Best Practices, invited presentation at FLIR, Stillwater, Oklahoma, September 28, 2011.
515. K.G. Furton, The Arts & Science of Forensic Science, Tools for Success STEM Lecture Series, Miami-Dade College – Kendall Campus, November 30, 2011.
516. K.G. Furton, Update on SWGDOG, Scientific Working Groups / Interagency Working Groups Meeting, Washington, DC, December 7-8, 2011.
517. K.G. Furton, Chemistry of Scent: Chemistry of Scent Narcotics, Currency, Explosives and Persons. 21st Annual CNCA Narcotic, Explosive and Patrol K9 Handler Conference, California, January 8-12, 2012. Invited instructor for two 2-hour sessions.
518. P.A. Prada, K.G. Furton and G. Nevitt, First Demonstration that Procellariiforms can Smell Plastic: The Good, The Bad and the Implications, The 39th Annual Pacific Seabird Group Meeting (PSG), Haleiwa, HI February 7-10, 2012

519. P.A. Prada, C.L. Sánchez, T.O'Dwyer, K.G. Furton and G. Nevitt, What the Nose Knows Best: Volatiles from Feathers and Nest Soil as Potential Individual Odor Signatures in Two Distinct Petrel Species, The 39th Annual Pacific Seabird Group Meeting (PSG), Haleiwa, HI February 7-10, 2012.
520. K.G. Furton, The Arts & Science of Forensic Science, Tools for Success STEM Lecture Series, Miami-Dade College – Wolfson Campus, February 15, 2012.
521. L.K. Baden, K. G. Furton, H.M. Pitluck, J.A. Baez, Timothy T.E. Huntington, K.J. Reichs, J.H. Bock, L. Koblinsky, W. Spitz, A.B. Falsetti and B.K. Logan, The Casey Anthony Trial – From the Defense, Medical, and Scientific Viewpoint, 64th Annual Scientific Meeting of the American Academy of Forensic Sciences, Atlanta, GA, February 20 - 25, 2012.
522. K.Beltz; K.G. Furton, The Effects of Containment System Selection for the Storage of Surrogate Continuation Aids, 64th Annual Scientific Meeting of the American Academy of Forensic Sciences, Atlanta, GA, February 20 - 25, 2012.
523. J.S. Brown, and K.G. Furton, The Use of Canine Field Testing to Optimize the Operating Parameters of a Non-Contact Collection Device for Human Scent, 64th Annual Scientific Meeting of the American Academy of Forensic Sciences, Atlanta, GA, February 20 - 25, 2012.
524. C.L. Sanchez, P.A. Prada and K.G. Furton, Avian Olfaction in Forensic Context: A Preliminary Analysis of Naturally Occurring Volatile Organic Compounds Associated With Feathers From Procellariiforms, 64th Annual Scientific Meeting of the American Academy of Forensic Sciences, Atlanta, GA, February 20 - 25, 2012.
525. J. Greb and K.G. Furton, SWGDOG and ICODD: Latest Dog and Orthogonal Detector Best Practices and Development of an Accreditation Program, 64th Annual Scientific Meeting of the American Academy of Forensic Sciences, Atlanta, GA, February 20 - 25, 2012.
526. P.A. Prada, G.Nevitt and K.G. Furton, Testing the Ability of Birds to Detect Forensic Odorants: Comparison With Canine Abilities and Instruments, 64th Annual Scientific Meeting of the American Academy of Forensic Sciences, Atlanta, GA, February 20 - 25, 2012.
527. N.I. Caraballo; K.G. Furton, Frozen-Thawed vs. Freshly Killed: A Comparison of the Volatile Organic Compounds Detected From Decomposing Remains, 64th Annual Scientific Meeting of the American Academy of Forensic Sciences, Atlanta, GA, February 20 - 25, 2012. Ms. Caraballo won 2012 Forensic Sciences Foundation Student Scholarship Award Competition.
528. M. Cerreta, A. Kabir and K.G. Furton, The Optimization of a Sol Solution for Its Use With Molecular Imprinting for the Extraction of Illicit Drugs, 64th Annual Scientific Meeting of the American Academy of Forensic Sciences, Atlanta, GA, February 20 - 25, 2012.
529. N.I. Caraballo and K.G. Furton, Frozen-Thawed vs. Freshly Killed: A Comparison of the Volatile Organic Compounds Detected From Decomposing Remains, Graduate and Professional Student Committee (GPSC) Scholarly Forum, Florida International University, Miami, Florida, February 27, 2012.
530. K. Beltz and K.G. Furton, The Effects of Containment System Selection on the Storage of Surrogate Continuation Aids, Graduate and Professional Student Committee (GPSC) Scholarly

- Forum, Florida International University, Miami, Florida, February 27, 2012. Ms. Beltz won 2nd Place in the Forensics and Crime Poster Session.
531. J. Brown and K.G. Furton, The Use of Canine Field Testing to Optimize the Operating Parameters of a Non-Contact Collection Device for Human Scent, Graduate and Professional Student Committee (GPSC) Scholarly Forum, Florida International University, Miami, Florida, February 27, 2012.
 532. M. Cerreta and K.G. Furton, The Development of a Novel Sol Gel Polymeric Network for the Molecular Imprinting of Illicit Drugs, Graduate and Professional Student Committee (GPSC) Scholarly Forum, Florida International University, Miami, Florida, February 27, 2012.
 533. K.G. Furton, Testifying in the Shadows of Death: A Compelling Narrative Supported by Solid Evidence, FIU – Fisher Island Lecture Series, Fisher Island, Miami, Florida, February 28, 2012.
 534. K.G. Furton, Testifying in the Shadow of Death: A Compelling Narrative Supported by Solid Evidence, Center for the Humanities in an Urban Environment Fisher Island Lecture Series, Fisher Island, Florida, February 28, 2012.
 535. K.G. Furton, Casey Anthony: Forensics on Trial, Admissibility of Novel Scientific Evidence, Annual Forensic Science Symposium, 1st Annual International Forensic Research Institute Symposium, Miami, Florida, March 9-10, 2012.
 536. K. Beltz and K.G. Furton, Improvement of Detection Canine Training: Validation of a Prototype Surrogate Explosives Kit, Annual Forensic Science Symposium, 1st Annual International Forensic Research Institute Symposium, Miami, Florida, March 9-10, 2012.
 537. V. Shellman, N.I. Caraballo, J.S. Brown, A.Kabir and K G. Furton, Headspace Solid-Phase Micro Extraction Coupled to Gas Chromatography/Mass Spectrometry (HS-SPME-GC/MS) for the Detection of Caffeine in Cocaine, an Over the Counter (OTC) Medicine and a Coffee Sample, 1st Annual International Forensic Research Institute Symposium, Miami, Florida, March 9-10, 2012.
 538. N.I. Caraballo and K.G. Furton, Method Optimization for the Detection of Volatile Organic Compounds from Decomposing Remains, 1st Annual International Forensic Research Institute Symposium, Miami, Florida, March 9-10, 2012.
 539. M. Cerreta, A. Kabir, K.G. Furton, Development of a Novel Sol Gel Polymeric Network for the Molecular Imprinting of Illicit Drugs, Annual Forensic Science Symposium, 1st Annual International Forensic Research Institute Symposium, Miami, Florida, March 9-10, 2012.
 540. P. Davis and K.G. Furton, Advancement in the Qualitative and Quantitative Analysis of Volatile Organic Compounds found in Human Breath and Blood for Medical and Forensic Purposes Using SPME-GC-MS, 1st Annual International Forensic Research Institute Symposium, Miami, Florida, March 9-10, 2012.
 541. A.A. Mckenzie Coe; J.S. Brown, N.I. Caraballo, A. Kabir and K.G. Furton, Identification and Comparison of Volatile Organic Compounds in Cigarettes and Marijuana Samples using Solid Phase Microextraction and Gas Chromatography/Mass Spectrometry (SPME-GC/MS), 1st Annual International Forensic Research Institute Symposium, Miami, Florida, March 9-10, 2012.
 542. C. Sanchez, P. Prada and K.G. Furton, Avian Olfaction in Forensic Context: A Preliminary Analysis of Naturally Occurring Volatile Organic Compounds Associated With Feathers from

- Procellariiforms, 1st Annual International Forensic Research Institute Symposium, Miami, Florida, March 9-10, 2012.
543. M. Cerreta, A. Kabir and K.G. Furton, The Development of a Novel Sol Gel Polymeric Network for the Molecular Imprinting of Illicit Drugs, PittCon 2012, Orlando, Florida, March 11-15, 2012.
544. K.G. Furton, Collection and Analysis of Human Scent as Forensic Evidence from Crime Scenes, PittCon 2012, Orlando, Florida, March 11-15, 2012.
545. K. Beltz and Kenneth G Furton, Improvement of Detection Canine Training: Validation of a Prototype Surrogate Explosives Kit, PittCon 2012, Orlando, Florida, March 11-15, 2012.
546. N.I. Caraballo and Kenneth G Furton, Method Optimization for the Detection of Volatile Organic Compounds from Decomposing Remains, PittCon 2012, Orlando, Florida, March 11-15, 2012.
547. K.G. Furton, N.I. Caraballo, J.S. Brown and L. DeGreeff, Advances in the Field and Laboratory Detection of Human Remains, PittCon 2012, Orlando, Florida, March 11-15, 2012.
548. C.L. Sanchez, Paola A Prada, Kenneth G Furton, Gabrielle Nevitt, A Preliminary Analysis Linking Avian Olfaction to Potential Forensic Applications, PittCon 2012, Orlando, Florida, March 11-15, 2012.
549. K.G. Furton, Importance of mentors and graduate school on future career options and decision, Keynote address for McNair Fellows Induction Ceremony, Florida International University, Miami, Florida, March 23, 2012.
550. K.G. Furton, Death Penalty Symposium: Forensic Evidence and the Death Penalty, Department of Religious Studies, Florida International University, April 12, 2012.
551. K.G. Furton, CSI: Crime and Science, Invited speaker at the Third Annual Food for Talk, Miami Beach, April 19, 2012.
552. K.G. Furton, J.S. Brown, N.I. Carabalo, K. Beltz and L. DeGreeff, Optimization of Canine Human Scent Detection and Improving Canine Performance and Consistency by Employing Field Calibrants, Invited moderator for "Human Factors" session, Caine Science and Technology Forum, Imperial College, London, UK, April 26-27, 2012.
553. K.G. Furton, N.I. Caraballo, J.S. Brown, L. DeGreeff, Advances in the Field and Laboratory Detection of Live Scent and Human Remains: From the Crime Scene to the Courtroom, 88th Annual Florida Annual Meeting and Exposition (FAME), Tampa, Florida, May 17-19, 2012.
554. M. Cerreta, A. Kabir, K.G. Furton, The Development of a Novel Sol Gel Polymeric Network for the Molecular Imprinting of Illicit Drugs, 88th Annual Florida Annual Meeting and Exposition (FAME), Tampa, Florida, May 17-19, 2012.
555. J.S. Brown, K.G. Furton, Exploring Human Scent with Instruments and Canines, 88th Annual Florida Annual Meeting and Exposition (FAME), Tampa, Florida, May 17-19, 2012.
556. E. Brewe, K.G. Furton and L. Kramer, Physics Modeling Instruction (selected as a SMTI promising practice), APLU's 2012 Science and Mathematics Teacher Imperative National Conference, Old Town Alexandria, VA, June 6 – 8, 2012.

557. K.G. Furton, Latest Canine Research at FIU, invited update talk at USARO R&D Symposium, Raleigh, NC, June 19, 2012.
558. P.A.Prada, K.G. Furton, G. Nevitt, Olfactory Evidence: A New Era for Odor Profiling in Birds, XVI International Symposium on Olfaction and Taste (ISOT), Stockholm, Sweden, June 23-26, 2012.
559. K.G. Furton, Human Scent Tracking, What Odor Are You Following?, Invited instructor at the 6th Annual Handler Instruction & Training Seminar (HITS 2012), Seattle, WA, August 21-24, 2012.
560. K.G. Furton, Pseudo vs Real Drug Odor, Which to Train With?, Invited instructor at the 6th Annual Handler Instruction & Training Seminar (HITS 2012), Seattle, WA, August 21-24, 2012.
561. P.A. Prada, K.G. Furton and G. Nevitt, Detection of Explosive Analog Odors by Birds, 12th Annual Intelligence Community Postdoctoral Research Fellowship Annual Project Update, Washington DC, September 24-26, 2012.
562. K.G. Furton, Update on SWGDOG, An invited attendee to help develop SWG bylaws, Scientific Working Groups / Interagency Working Groups Meeting, Washington, DC, October 16-18, 2012.
563. J. Hildreth, K.G.Furton and J. Agro, How a Dog Can Be Your Star Witness in Your Forfeiture Case!, invited speaker at Asset Forfeiture Conference, Batavia, NY, October 23, 2012.
564. E. Ray, N. Finkelstein, K.G. Furton, M.J. O’Hair and J.B. Presley, Improving STEM Teaching and Learning: Leveraging STEM Education Centers, 125th APLU Annual Meeting, Denver, CO, November 11-13, 2012.
565. K.G. Furton, Chemistry of Scent: Odor Signatures from Narcotics, Currency, Explosives and Persons. 21st Annual CNCA Narcotic, Explosive and Patrol K9 Handler Conference, Burbank, California, January 7-10, 2013. Invited instructor.
566. P.R. Davis, S. Rose, K.G. Furton, An Investigation into Volatile Organic Compounds that Have the Potential to Cause False Positives in Blood Alcohol Analysis, 65th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Washington, D.C., February 18-23, 2013.
567. K.G. Furton, J. Greb. Enhancing Canine Performance through Improved Training Materials and Adoption of International Best Practices (SWGDOG and ICODD), 65th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Washington, D.C., February 18-23, 2013.
568. K. Beltz, M. Cerreta, K.G. Furton, The Development of Field Calibrants for Detection Canines, 65th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Washington, D.C., February 18-23, 2013.
569. L.J. Colon-Crespo, J.S. Brown, N.I. Caraballo, K.G. Furton, Advances in the Forensic Use of Human Scent, 65th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Washington, D.C., February 18-23, 2013.
570. N.I. Caraballo and K.G. Furton, An Investigation Into the Volatile Organic Compounds Released From Submerged Remains, 65th Annual Scientific Meeting of the Academy of Forensic Sciences

- (AAFS), Washington, D.C., February 18-23, 2013. Ms. Caraballo won the Forensic Sciences Foundation (FSF) Student Travel Grant 2013.
571. K.G. Furton, Advances in the Sampling and Identification of Illicit Substances and Persons in the Field and in the Lab, The Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Philadelphia, Pennsylvania, March 17-21, 2013.
572. C.L. Sanchez, H. Holness, P.A. Prada, K.G. Furton, Analysis of Volatile Organic Compounds of Heroin for Canine Detection by Using Solid Phase Microextraction/Gas Chromatography-Mass Spectrometry (SPME/GC-MS), 2nd Annual International Forensic Research Institute (IFRI) Symposium, Florida International University, Miami, Florida, March 13-14, 2013.
573. K. Beltz, M. Cerreta, K.G. Furton, The Development of Field Calibrants for Detection Canines, 2nd Annual International Forensic Research Institute (IFRI) Symposium, Florida International University, Miami, Florida, March 13-14, 2013.
574. N.I. Caraballo and K.G. Furton, Submerged Remains: A Study on the Scent of Death, 2nd Annual International Forensic Research Institute (IFRI) Symposium, Florida International University, Miami, Florida, March 13-14, 2013.
575. N.I. Caraballo and K.G. Furton, An Investigation Into the Volatile Organic Compounds Released From Submerged Remains, Graduate and Professional Student Committee (GPSC) Scholarly Forum, Florida International University, Miami, Florida, March 25-26, 2013. Ms. Caraballo won 1st Place in the Forensics and Crime Oral Presentation Session.
576. N.I. Caraballo and K.G. Furton, An Investigation Into the Volatile Organic Compounds Released From Submerged Remains, Florida Statewide Graduate Student Research Symposium, University of South Florida, Tampa, Florida, April 19, 2013.
577. N.I. Caraballo and K.G. Furton, Scent of the Living and the Dead: Its Application in Criminal Investigations, Invited Speaker at the Contemporary Methods of Forensic Anthropology and Crime Scene Investigation Course, Broward Sheriff's Office, Fort Lauderdale, Florida, April 29-May 3, 2013.
578. K.G. Furton, Canine Odor Recognition: Odor on Currency and Understanding Double Blind Testing, Invited speaker at 15th Annual Detection K9 Conference, Bend, Oregon, May 13-17, 2013.
579. K.G. Furton, Chemistry of Scent: Chemistry of Scent Narcotics, Currency, Explosives and Persons. California Narcotic Canine Association (CNCA) Annual Training Conference, Burbank, California, January 27-30, 2014. Invited instructor.
580. L.J. Colon-Crespo, D. Herrera-Hernández; H. Holness, A. Kabir, K.G. Furton, A. Fan, L. Du-Thumm, Evaluation of Human Scent As Possible Classification Evidence, 66th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Seattle, WA, February 17-22, 2014.
581. R. Mesa, A. Kabir, K.G. Furton, Analysis of Trace Organics at Parts-per-Trillion Level Concentrations Using a Novel Sample Preparation Technique: Fabric Phase Sorptive Extraction, 66th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Seattle, WA, February 17-22, 2014.

582. A.M. Huertas, C.L. Sanchez, K.G. Furton, Evaluation of the Volatiles Organic Compounds Released From an Illicit Substance for the Development of Improved Field Calibrants for Instrumental and Canine Detection, 66th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Seattle, WA, February 17-22, 2014.
583. M. Cerreta, K.G. Furton, Detection Canine Field Accuracy to Flowers Producing Methyl Benzoate (A Cocaine Odorant), 66th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Seattle, WA, February 17-22, 2014.
584. P.R. Davis, A. Kabir, K.G. Furton, Development of an Improved Extraction and Analysis Technique for Human Scent Evidence Analysis, 66th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Seattle, WA, February 17-22, 2014.
585. Colón-Crespo, L.J.; Herrera-Hernández, D.; Holness, H.; Kabir, A.; Furton, K.G.; Fan, A.; Du-Thumm, L., Use of Human Scent as a Classification Tool for Individuals, Florida Annual Meeting and Exposition (FAME), Tampa, Florida, May 8 - May 10, 2014.
586. Herrera-Hernández, D.; Colón-Crespo, L.J.; Holness, H.; Furton, K.G.; Fan, A.; Du-Thumm, L., Enhancement of Human Scent Detection through the use of Exhaustive Liquid Extraction Methods, Florida Annual Meeting and Exposition (FAME), Tampa, Florida, May 8 - May 10, 2014.
587. Colón-Crespo, L.J.; Herrera-Hernández, D.; Holness, H.; Kabir, A.; Furton, K.G.; Fan, A.; Du-Thumm, L., Evaluation of Human Scent As Possible Classification Evidence, 3rd Annual International Forensic Research Institute (IFRI) Symposium, Florida International University, Miami, Florida, April 30 - May 1, 2014.
588. Herrera-Hernández, D.; Colón-Crespo, L.J.; Holness, H.; Furton, K.G.; Fan, A.; Du-Thumm, L., Enhancement of Human Scent Detection through the use of Exhaustive Liquid Extraction Methods, 3rd Annual International Forensic Research Institute (IFRI) Symposium, Florida International University, Miami, Florida, April 30 - May 1, 2014.
589. Colón-Crespo, L.J.; Herrera-Hernández, D.; Holness, H.; Kabir, A.; Furton, K.G.; Fan, A.; Du-Thumm, L., Evaluation of Human Scent As Possible Classification Evidence, Graduate Student Appreciation Week's (GSAW) Scholarly Forum, Florida International University, Miami, Florida, March 31 - April 1, 2014.
590. Colón-Crespo, L.J.; Herrera-Hernández, D.; Holness, H.; Kabir, A.; Furton, K.G.; Fan, A.; Du-Thumm, L., Evaluation of Human Scent As Possible Classification Evidence, 66th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Seattle, WA, February 17-22, 2014.
591. Herrera-Hernández, D.; Colón-Crespo, L.J.; Holness, H.; Furton, K.G.; Fan, A.; Du-Thumm, L., Enhancement of Human Scent Detection through the use of Exhaustive Liquid Extraction Methods, 66th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Seattle, WA, February 17-22, 2014.
592. Colón-Crespo, L.J.; Brown, J.S.; Caraballo, N.I.; Furton, K.G., Advances in the Forensic Use of Human Scent, 2nd Annual International Forensic Research Institute (IFRI) Symposium, Florida International University, Miami, Florida, March 13-14, 2013.

593. Colón-Crespo, L.J.; Brown, J.S.; Caraballo, N.I.; Furton, K.G., Advances in the Forensic Use of Human Scent, 65th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Washington, D.C., February 18-23, 2013.
594. K.G. Furton, J. Greb, The Scientific Working Group on Dog and Orthogonal Detector Guidelines (SWGDOG), 66th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Seattle, WA, February 17-22, 2014.
595. V. Shellman, H. Holness, and K.G. Furton, An Assessment of Different Extraction Techniques for the Detection of Volatile Organic Compounds from Synthetic Cathinone Derivatives, 66th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Seattle, WA, February 17-22, 2014.
596. D. Herrera-Hernández, L.J. Colón-Crespo, H. Holness, K.G. Furton, A. Fan, .D. 2, and L. Du-Thumm, Enhancement of Human Scent Detection through the use of Exhaustive Liquid Extraction, Methods, 66th Annual Scientific Meeting of the Academy of Forensic Sciences (AAFS), Seattle, WA, February 17-22, 2014.
597. Kenneth G. Furton, Norma Iris Caraballo, Lauren Colon, Adhly Huertas, Michelle Cerreta, Rodolfo Messa and Abuzar Kabir, Development of new extraction and analysis methods for the rapid detection of characteristic chemicals from humans and contraband materials, Pittcon 2014, Chicago, Illinois, March 2-6, 2014.
598. Ekaterina Halivelakis, Michelle Cerreta, and Kenneth G. Furton, The Creation of Novel, Polymer-based Training Aids for Odor Dissipation Manipulation, Poster Presentation at the Florida Annual Meeting and Exposition, May 2014.
599. Michelle Cerreta and Kenneth G. Furton, An Assessment of Field Accuracy of detection Canines Using Flowers that produce the Same Odorant as Cocaine
Poster Presentation at the Florida Annual Meeting and Exposition, May 2014
600. Michelle Cerreta and Kenneth G. Furton, An Assessment of Field Accuracy of detection Canines Using Flowers that produce the Same Odorant as Cocaine
Poster Presentation at the Annual IFRI Forensic Science Symposium, May 2014
601. Kenneth G. Furton, Development of Novel Sampling and Detection Methods for Identifying Forensic Odorants Including the use of Dogs, Birds and Elephants, DHS Science and Technology Workshop, Raleigh North Carolina, July 29, 2014.
602. N. Fontanals, S. Lakade, A. Kabir, K.G. Furton, R.M. Marce, F. Borrull. Fabric Phase Sorptive Extraction: A New Direction in Enriching Polar Emerging Contaminants from Environmental Samples. 14th Instrumental Analysis Conference, Barcelona, Spain, October 1-3, 2014.
603. Kenneth G. Furton, Chemistry of Scent: Narcotics, Currency, Explosives and Persons, California Narcotics Canine Association, Burbank California, January 2015
604. Kenneth G. Furton, Advances in Analytical Chemistry Odor as Evidence, Royal Society of Chemistry Paradigm Shift in Forensic Science, UK February 2, 2015

605. Claudia L. Sanchez, BA*; Adhly M. Huertas, BSc; Paola A. Prada, PhD; Kenneth G. Furton, PhD , A Static Collection Approach for Target Explosive Analog Odors , Presented at the American Academy of Forensic Sciences, Orlando Florida, February 2015.
606. Adhly M. Huertas, , BSc*; Kenneth G. Furton, PhD Illicit Substance Volatile Organic Compounds (VOCs) Analysis for Canine Detection, Presented at the American Academy of Forensic Sciences, Orlando Florida, February 2015.
607. Abuzar Kabir, PhD; Rodolfo Mesa*; Kenneth G. Furton, PhD, Fabric Phase Sorptive Extraction Media: A Highly Effective Forensic Sample Collection and Storage Device, Presented at the American Academy of Forensic Sciences, Orlando Florida, February 2015.
608. Alison Simon*; Julian L. Mendel, MSc; Kenneth G. Furton, PhD; DeEtta Mills, PhD ,An Assessment of the Volatile Organic Compounds (VOCs) of an Agricultural Biothreat Agent, *Raffaella lauricola*, and Training Aids for Canine Detection, Presented at the American Academy of Forensic Sciences, Orlando Florida, February 2015.
609. Huertas, Adhly, B.Sc and Furton Kenneth G, Ph.D. Illicit Substance Volatile Organic Compounds (VOCs) Analysis for Canine Detection. AAFS 67th Annual Scientific Meeting, Hyatt Regency Orlando, Orlando, FL. February 19, 2015.
610. Claudia L. Sanchez, B.A, Adhly M. Huertas, B.Sc, Paola A. Prada, PhD, Kenneth G. Furton, PhD. A Static Collection Approach for Target Explosive Analog Odors. AAFS 67th Annual Scientific Meeting, Hyatt Regency Orlando, Orlando, FL. February 19, 2015.
611. Kenneth G. Furton, Lauren Colon, Vanquilla Shellman, Michelle Cerreta, Rodolfo Mesa and Abuzar Kabir, Development of Novel Forensic Sampling methods and Evaluation of Microextraction Data for the Identification and Classification of Forensic Specimens utilizing Gas Chromatography Mass Spectrometry, Presented by Howard Holness, Pittcon Conference and Exposition, New Orleans Louisiana, March 12, 2015.
612. Huertas, Adhly, B.Sc and Furton Kenneth G, Ph.D. Illicit Substance Volatile Organic Compounds (VOCs) Analysis for Canine Detection. GSAW Scholarly Forum, Florida International University, Miami, FL. April 6, 2015.
613. S. Montesdeoca-Esponda, R. Alonso-Guedes, Z. Sosa-Ferrera, A. Kabir, K.G. Furton, J.J. Santana-Rodriguez. Fabric Phase Sorptive Extraction (FPSE) followed by UHPLC for the Analysis of UV Stabilizers in Aqueous Samples from Gran Canaria Island (Spain). Society of Environmental Toxicology and Chemistry (SETAC) Europe 25th Annual Meeting, Barcelona, Spain, May 3-7, 2015.
614. Rodolfo Mesa, BSc, Abuzar Kabir, PhD, Kenneth G. Furton, PhD, Trace Analysis of Endocrine Disrupting Chemicals in Whole Milk using Fabric Phase Sorptive Extraction, 91st Florida Annual Meeting and Exposition (FAME 2015), (Florida ACS), Palm Harbor, May 7th-9th, 2015
615. Abuzar Kabir, Rodolfo Mesa, Rayma Blanco, Manuel A. Bode, Namita Khajanchi, Kenneth G. Furton, FABRIC PHASES: UNIQUE SORPTIVE EXTRACTION MEDIA WITH DIVERSIFIED APPLICATIONS, 91st Florida Annual Meeting and Exposition (FAME 2015), (Florida ACS), Palm Harbor, May 7th-9th, 2015

616. Abuzar Kabir, Rodolfo Mesa, Kenneth G. Furton, In Search of Advanced Materials for Sorptive Microextraction: A Facile SOL-GEL Synthesis Approach, 91st Florida Annual Meeting and Exposition (FAME 2015), (Florida ACS), Palm Harbor, May 7th-9th, 2015
617. Rayma Blanco, Manuel A. Bode, Namita Khajanchi, Rodolfo Mesa, Abuzar Kabir, Kenneth G. Furton, Fabric Phase Sorptive Extraction: A Novel Approach for Field Sampling and in Situ Sample Preparation, 91st Florida Annual Meeting and Exposition (FAME 2015), (Florida ACS), Palm Harbor, May 7th-9th, 2015
618. Massimo Del Bubba, Lorenzo Ciofi, Rayco Guedes-Alonso, Zoraida Sosa-Ferrera, José Juan Santana-Rodríguez, Abuzar Kabir, Kenneth G. Furton. Fabric Phase Sorptive Extraction (FPSE) Followed by UHPLC-MS/MS Analysis of Steroid Hormones in Biological and Environmental Samples. 21st International Symposium on Separation Science, Ljubljana, Slovenia, June 30-July 3, 2015.
619. R. Guedes-Alonso, L. Ciofi, M. Del Bubba, Z. Sosa-Ferrera, J.J. Santana-Rodríguez, A. Kabir, K.G. Furton. Determination of Steroid Hormones in Wastewaters by Using Fabric Phase Sorptive Extraction (FPSE) and Ultra-High Performance Liquid Chromatography Tandem Mass Spectrometry. 42nd International Symposium on High Performance Liquid Phase Separations and Related Techniques (HPLC 2015), Geneva, Switzerland, June 21-25, 2015.
620. Evans, J.R., Schreiber Compo, N., Carol, R., Pimentel, P., Pena, M., Hoogesteyn, K., Powell, M., Holness, H., Furton, K., & Rose, S. The effects of alcohol intoxication on metamemory. Paper to be presented to the biannual meeting of the Society for Applied Research in Memory and Cognition, Victoria, BC, in June 2015.
621. Kenneth G. Furton, Chemistry of Scent Narcotics, Currency, Explosives and Persons, California Narcotics Canine Association, San Diego, California, January 25, 2016
622. Kenneth G. Furton, Innovative Science — How Advances in Technology Transform Forensic Science, Invited speaker on Interdisciplinary Panel, AAFS 68th Annual Scientific Meeting, Las Vegas, NV. February 23, 2016.
623. Abuzar Kabir, Rodolfo Mesa, Rayma Blanco, Kenneth G Furton, A Green Sample Preparation Device for Complex Biological, Environmental, Food, Pharmaceutical and Toxicological Samples, (Presented by Abuzar Kabir) Pittcon Conference and Exposition, Atlanta Georgia, March 6, 2016
624. Abuzar Kabir, Rayma Blanco, Rodolfo Mesa and Kenneth G. Furton, Microextraction Capsules: Integration of Extraction Sorbent, Filtering Medium, and Stirring Mechanism into One. (Oral Presentation) International Forensic Research Institute Symposium, March 16, 2016, Miami, FL.
625. Schreiber Compo, N., Carol, R., Hoogesteyn, K., Evans, J.R., Holness, H., Furton, K. and Rose, S., Alcohol and witness memory, (Oral Presentation) International Forensic Research Institute Symposium, March 16, 2016, Miami, FL.
626. Abuzar Kabir, Rayma Blanco, Rodolfo Mesa and Kenneth G. Furton, Microextraction Capsules: Integration of Extraction Sorbent, Filtering Medium, and Stirring Mechanism into One, (Poster Presentation) International Forensic Research Institute Symposium, March 16, 2016, Miami, FL.

627. Rodolfo Mesa, BSc, Abuzar Kabir and Kenneth G. Furton, Direct Ultra-Trace Analysis of 5 Estrogenic Endocrine Disruptors and Bisphenol A from Whole Milk with Fabric Phase Sorptive Extraction, (Poster Presentation) International Forensic Research Institute Symposium, March 16, 2016, Miami, FL
628. Rayma Blanco, Rodolfo Mesa, Abuzar Kabir and Kenneth G. Furton, Fabric Phase Sorptive Extraction: An Indispensable Tool for Food Forensics, (Poster Presentation) International Forensic Research Institute Symposium, March 16, 2016, Miami, FL
629. Alison G. Simon, Julian Mendel, Kenneth G. Furton, and DeEtta Mills, CHEMICAL AND CANINE ANALYSIS AS COMPLIMENTARY TECHNIQUES FOR THE IDENTIFICATION OF ACTIVE ODORS IN AN INVASIVE PATHOGEN, RAFFAELEA LAURICOLA, National Conference on Ecosystem Restoration, April 18, 2016, Coral Springs, FL
630. K.G. Furton keynote address Integration of Colleges - Blurring the Lines of Education: Misfortune or Opportunity? Presented at the 15th Annual South Florida Education Research Conference June 4, 2016, Florida International University, BBC
631. A. Simon, D. Mills, K. Furton, Volatile Organic Compounds (VOCs) of an Invasive Fungus to the United States, Raffaelea lauricola, and Possible Effects on Commercial Avocado Groves, 18th International Symposium on Advances in Extraction Technologies & 22nd International Symposium on International Sciences Torun, Poland July 3-6, 2016 (Poster)
632. A. Simon, D. Mills, K. Furton, Chemical and Canine Analysis as Complimentary Techniques for the Identification of Active Odors in an Invasive Species in the USA, 18th International Symposium on Advances in Extraction Technologies & 22nd International Symposium on International Sciences Torun, Poland July 3-6, 2016 (Keynote Lecture)
633. K.G. Furton, Without a trace: Advances in forensic science detection and identification, Invited presentation at the Qindao Agricultural University China, September 18, 2016
634. H. K. Holness, L. J. Colon-Crespo, A. Huertas, V. Shellman, R. Mesa, A. Kabir and K. G. Furton, Pioneering uses of headspace analysis for the rapid identification of objects of forensic interest in the field, Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) - SciX Minneapolis, September 21, 2016
635. Kenneth G. Furton, The Chemistry of Forensics, Miami Dade College, Wolfson Campus, October 12, 2016.
636. Vanquilla L. Shellman, and Kenneth G. Furton, Optimal Headspace Extraction for the Detection of Volatile Organic Compounds (VOCs) Released From Synthetic Cathinones Using Solid-Phase Microextraction (SPME) for Field Application, AAFS February 2017, New Orleans
637. Alison Simon and Kenneth G. Furton, Greenhouse Evaluations of Volatile Plant Defense Against an Invasive Agricultural and Environmental Biothreat Agent, Raffaelea lauricola, and Possible Implications for Canine Detection, AAFS February 2017, New Orleans, LA
638. Alison Simon, and Kenneth G. Furton, Characterization of Controlled Odor Mimic Permeation Systems (COMPS) Containing Live Training Aids for Utilization by Detection Canines, AAFS February 2017, New Orleans

639. Kenneth G. Furton, Howard K. Holness, Alison Simon, Adhly Huertas, Vanquilla Shellman, Rodolfo Mesa, Abuzar Kabir, Discriminating Power of Volatiles from Forensic Specimens in the Field Using Innovative Sampling and Analysis, Pittcon 2017, Chicago, IL.
640. Vanquilla Shellman, Alison G. Simon, Alice Boone, Kenneth G. Furton, The Development and Understanding of Efficient Mimic Devices for Calibrating and Training Detection Canines for Forensic, Environmental, and Medical Use, International Working Dog Conference, April 2017, Banff Alberta Canada (Oral Presentation)
641. Alison G. Simon, DeEtta Mills, Kenneth G. Furton, Chemical and Canine Analysis as Complimentary Techniques for the Identification of Active Odors in an Invasive Agricultural Pest, International Working Dog Conference, April 2017, Banff Alberta Canada (Oral Presentation)
642. Alice B. Boone, Vanquilla Shellman, Alison G. Simon, Lauryn Degreeff, Kimberly Peranich, Howard K. Holness and Kenneth G. Furton, Utilization of Controlled Odor Mimic Devices to Improve law Enforcement Canine Training, International Working Dog Conference, April 2017, Banff Alberta Canada (Poster Presentation)
643. Lorenzo Ramirez, Alyssa Worrell, Collen Nelson¹, Spiro Kokolis, Tessa Seales, Bridget Stewart, Vanquilla Sherman, Philip Davis, Howard Holness, Kenneth Furton, Cynthia M. Otto, The Use of the Universal Detection Calibrant as a Scent Detection Training Tool, International Working Dog Conference, April 2017, Banff Alberta Canada (Poster Presentation)
644. Simon, A.; DeGreeff, L.; Peranich, K.; Furton, K. Evaluation of generalization – discrimination balance for detection canines, International Defence & Security Canine Conference, July 2017, Cirencester, UK (Oral Presentation).
645. Alice B. Boone, Howard Holness, Kenneth G. Furton, The Enhancement of Human Scent Profiles as Forensic Evidence, Presented at the American Academy of Forensic Sciences, Seattle Washington, February 2018
646. Chantrell Frazier, DeEtta K. Mills, Kenneth G. Furton, Advanced Human Scent Identification: A cross-disciplinary study using SPME-GC/MS VOC analysis and Next Generation DNA sequencing techniques for increasing the probative value of human scent evidence, Presented at the American Academy of Forensic Sciences, Seattle Washington, February 2018, IUCRC special session
647. Kelvin J. Frank, Jr, and Kenneth G. Furton, Optimal Headspace Extraction for the Detection of Volatile Organic Compounds (VOCs) Released From Triacetone Triperoxide (TATP) Using Solid-Phase Microextraction (SPME), Presented at the American Academy of Forensic Sciences, Seattle Washington, February 2018
648. Kenneth G. Furton, Culture Shift when online becomes the largest campus, March 8, 2018, Tel Aviv University (Keynote address)
649. Kenneth G. Furton, 4IRU – The Next Generation Global Social Innovation University, IC3 Presidential Forum, August 28th, 2018, New Delhi India, (Keynote address)

650. Chantrell Frazier, DeEtta Kay Mills, and Kenneth G. Furton, Human Scent Forensics: A cross-disciplinary study using SPME-GC/MS VOC analyses and Next Generation DNA sequencing. Presented at SCIX 2018, Atlanta Georgia, October 2018: [Awarded 2nd place for best student poster by the Federation of Analytical Chemistry and Spectroscopy Society (FACSS)]
651. Chantrell Frazier, DeEtta Kay Mills and Dr. Kenneth G. Furton, Human Scent Forensics: A cross-disciplinary study using SPME-GC/MS VOC Analyses and Length Heterogeneity PCR, Presented at the Florida International University Biosymposium, February 2, 2019 (Awarded 1st Place for Best Poster)
652. Isis Artze-Vega, Kenneth Furton & Meredith Newman, Faculty Co-Led, University-wide Redesign of Teaching Evaluation presented at the 2019 Academic Affairs Winter Meeting, February 8, 2019, Amelia Island, Florida
653. Kelvin Frank, Rodolfo Mesa and Kenneth G. Furton, The Determination of a Canine Olfactory Detection Threshold Using a Universal Detection Calibrant (UDC), presented at the 71st American Academy of Forensic Sciences (AAFS) 2019 conference, February 21, 2019, Baltimore, Maryland
654. Chantrell Frazier, DeEtta Kay Mills and Kenneth G. Furton Human Scent Forensics: A Cross-Disciplinary Study Using HS-SPME-GCMS VOC Analyses and Length Heterogeneity PCR, presented at the Pittcon 2019 conference, March 19, 2019 in Philadelphia, Pennsylvania
655. Alice Boone, Howard Holness and Kenneth G Furton, The Enhancement of Human Scent Profiles as Forensic Evidence, presented at the Pittcon 2019 conference, March 19, 2019 in Philadelphia, Pennsylvania
656. Kenneth G. Furton, The Next Gen Global Innovation University, Cargo Network Services (CNS) Partnership Conference, Miami Florida, May 6, 2019
657. Yeilin Caballero, Rodolfo Mesa, Kenneth G. Furton, HS-SPME-GC-MS COMPARISON OF VOLATILE ORGANIC COMPOUNDS OF HEALTHY VS RAFFAELEA LAURICOLA INFECTED AVOCADO TREES FOR ADVANCED CANINE RECOGNITION TRAINING, presented at the 95th Florida Annual Meeting and Exposition (FAME) conference, May 8, 2019
658. Kelvin Frank, Alison G Simon, Kimberly Peranich, Howard Holness, Kenneth Furton, Lauryn DeGreeff, A method for controlled odor delivery in canine olfactory testing, presented at the 11th International Working Dog Conference, September 3, 2019 in Stockholm, Sweden
659. Kenneth G. Furton, Transforming student success through global engagement and innovative learning platforms, Invited Keynote speaker at annual meeting of the China Association of Higher Education, Lanzhou, China, October 11-13, 2019
660. Alice B. Boone, Kenneth G. Furton, Howard K. Holness, The Enhancement of Human Scent Profiles as Forensic Evidence, presented at the 72nd American Academy of Forensic Sciences (AAFS) 2020 conference, February 19, 2020, Anaheim California
661. Chantrell Frazier, Kenneth G. Furton, DeEtta Mills, PhD, Forensic Identification: An Investigation to Corroborate Volatile and Biological Profiles for Subject Identification, presented at the 72nd American Academy of Forensic Sciences (AAFS) 2020 conference, February 19, 2020, Anaheim California

662. Leann Forte, Kenneth G. Furton, Optimal Extraction of Fentanyl Volatile Organic Compounds (VOCs) for the Development of Canine Training Aid Mimics, presented at the 72nd American Academy of Forensic Sciences (AAFS) 2020 conference, February 19, 2020, Anaheim California
663. Kelvin J. Frank, Jr., Kenneth G. Furton, The Detection of Volatile Organic Compounds (VOCs) Released From Mass Storage Devices Utilizing Headspace/Solid-Phase Microextraction (HS/SPME) and Its Implications for Canine Training and Contraband Detection, presented at the 72nd American Academy of Forensic Sciences (AAFS) 2020 conference, February 19, 2020, Anaheim California
664. Vidia A. Gokool, Howard K. Holness, Kenneth G. Furton, Human Scent Biometrics: Paving a Path Toward Improved Data Analysis, presented at the 72nd American Academy of Forensic Sciences (AAFS) 2020 conference, February 21, 2020, Anaheim California
665. Kenneth G. Furton, Changemaking in times of crisis: How can higher education become more resilient, impactful, and innovative?, Times Higher Education Education World Academic Summit Panelist - August 27, 2020, Virtual Conference
666. Kenneth G. Furton, Repopulating Campus: Protecting the Safety and Health of Students Around the Globe in the Age of Pandemics with Smart Dashboards, Hc1 Precision Medicine presentation, November 2, 2020, Virtual Conference
667. Lauryn Degreeff, Stephanie Vaughan, Leann Forte, Howard K. Holness, Kenneth G. Furton, A Characterization of the Vapor Profiles of Fentanyl and Synthetic Opioids for Instrumental and Canine Detection, presented at the 73rd American Academy of Forensic Sciences (AAFS) 2021 conference, February 17, 2021, Virtual Conference
668. Leann Forte, Kenneth G. Furton, Lauryn Degreeff, The Effects of Degradative Stress on Vapor Analysis of Fentanyl, presented at the 73rd American Academy of Forensic Sciences (AAFS) 2021 conference, February 18, 2021, Virtual Conference
669. Janet M. Crespo Cajigas, Christopher J. Katilie, Abuzar Kabir, Lauryn Degreeff, Kenneth G. Furton, A Vapochromic Colorimetric Sensor for the Cross-Contamination of Volatile organic Compounds (VOCs), presented at the 73rd American Academy of Forensic Sciences (AAFS) 2021 conference, February 18, 2021, Virtual Conference

EXTERNAL RESEARCH GRANTS/CONTRACTS FUNDED

Below are the external contracts and grants providing continuous funding for Dr. Furton's independent research program and collaborative projects since 1990 (\$13+ million total).

1. NSF Proposal "Acquisition of a Heat Flux Calorimeter" co-P.I. with M. Quirke, S. Winkle, and R. Lopez de la Vega(P.I.), \$48,486.00 (funded May 2, 1990).
2. ACS-PRF Type G Proposal "Thermodynamics of Molecular Association at Finite Concentrations in Liquid Organic Salts Studied by Gas-Liquid Chromatography", \$18,000.00 (funded May 31, 1990). August 1990-August 1993.
3. NSF Proposal "Speciation of Hydrophobic Organic Compounds in Sediments and Soils", co-P.I.

with R. Jaffe (P.I.) and H. Fuentes, \$382,000, (Funded, September 8, 1994-December 1997).

4. Metro-Dade Police Law Enforcement Trust Fund proposal "Facilitation and Study of Training and Testing for Drug Detector Dogs", Submitted November 13, 1995. Sole P.I. \$142,958. (Funded April 1996 - December 1997).
5. NSF Travel Grant to present paper at the Third International Conference on Forensic Statistics entitled "Statistical Significance of Cocaine Contamination on U.S. and Canadian Currency and Correlation to Detector Dog Alerts to Suspected Drug Money", Edinburgh, Scotland, June 30-July 3, 1996. \$1000 (Funded May 1996).
6. NIJ Proposal "Discrimination of Forensic Glasses via Trace Element Analysis by Inductively Coupled Plasma Mass Spectrometry", co-P.I. with D.C. Duckworth & C.K. Bayne - Oak Ridge National Lab, S.A. McKenney - CASTLE, J. Almirall - Metro-Dade Police Crime Lab, R. Davis - Tennessee Bureau of Investigation and R.D. Koons Forensic Science Research Unit, FBI Laboratory , Submitted November 1996 for \$450,000. (\$150,000 Funded November 1997, 9,630 for FIU - 12/1/98).
7. Metro-Dade Police Law Enforcement Trust Fund proposal "Facilitation and Continuation Study of Training and Testing for Drug Detecting Dogs: Analysis of Drug Odor Signatures on Forfeiture Money and Correlation to Drug Dog Alerts", Submitted April 1997. Sole P.I. \$118,418/2 years. Funded (59,209/yr) January 1998 – July 2000 (6 mo. no-cost extension).
8. Sigma/Aldrich/Supelco Proposal "Development of SPME for Arson and Explosive Analysis". \$10,000 funded February 1998. P.I. with J. Almirall.
9. DOE-NIJ Proposal "ICP-MS Analysis of Forensic Glasses and Database Development" Co-P.I with Jose Almirall (P.I.), D.C. Duckworth & C.K. Bayne - Oak Ridge National Lab, S.A. McKenney – CASTLE, R. Davis - Tennessee Bureau of Investigation and R.D. Koons Forensic Science Research Unit, FBI Laboratory , Submitted January 1999. \$151, 000 funded in 1999 (\$77,738 for FIU).
10. Sigma/Aldrich/Supelco Proposal "Continued Development of SPME for Arson and Explosive Analysis". \$10,000 funded February 1999 (co-P.I. with J. Almirall).
11. DOD/TSWG Proposal "Discrimination of Forensic Glasses Via Trace Element Analysis by ICP-MS" Co-P.I with Jose Almirall (P.I.), D.C. Duckworth & C.K. Bayne - Oak Ridge National Lab, S.A. McKenney – CASTLE, R. Davis - Tennessee Bureau of Investigation and R.D. Koons Forensic Science Research Unit, FBI Laboratory , Submitted December 1999. \$312,944 funded for September 2000 (\$135,000 for FIU).
12. NSF Florida Collaborative for Excellence in Teacher Preparation (FCETP) Proposal "Forensic Chemistry for Secondary School Educators", co-P.I. with J.R. Almirall (P.I.), \$15,765 funded April 2000 (\$6000 direct costs to FIU).
13. Sigma/Aldrich/Supelco Proposal "Development of SPME for Arson and Explosive Analysis". \$10,000 funded for 2000 (co-P.I. with J. Almirall).
14. Florida Department of Law Enforcement proposal "Improved Statewide Detector Dog Training and Certification Program" P.I. with J.R Almirall (co-P.I.) for \$350,000. Submitted October 1999. (\$50,000 funded July 2000 – July 2001).

15. Sigma/Aldrich/Supelco Proposal "Development of SPME for Arson and Explosive Analysis" for \$10,000. (co-P.I. with J. Almirall).
16. Trace Evidence Proficiency Testing Program (Glass, Paint, Fiber and Ignitable Liquid Residue Tests) to Crime Labs (co-P.I. with Jose Almirall (P.I.) \$36,600 in 2001/2002.
17. Technical Support Working Group of the Department of Defense, U.S. Government. Second year of competitive grant entitled: "Discrimination of Forensic Glasses by ICP-MS" (co-PI w/Almirall Total: \$ 254,912. (2000-2002)
18. Quality Forensics, Inc. competitive based grant for the design, development and manufacture of Trace Evidence Proficiency Tests in trace evidence (co-PI w/Almirall), \$ 55,000. was awarded Sept. 2002 – August 2003
19. Instrument grant from GE Iontrack for Ion Mobility Spectrometer, \$ 49,000, (PI w/Almirall), August 2003.
20. National Institute of Justice (NIJ)/National Forensic Science Technology Center (NFSTC) Proposal "Development and Implementation of Best Practice Procedures for Detector Dog Teams Through Scientific Based Validation" (PI) Funded January 1, 2003 – August 2005, \$506,938 with matching (\$350,000 direct to FIU).
21. Netherlands National Police Proposal "Deployment of Human Scent Research" (PI with J. Almirall) Funded August, 2004 – August, 2005; \$48,405.
22. Netherlands National Police Proposal "Deployment of Human Scent Research" (P.I. with AM Curran) Funded August 15, 2005 – August 14, 2006; \$60,627.
23. DoD / Technical Support Working Group (interagency and international R&D for combating terrorism) proposal "Optimization of Sorbent Materials for the Collection and Analysis of Human Scent" (P.I. with AM Curran) March 2006 – August 2008; \$454,405 Funded.
24. Netherlands National Police Proposal "Continuation of Deployment of Human Scent Research" (PI with AM Curran) Approved for funding August 15, 2006 – February 14, 2008; \$60,000. Funded.
25. National Institute of Justice (NIJ) proposal "The Scientific Working Group on Dog and Orthogonal Detector Guidelines" (PI). Approved for funding July 30, 2005 – October 31, 2008, 2008; \$285,152. Funded.
26. University of Central Florida FUNSAT IV satellite design competition "Using the Iridium Network for Amateur Satellite Communication" Faculty advisor for Christian J. Rodriguez (P.I.). Submitted September 13, 2007. Selected for presentation at the NASA's 50th Anniversary conference held on April 17th in Miami. \$2,750.00 awarded March 13, 2008 – August 15, 2009, Funded.
27. DoD / Technical Support Working Group (interagency and international R&D for combating terrorism) proposal "Optimization of Sorbent Materials for the Collection and Analysis of Human Scent" (P.I. with AM Curran) August 2008 – December 2009; \$225,130 Funded.
28. National Institute of Justice (NIJ) proposal "The Scientific Working Group on Dog and Orthogonal

- Detector Guidelines” (PI). Approved for funding November 1, 2008 – January 30, 2009; \$82,359 Funded.
29. National Institute of Justice (NIJ) proposal “Field Detection of Drug and Explosive Odor Signatures Using SPME-IMS” (Co-PI with J.R. Almirall). Funded October 30, 2006 – September 30, 2010; \$480,881. Funded.
 30. DoD / Technical Support Working Group (PI). Supplemental funding for Task 13 -Instrumental Evaluation of the Operational Parameters of the HSCS for the Collection of Volatile Profiles for \$111,659, Task 14 Canine Evaluation of HSCS for \$46,441, and Task 15 SIJI.GCOG Guidelines and Implementation via and International Accreditation Commission on Detector Dogs for \$154,425. Total of new contract \$312, 525 from December 16, 2009 – June 30, 2011.
 31. Federal Bureau of Investigation Biometric Center of Excellence (BCOE), “Epithelial Cell Presence in Human Scent Evidence”, Approved for funding September 1, 2009 – January 30, 2011, \$211,255 (PI). Collaborative project with West Virginia University. Total project cost approved \$500,000.
 32. National Institute of Justice (NIJ)/National Forensic Science Technology Center (NFSTC) Proposal “Validation and Implementation of Canine Training Aids Using COMPS” (PI) Funded 07/29/11 – 11/30/11, \$64,786.
 33. National Institute of Science and Technology, “Design and Development of Scientifically Validated Non-Hazardous Canine Training Materials” (PI), Approved for funding December 30, 2009 – December 30, 2012, \$200,898.
 34. Howard Hughes Medical Institute, “FIU Science Collaborative (FSC)” (Co-PI with Laird Kramer as PI), Approved for funding 4/15/2010-4/15/2014, \$1,000,000.
 35. Central Intelligence Agency, “Testing the Ability of Birds to Detect Explosive Odorants: Comparisons with Canine Abilities and Instruments” (PI), Approved for funding July 12, 2010 – July 11, 2012, \$238,914.
 36. Department of Education, “Opening the Gateway: The High Tech High Touch Initiative” (PI) 10/1/2010-02/29/2016, \$2,447,448.
 37. Federal Bureau of Investigation Biometric Center of Excellence (BCOE), “The Development of a Novel Method of Cell Extraction Using Pressure Cycling Technology for Samples Collected with the STU-100 with Respect to its Usefulness for Low Copy Template DNA Samples”, Approved for funding May 13, 2011 – April 12, 2012, 2010, \$207,852. (co-PI with D. Mills as PI). Collaborative project with West Virginia University.
 38. TSWG (DoD), “Evaluation of the Scent Collection System (SNT SKR2000) for Use in Canine Training”, \$411,030.84, 5/30/12-1/30/14.
 39. Colgate-Palmolive, “Determining the Human Scent Profile from Axillary and Hand Odor from Different Target Populations”, \$222,000, 04/10/12 – 04/09/15.
 40. Canine Assistance, “Identification of Epileptic Seizure Specific Chemical Biomarkers”, \$100,002.52, 01/2013-01/2014.
 41. FLIR “Evaluation of the Griffin 844 and FidoX”, \$22,000, 09/8/2014 – 04/30/2015

42. Colgate-Palmolive, "Analysis of Odor Samples", \$11,000, 10/01/2015 – 12/31/2015
43. APLU, "University Transformation through Teaching (UT3) Phase II" \$640,000, 10/16/2015 – 6/30/2020
44. NSF, "Advance Institutional Transformation at Florida International University" \$3,202,167, 09/15/2016 – 08/31/2021
45. Colgate Palmolive, "Phase 2 Hispanic Study" \$56,800, 10/01/2016 – 06/30/2017
46. Office of Naval Research, "Exploring the Effects of the Generalization-Discrimination Balance and Odor Availability in Odor Detection Canines" \$210,419.26, 09/01/2016 - 12/31/2018
47. NSF, Industry–University Cooperative Research Centers, Center for Advanced Research in Forensic Science, "Human Scent Forensics: A cross-disciplinary study using SPME-GC/MS VOC analyses and Next Generation DNA sequencing techniques for increasing the probative value of human scent forensics" \$25,000, 10/17/2017 – 12/31/2018
48. NSF, Industry–University Cooperative Research Centers, Center for Advanced Research in Forensic Science, "Continued Advanced Human Scent Identification: A cross-disciplinary study using SPME-GC/MS VOC analyses and Next Generation DNA sequencing techniques for increasing the probative value of human scent evidences" \$24,960, 10/29/2019 – 12/20/2022
49. Non-Contact Detection of Fentanyl and Other Synthetic Opioids, (subcontract) National Institute of Justice, \$107,368, 09/01/2019 – 08/30/2021
50. Microbiome-based vector control (subcontract), Ginkgo Bioworks Inc, \$79,076, 9/16/2020 – 3/16/2022
51. Analysis of T-Shirts - "Effective, Reagent-free Detection of the Odor Signature of Covid-19 Infection Using a Nano-Enabled Sensor Array" (subcontract), National Institute of Health, \$239,937.75, 12/20/2020 – 11/31/2022

EXPERT WITNESS SERVICE

Below are cases in which Dr. Kenneth G. Furton has been retained as an expert including testimony for the prosecution (TP) and the defense (TD):

1. 1/25/96 retained by USAO Southern District of Florida. Case of U.S. \$500,000 95-1322-CIV-UUB. Deposition of Dr. Furton taken on 1/29/96. Settled in 1996. (TP1)
2. 9/19/96 retained by Metro-Dade Police Department Legal Bureau. Affidavit submitted in State v. \$104,000.00, case no. 28405-S.
3. 6/23/97 retained by USAO Southern District of Florida in Case. No. 97-0073-CIV-SH US v. \$201,700.00 in U.S. Currency. Testified in a probable cause hearing on 12/2/97 and in trial on 12/4/97. (TP2)
4. 7/18/97 retained by USAO Eastern District of New York; Case of United States v. \$64,980 Civil No. 96/4883 (Block, J.) (EDNY). Affidavit submitted.

5. 2/3/1998 retained by USAO, San Diego, United States v. \$13,980 in US Currency, Case # 97CV1097-J (POR). Affidavit submitted.
6. 4/15/1998 retained by USAO and testified at grand jury regarding the reliability of narcotics detection canines in USAO#1998R000623, Key West, Florida. (TP3)
7. 8/19/1998 retained by USAO, Phoenix, AZ for U.S. v. \$22,474 U.S. Currency (CIV-98-0525-PHX-EHC). Affidavit submitted.
8. 4/1/1998 retained USAO, Buffalo, NY, U.S. v. \$94,010.00 in U.S. Currency; affidavit submitted,
9. 10/26/99 retained by District Attorneys Office, Oakland County, Pontiac, Michigan, People v. Joseph Puertas, case no. CR 98-157485-FH. Testified in trial. (TP4)
10. 3/3/99 retained by USAO, Atlanta, GA., U.S. v. \$279,040.00 in U.S. Currency, case no. 4:98-CV-0182-HIM. Affidavit submitted.
11. 3/31/9999 retained by USAO, Albuquerque, NM, U.S. v. \$180,770, Civ. No. 98-1103. Affidavit submitted.
12. 9/30/99 retained by USAO, Southern District of Florida, Miami, FL , U.S. v. \$70,000 in US Currency, Case No. 98-2378-Civ-Gold/Simonton. Report and affidavit submitted.
13. 5/10/1999 retained by USAO, Southern District of Florida in U.S.A. v. Manny Varas, case no. 98-282-CR-SEITZ regarding the reliability of explosives detection canines. Testified in trial. (TP5)
14. 9/11/2000 retained by U.S. Attorneys Office; District of New Jersey; United States v. \$200,000 in US Currency, Case Civ. No. 99-4561(HAA); Submitted affidavit.
15. 9/15/2000. Retained by Public Defender's Office, 11th Judicial Circuit of Florida, Miami, Florida in Case Number 118242X. Testified regarding the calculating of percent blood alcohol from breath alcohol measurements. (TD1)
16. 5/10/2000 retained by Public Defender's office, 11th Judicial Circuit of Florida, Miami, Florida in Case Number 119558F. Testified regarding the calculating of percent blood alcohol from breath alcohol measurements. (TD2)
17. 5/10/2000 retained by Public Defender's office, 11th Judicial Circuit of Florida, Miami, Florida in Case Number 318189W. Testified regarding the calculating of percent blood alcohol from breath alcohol measurements. (TD3)
18. 2/9/2002 retained by defense Attorney Woodard, Coconut Grove, FL in State v. Juan Estremera: F00-40592; MDPD # 2000 0690098CX. Analyzed and submitted report regarding suspected MDMA tablets.
19. 2/19/2002; Retained by Office of the Attorney General, Appellate Section; Ft. Lauderdale, Re: \$21,495.00 U.S. currency seizure (Case # 02-44-00351-24). Affidavit given.

20. 9/15/2000; Retained by Law Offices of Richard Ware Levitt; New York, NY; Case EDNY 96-CR329. Testified regarding a DEA agent field testing a suspected heroin sample. (TD4)
21. 5/11/2000 retained by Broward County Office of the Public Defender, Ft. Lauderdale, FL; State of Florida vs. Joe F. Smith. Case Number 99-018558-CF10A. Gave affidavit regarding the reliability of the Ionscan 400 for the identification of controlled substances including false positives. (TD5)
22. 7/15/1999 retained by Defense Attorney in Bartow, Florida; Case CF98-04028A-XX (Polk County); Produced report of testing and weighing of alleged cocaine.
23. 7/14/2000 retained by the Dade County Public Defenders Office. Testified that urine drug screen produced before trial was only presumptive of THC and GC/MS is required. Recently run GC/MS produced by county lab at trial. (TD6)
24. 7/25/2000 Retained by Defense office Andrew F. Rier Esq.; Rier & Doherty; Miami, Florida; Produced drug analysis report of suspected cocaine sample from case# 86441512710 12/01/86.
25. 1/29/2001 retained by defense attorney in Bartow, Florida 33830; State v. Michael Martel: CF99-06363A-XX (Polk County); Produced report of testing and weighing of alleged methamphetamine.
26. 8/28/2001 retained by Office of the Attorney General, Appellate Section; Ft. Lauderdale, Florida, Palm Beach Circuit Court CL-01-02274-AO; \$44,930 in U.S. Currency a 1989 Buick. Affidavit given.
27. 6/27/2003 retained by USAO in the case of US vs. \$90,150.00. Review of records and submitted affidavit.
28. 8/25/2003 retained by Office of the Public Defender; Eleventh Judicial Circuit of Florida; Miami, Florida; State v. Timothy Lively: Case # P02010821; reweighing of MDMA evidence and generation of report.
29. 9/10/2004 retained by County of Los Angeles District Attorney office in the case of State v. Benigno Salcido. Testified in a Kelly-Frye hearing regarding the admissibility of human scent evidence in case number GA052057. (TP6)
30. 9/17/2004 retained by USAO Southern District of Florida in the case of US vs. \$467,250. Reviewing records of drug dog alert in forfeiture proceeding.
31. 9/20/2004 retained by Defense attorney Keating in DEA vs. Lemus. Reviewing records of a DEA agent field testing a suspected heroin sample.
32. 3/9/2005 retained by USAO in the case of US vs. \$30,350.00. Reviewed records and submitted affidavit.
33. 4/5/2005 retained by USAO Southern District of Florida in case of US vs. \$99,960 and \$40,060. Testified in trial on 6/28/2005. (TP7)
34. 6/1/2005 retained by USAO in the case of U.S. vs \$1,199,500 (USDC Cr. No. 05-243). Review of records and preparation of affidavit.
35. 6/2/2005 retained by USAO in the case of US v. Hyunh involving the forfeiture of \$28,880.

Reviewed records and prepared affidavit.

36. 7/13/2005 retained by USAO in the case of U.S. vs. Castanon. Review of record and preparation of affidavit in \$2.3M forfeiture.
37. 8/2/2005 retained by USAO (Lornette Reynolds) in the case of U.S. v. Mario Mello, et. al. / U.S. v. \$199,120. Review of records of drug dog alert.
38. 11/8/2005 retained by defense attorney Richard J. Diaz in the case of Forfeiture of \$249,058 in U.S. Currency (Case No. 04-18006 CA 09/Carlos Zapada).
39. 11/21/2005 retained by State Attorneys office (Mathew Klecka) in the case of State v. Victor Robles (Case No. F03-000918 / Seizure of \$1,167,780). Testified in trial on 12/9/2005. (TP8)
40. 5/1/2006 retained by USAO in the case of U.S. v. \$148,840. (USDC Cr. 05-1263 MV/JDS).
41. 7/17/2006 retained by USAO in the case of U.S. v \$23,400 in U.S. Currency (USDC, Ashville 1:05cv310). Reviewed records and prepared affidavit. Testified on 1/16/2007 (TP9).
42. 8/17/2006 retained by USAO in the case of U.S. v. \$155,895 in U.S. Currency. Reviewed records and prepared affidavit. Case settled on 9/3/2006.
43. 8/22/2006 retained by Defense attorney Jonathan Drucker in the case of State v. Juan Carlos Merceles.
44. 8/22/2006 retained by USAO in the case of U.S. v. \$871,400 in U.S. Currency (Steven Tan 1:05CV919).
45. 2/2/2007 retained by USAO in the case of U.S. v. \$99,480.00 in U.S. Currency (Barbara Papademetriou 06-22966-Civ-King).
46. 1/7/2008 retained by USAO in the case of U.S. v. \$236,590 in U.S. Currency (Stephen R. Kotz) CV 07-375 LH/RHS.
47. 7/2/2008 retained by S. Abramowitz in the Family Court case regarding the reliability of testing for drugs in hair related to custody for J.E. Kenyon. Testified for defense on July 21, 2008 (TD7).
48. 9/12/2008 retained by USAO in the case of U.S. v. Wade (District of Alaska) regarding the reliability of human scent trailing canines. Testified in probable cause hearing regarding the reliability of human scent trailing canines on 12/10/2008 (TP10)
49. 11/21/2008 retained by defense attorney Jose Baez in the case of the State of Florida v. Casey Marie Anthony (Case No.: 48-2008-CF-0015606-O). Testified in deposition on 2/19/2011. Testified in admissibility hearing on 4/1/2011 (TD8). Testified in trial on 6/27/2011. (TD9).
50. 12/30/2008 retained by Merchant & Gould in class action law suit against the makers and retailers of Scent Lok clothing products.
51. 2/5/2009 retained by USAO in the case of U.S. v. \$145,845.00 in U.S. Currency (District of New Mexico, USDC Cr. No.: 08-703 MCA/ACT).

52. 4/7/2009 retained by USAO in the case of U.S. v. Vo, et. al. (Southern District of Texas, Houston Division, Cause No. 4:07cr388).
53. 4/9/2009 retained by District Attorney Scott Perrilloux in the case of U.S. v. \$19,960.00 in U.S. Currency. Telephone deposition on 4/14/2009. (TP11)
54. 4/24/2009 retained by Lubrani & Smith in the case of Espalin v. City of Riverside (CV08-06376 PSG [PLAx]). Affidavit submitted.
55. 12/30/2009 retained by Fort Bend County Texas District Attorney's Office (Amanda Bolin, Asst. District Attorney) in the case of State of Texas v. Rodolfo Dominguez, Cause # 49886, Capital Murder. Testified in hearing on 4/29/10.
56. 1/8/2010. Retained by Los Angeles District Attorney's Office (Martin J. Bean, Deputy District Attorney) in the case number GA069722. Testified on 1/11/2010 and 1/14/2010. (TP12).
57. 1/27/2010. Court ordered for appointment as an expert by Salvador Salgado, Deputy Public Defender, County of Los Angeles in the case of People of CA v. Johnny Bruister. Telephone testimony on 2/1/2010. (TD10)
58. 6/3/2010. Retained by Fort Bend County as an expert witness by Asst. County Attorney Randall Morse in the case of Buchanek vs. City of Victoria, et. al. (Deputy Keith Pikett).
59. 6/29/2010. Retained by USAO, Patricia Kenney, in the case of U.S. v. \$49,790.00 in U.S. Currency (08-CV-1654 – N.D. Cal.).
60. 7/27/2010. Retained by USAO/WDNY, Grace Carducci, in the case of U.S. v. \$60,020 in U.S. Currency (08-CV-6286 L). Testified on 10/12/2010 (TP13).
61. 8/2/2010. Retained by USAO, Daren Grove, in case of U.S. v. \$181,870 (10-20751-Civ-AJ).
62. 11/17/2010. Retained by USAO/DWNY in the case of US v. Omari A. Graham (08-CR-6259(L). Testified on 11/30/2010 (TP14).
63. 1/12/11. Retained by USAO-EDPA, Joseph Minni, in the case of US v. \$39,785 USC (10-CV-1892), testified in jury trial on May 10, 2011 (TP15).
64. 1/25/11. Retained by LA County Public Defender Office, Elizabeth Lashley-Haynes in the Case# GA067142, Thomas Mitchell involving a K9 scent identification lineup.
65. 3/14/2011. Retained by Allyson Ostrowski in the case of People of CA v. Prieto, Robles and Prieto, Case no. TA106590, testified in admissibility hearing for human scent line up (3/28-3/30/11), testified in jury trial (4/3-4/5/11). (TP16)
66. 4/4/2011. Retained by Howard S. Grossman in the case of Richard Cicero vs. American K-9 Detection Services.
67. 4/21/2011. Retained by Arthur Goldberg/Martin Bean, Pasadena, CA, Roberto Barajas. Testified in admissibility hearing on 4/26/11 (TD11). Testified in trial on 8/7/2012 (TP17).
68. 5/25/2011. Retained by AUSA Danial E. Bennett, Middle District of Georgia, in the case of U.S.

- v. \$39,785 (10-CV-1892 (USDC E.D. Pa.).
69. 3/9/2012, Retained by AUSA Stephen R. Kotz, District of New Mexico in the case of *United States v. \$13,000.00 et. al.*, USDC Civ. No. 11CV547.
 70. 4/26/2012, Retained by AUSA Stephen R. Kotz, District of New Mexico in the case of *United States v. \$65,000.00 in U.S. Currency, et. al.*, Civ No. 12cv60 RB/LFG.
 71. 10/8/2013, Retained by Los Angeles District Attorney's Office (Stephanie Mire) in the case number BA331941, CA vs Villalobos. Testified on 12/10/13 (TP18).
 72. 1/30/2014, retained by AUSA Joshua B. Royster, Eastern District of Carolina in the case of *United States v. \$98,699.60 in U.S. Currency*, Case No. 5:13-CV-585-D. Testified on July 25, 2016. (TP19)
 73. 01/01/2015, retained by Robert Elmore in the case of *State of Florida v. Barry Davis*, Agency No. 12-003077, Walton County Florida. Testified on 05/11/2015. (TP20)
 74. 03/30/2014, retained by Ontario General Council (James McKeachie) in the case of *Attorney General of Ontario v \$13,900 in Canadian Currency* CV-14-496368
 75. 07/03/2015, retained by Dirk Ryneveld, Civil Forfeiture – 1999 Honda Accord, \$29,215.00 & Phones SCBC Action S-15 0544, Victoria Registry
 76. 03/29/2016, retained by AUSA David Lew, Western District of Pennsylvania in the case of U.S. v. \$115,980.00 in U.S. Currency, *et. al.*
 77. 06/15/2016, Retained by AUSA Stephen R. Kotz, District of New Mexico in the case of *United States v. \$494,005.00 in U.S. Currency, et. al.*
 78. 02/18/2017, Retained by Heather Henrickson, Broward County State Attorney in the case of *State of Florida v Cid Torrez*. Testified on 07/11/2017. (TP21)
 79. 10/18/2017, Retained by AUSA Matthew Fesak, Eastern District of North Carolina, US v. \$307,970 U.S. Currency, No. 4:12-CV-136-FL (EDNC)
 80. 07/10/2018, Retained by AUSA Stephen R. Kotz, District of New Mexico in the case of U.S. v. \$71,000 in U.S. Currency
 81. 10/29/2018, Retained by AUSA Stephen R. Kotz, District of New Mexico in the case of U.S. v. \$68,970, 18cv561
 82. 10/3/2018, Retained by ADA Sara Hill Milwaukee County District, State of Wisconsin v. Kris Zocco. Testified on 10/04/2018 (TP22)
 83. 3/20/2019, Retained by AUSA Stephen R. Kotz, District of New Mexico in the case of U.S. v. \$145,000.00, MM-18-0070

