

# Betty Buchan Monsour, Ph.D., D.F.T.C.B.

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## **Education and Certification**

B.S. - Chemistry - School of Chemistry, Auburn University, Auburn, Alabama, 1971

M.S. - Toxicology - School of Pharmacy, Auburn University, Auburn, Alabama, 1975

Ph.D. - Epidemiology - College of Public Health, Univ. of South Florida (USF), Tampa, Florida, 1998

Diplomate - Forensic Toxicologist Certification Board (D.F.T.C.B.), 1995, re-certified 2000, 2005, 2010  
Certification valid through August 10, 2015

Certificate of Completion – The Human Subjects Research Education Course (CITI), Univ. of Miami  
University of South Florida, April 21, 2001, re-certified 2002  
University of Alaska Anchorage, December 13, 2004, re-certified 2007, 2010

Certified Administrator and Local Trainer - Global Appraisal of Individual Needs (GAIN) Assessment  
Original certification 2000, re-certification 2006/2007

Expert Witness Qualification- Qualified (since 1975) as an Expert in Forensic Toxicology in Anchorage, Alaska and the following Florida Counties: Brevard, Flagler, Hillsborough, Indian River, Manatee, Monroe, Orange, Osceola, Pasco, Pinellas, Polk, Sarasota, St. Lucie, Seminole, and Volusia.

## **Employment**

**Assistant Professor of Public Health**

**August 2003 to present**

**Department of Health Sciences**

**University of Alaska Anchorage, College of Health and Social Welfare**

**3211 Providence Drive, DPL 405, Anchorage, Alaska 99508**

- Faculty - Masters of Public Health in Public Health Practice (MPH) program; currently teaching:
  - HS A626 Principles of Epidemiology
  - HS A625 Biostatistics for Health Professionals
  - HS A690 Cancer Epidemiology
  - HS A690 The Epidemiology of Aging
  - HS A610 Environmental & Occupational Health
  - HS A690 Principles and Practice of Toxicology in Public Health
- Research – listed on page 3
- UAA and Community Service – listed on pages 9-10
- Forensic Toxicology/Epidemiology Consultant
- Adjunct Assistant Professor, AY 2003-2004
- Term Assistant Professor, AY 2004-2005 and AY 2005-2006
- Assistant Professor (Tenure Track), AY 2006-2007 to present

**Research Director**

**July 2003 – November 2004**

**Southcentral Foundation**

**4501 Diplomacy Drive, Anchorage, AK 99508**

- Responsible for agency-wide research and program evaluation activities including both basic and applied studies serving Alaska Natives. Functions as the primary contact liaison with external researchers. Provides scientific expertise to assigned research and evaluation studies.
- Responsible for developing, coordinating, analyzing and reporting a wide array of data to accurately describe and assess the effectiveness of programs within Southcentral Foundation (SCF).

**President, (Self-Employment – Independent Forensic Consultant)**

**March 1992 – April 2004**

**Final Analysis, Inc. (Formal status of corporation dissolved April 2004)**

**6616 Cimarron Circle, Anchorage, AK 99504-3945**

- Final Analysis: Independent Analytical Chemistry, Forensic Toxicology, and Epidemiology investigation, assessment, laboratory analysis, and interpretation. Focus primarily on Forensic

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Environmental Exposure and Occupational Injury cases.

- Greater Tampa Chamber of Commerce Drug-Free Workplace Committee Member, 1993-1997: volunteer, 25% of time annually for 5 years. Conducted Epidemiologic surveys and investigations to advance occupational injury and accident surveillance for documentation of workplace drug/alcohol impairment and for occupational injury prevention training. Drafted legislation for Florida Administrative Code Chapter 59A-24 “Drug-Free Workplace Standards”, State of Florida Agency for Healthcare Administration. Drafted resolutions to the Hillsborough County Public Transportation Commission for Taxi Cab Drivers and other public transportation workers. Provided expert input to the

Federal Department of Transportation for legislation on epidemiological findings. Prepared newsletters and brochures and presented seminars relating to occupational injury prevention, particularly for drug and alcohol prevention in the workplace.

- Executive Coordinator and Board Member - Forensic Toxicologist Certification Board.
- Laboratory Inspector - U.S. Dept. of Health and Human Services/ Substance Abuse and Mental Health Services Administration (SAMHSA)/ National Laboratory Certification Program., 1992-2001. Federal Workplace Drug Testing Programs: Provided laboratory inspection for laboratories engaged in urine drug testing for Federal agencies.
- Laboratory Inspector - College of American Pathologists (CAP)/ Laboratory Certification Program.
- Full-time Doctoral student (1993-1998), USF College of Public Health, Dept. Epidemiology/Biostats.

**Vice President for Research and Laboratory Services** **July 1999 – March 2003**

**Operation PAR (Parental Awareness and Responsibility), Inc.**

**The Shirley Coletti Academy for Behavioral Change, St. Petersburg, FL**

- Administrator – Operation PAR, Inc. Institutional Review Board (IRB)
- Responsible for agency-wide research and evaluation activities including both basic and applied studies. Functions as the primary contact liaison with external researchers. Provides scientific expertise to assigned research and evaluation studies.
- Responsible for Operation PAR’s Laboratory Services: Operation PAR’s urine drug testing laboratory, licensed by the U.S. Dept.of Health & Human Services, the Florida Dept.of Health and accredited by the College of American Pathologists. The Lab analyzes 253,000 urine specimens annually).

**Research Assistant Professor, Adjunct** **June 1998 – July 2003**

**Department of Epidemiology & Biostatistics**

**Univ. of South Florida, College of Public Health, Tampa, FL**

- Graduate student research advisor
- Class Instructor/Lecturer

**Director, Forensic Laboratory Services** **April 1986 - April 1993**

**Hillsborough County Medical Examiner Department, Tampa, FL**

- Chief Toxicologist - conducted analytical chemistry/toxicology analysis on postmortem specimens for the presence of environmental and household chemicals, contaminants, poisons, volatiles, and drugs.
- Three (3) month temporary duty in 1993 as Chemist – Hillsborough County wastewater and soil laboratory. Conducted analytical chemistry tests on water and soil samples for contaminants.
- Managed and coordinated the work of the Toxicology and the Autopsy Technician sections.
- Served as Director of Operations: policy and procedure development, budget preparation, personnel management, public relations, and day to day administrative operations.
- Served as Interim Department Director (August 1990 to May 1991).
- Coordinated office functions with law enforcement agencies, the judicial system, local civic groups, the general public and other agencies concerned with office findings.

**Florida Department of Law Enforcement** **March 1975 - April 1986**

- January 1982 to April 1986

**Analyst Supervisor - Sanford Regional Crime Laboratory, Sanford, FL**

- Conducted analytical chemistry/toxicology analysis on postmortem specimens for the presence of environmental and household chemicals, contaminants, poisons, volatiles, and drugs.
- Implemented evaluation of the new Florida DUI statute.
- Designed and developed toxicology and chemistry sections of the new Orlando Regional Crime Lab.
- Managed the work activities of the toxicology, chemistry and evidence intake sections.

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- July 1981 to January 1982  
**Staff Director - Medical Examiner's Commission, Tallahassee, FL**
  - Provided executive direction to the Commission.
  - Evaluated areas for policy decisions and drafted policy statements.
  - Initiated recruitment and selection of new District Medical Examiners.
  - Made allocations and provided strict fiscal control of the State's grant-in-aid to counties.
- October 1979 to July 1981  
**Chief - Crime Laboratory Bureau, Tallahassee, FL**
  - Managed and coordinated the operation of the five (5) regional Crime Laboratories which composed the State Crime Lab Bureau.
  - Developed and implemented policies and procedures.
  - Provided personnel management, budget preparation and control, purchasing and public relations.
- March 1975 to October 1979  
**Toxicologist / Analyst Supervisor - Sanford Regional Crime Laboratory, Sanford, FL**
  - Provided direct supervision to laboratory section supervisors.
  - Coordinated continuing education for forensic analysts.
  - Conducted analytical chemistry/toxicology analysis on postmortem specimens for the presence of environmental and household chemicals, contaminants, poisons, volatiles, and drugs.

**Auburn University, Auburn, Alabama** **January 1973 – June 1975**  
Full-time graduate student, Master of Science degree in Toxicology

**US Waterways Experiment Station, Vicksburg, Mississippi** **June 1971 - December 1972**  
**Chemist**

- Conducted analytical chemistry tests on water and soil samples for contaminants.

## Research

### **Research Interests:**

Drug Impaired Drivers and general Epidemiology on Drugs of Abuse, Prevention/Treatment Medication Management/Aging Physiology for Alaska Native Elders and Senior Citizens  
Environmental Toxicology and Epidemiology, Risk assessment and Causation

### **Funded Research (completed):**

- Principal Investigator: "Drug Drivers in Alaska – A Population Based Surveillance Project".  
UAA Chancellor's Fund  
\$19,000 (2/29/08 to 8/30/09)  
Population based surveillance project to synthesize currently collected data into a single statewide Database. Database will support studies that describe and characterize drug impaired drivers in Alaska in terms of person, place, time, and related morbidity and mortality.
- Principal Site Investigator: "Florida Node of the Drug Abuse Clinical Trials Network (CTN)"  
The University of Miami/Center for Family Studies.  
NIH/NIDA Grant # CTN 1U10 DA13720  
(09/01/00 to 08/31/05). Award to Operation PAR (project specific)-  
\$356,418 for CTN #0001 Bup/Nx vs Clonidine (09/01/00 to 10/31/02).  
NIDA CTN #0001: "Buprenorphine/Naloxone versus Clonidine for Inpatient Opiate Detoxification".  
Study design - to assess the relative clinical utility of buprenorphine/naloxone in comparison to clonidine for short term (13 day) opiate detoxification initiated in the in-patient setting.
- Evaluation Manager: "Family Support Network Enhancement of Juvenile Outpatient Treatment"  
DHHS/SAMHSA/CSAT Grant # 6 H79 TI13190-01-1  
(09/30/02 to 09/29/05). Award to Pinellas County Board of County Commissioners. Operation PAR, as subcontractor, awarded \$1,498,920.

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Enhanced juvenile outpatient treatment at Operation PAR's Shirley Coletti Academy for Behavioral Change with the proposed unique integration of a proven science-based intervention known as the Family Support Network (FSN) in an existing operating outpatient program.

- Evaluation Manager: "COSA Expansion and Enhancement – a Targeted Capacity Expansion (TCE) HIV Initiative". DHHS/SAMHSA/CSAT Grant # 5 H79 TI12168-01 (10/01/99 to 09/30/02). Award to Operation PAR - \$1,217,457.  
Expanded and enhanced Day Treatment capacity from 20 to 30 slots. Program targeted 90 % women of color and their children who resided in St. Petersburg, FL. Program goal - reduce substance abuse and associated high-risk sexual behaviors. Provided educational services to children at risk for HIV.
- Site Investigator: "Suncoast Practice and Research Collaborative" (SPARC):  
Phase I: DHHS/SAMHSA/CSAT Grant # 4Kd1 ti12261-01-1 (10/01/99 to 9/30/00) Award to Operation PAR - \$20,662.  
Phase II Implementation of Community-based Practice/Research Collaborative" DHHS/SAMHSA/CSAT Grant # TI 00-0004 (10/01/00 to 9/30/03) Award to Operation PAR – \$61,986.  
Joint project led by the Louis de la Parte Florida Mental Health Institute (FMHI) at the Univ. of South Florida in collaboration with Community Treatment Providers. Designed to bridge the gap between community-based treatment providers, policy makers, and researchers with a focus on improving treatment for individuals with co-occurring substance abuse and mental health disorders in the criminal justice system through the study of Technology Transfer Research.
- Site Investigator: "Persistent Effects of Treatment Among Adolescents"  
DHHS/SAMHSA – Westat Contract # 270-97-7011 (10/01/00 to 9/30/02)  
Award to Operation PAR - \$614,639.  
Long-term follow-up (30 months) of clients enrolled in the "Effectiveness of Treatment for Cannabis Dependent Youth" study.
- Site Investigator: "Effectiveness of Treatment for Cannabis Dependent Youth"  
DHHS/SAMHSA/CSAT Grant # T111317 (10/01/98 to 9/30/01)  
Award to Operation PAR - \$1,615,843.  
A clinical trial testing the relative effectiveness and cost effectiveness of various interventions targeted at reducing marijuana use and associated problems in adolescents; and provided validated models of these interventions that can be used by the treatment field.
- Associate Investigator (Co-PI): "New Training in Detection of Illicit Drugs in Drivers"  
NIH/NIDA Grant # DA-09934-02A (SBIR). Award to *The Walsh Group*: Phase I- \$90,823; Phase II- \$550,000.  
Phase I (Sept. 1995 to Nov. 1996) – A cross-sectional epidemiologic study conducted to evaluate the feasibility of using on-site drug testing technology as a tool to identify drug impaired drivers (related to occupational injury and not) and to determine the prevalence of illicit drugs in reckless drivers (work related or not) in Hillsborough County, Florida.  
  
Phase II (Oct. 1997 to Sept. 30, 2001) – Developed, evaluated, disseminated, and implemented a training program for law enforcement officers to utilize new drug testing technology to facilitate the detection of drugged drivers.

## External Funding – Non-Research

- Principal Educator: "Medication Management and Education Training for Seniors and Elders"  
The Alaska Medication Management and Education Program (AKMEP)  
State of Alaska Reimbursable Services Agreement servicing: UAA, CHSW, Alaska Geriatric Education Center.  
Initial Funding: 07/01/05 to 06/30/06; \$ 17,500  
Renewed: 07/01/06 to 06/30/07, \$ 17,500  
Renewed: 07/01/07 to 06/30/08, \$ 30,000  
Renewed: 07/01/08 to 06/30/09, \$ 38,000

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Renewed: 07/01/09 to 06/30/10, \$ 30,000  
Renewed: 07/01/10 to 06/30/11, \$ 30,000

Develop training materials and provide education and training to older adults (Seniors/Elders) which includes teaching geriatric pharmacotherapy with age-related physiologic changes and the proper use of medications to manage health problems and prevent medication misadventures.

- Alaska Native Epidemiology Center/Alaska Native Tribal Health Consortium Stipend for workshop development: Adventures in Epidemiology: 3-day Intensive Workshop. Awarded June 2006, Amount: \$3,500
- UAA Center for Human Development/Alaska Geriatric Education Center Technology Stipend for new course development: HS690 The Epidemiology of Aging. Awarded May 2005, Amount: \$2,000

### UAA Internal Funding

- Round 2, FY 11 Faculty Grants and Leave application to attend the Third North American Congress of Epidemiology, June 20-24, 2011, Montreal, CA. Award amount \$4,048.00
- Round 2, FY 07 Faculty Research Travel Grant application for presentation of research paper “DRE Evaluations: What does the Drug Driver in Alaska Look Like?” at The International Council on Alcohol, Drugs, and Traffic Safety (ICADTS)/The International Association of Forensic Toxicologists (TIAFT) joint conference in Seattle, August, 2007. Awarded Amount: \$238.15
- Round 1, FY 07 Research Travel Grant. Presentation of research paper “Impact of alcohol and illicit drug impaired drivers on public safety in Alaska” at the 2006 American Public Health Association Conference. Amount: \$441.23
- Round 1, FY 07 Faculty Development Award to attend re-certification training on the Global Appraisal of Individual Needs (GAIN) assessment tool. July 2006. Amount: \$3,776.56
- Spring 2006 Special United Academics Research Travel Grant. Travel expenses to Sitka, Alaska to meet with Medical Director of the Southeast Area Regional Health Corporation (SEARHC) for research activities. Amount: \$569.58
- Ford Foundation Difficult Dialogues Grant on “Encountering Controversy” Faculty Intensive Participant Award. May 2006-May 2007. Amount: \$1,600

### Teaching

#### **Teaching / Lecture Topics:**

Forensic Toxicology/Pharmacology  
Environmental and Occupational Health  
Principles of Epidemiology  
Biostatistics for Health Professionals

The Epidemiology of Aging  
Cancer Epidemiology  
Public Health Research Tool & Methods  
Aging Physiology

### Professional Presentations

Krieger N, Schmidt M.I, and **Monsour B.B.** (2011, August 9) Linking the global South and North in the Americas: Building hemispheric ties and solidarity to prepare for the 2014 IEA World Congress of Epidemiology in Alaska. Symposium presented at the IEA 2011 World Congress of Epidemiology, Edinburgh, Scotland.

**Monsour, B.B.** (2011, June 30). Aspects of Aging and Medication Management? Southcentral Foundation Elder class, Anchorage, Alaska.

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**Monsour, B.B.** (2011, May 20). My Medications: What's Age Got To Do With It? Wrangell Family Caregiver Conference, Wrangell, Alaska.

**Monsour, B.B.** (2011, January 11). Using Community engagement to Educate Students and the Public about the Importance of Social, Economic, and Environmental Determinants of Health. Workshop presentation with co-faculty Janet Johnston, Jenny Miller, and Liz Snyder presented at the 2011 Alaska Health Summit, Anchorage, Alaska.

**Monsour, B.B.** (AY 2010-2011). My Medications: What's Age Got To Do With It? Eight (8) oral presentations to Senior Citizens throughout Alaska, State Contract with Alaska Geriatric Education Center

**Monsour, B.B.** (2010, October 21). My Medications: What's Age Got To Do With It? Invited lecture for HUMS 416 class – Substance Abuse and Older Adults

**Monsour, B.B.** (AY 2009-2010). My Medications: What's Age Got To Do With It? Seven (7) oral presentations to Senior Citizens throughout Alaska, State Contract with Alaska Geriatric Education Center

**Monsour, B.B.** (2010, March 17). My Medications: What's Age Got To Do With It? Juneau Family Caregiver Support Group, Juneau, Alaska

**Monsour, B.B.** (2010, March 17). My Medications: What's Age Got To Do With It? Southeast Alaska Senior Center Manager's Conference, Juneau, Alaska

**Monsour, B.B.** (2010, May 6). My Medications: What's Age Got To Do With It? Prince of Wales Island Family Caregiver Conference, Prince of Wales Island, Alaska

**Monsour, B.B.** (2009, October 27 ). My Medications: What's Age Got To Do With It? Invited lecture for HUMS 416 class – Substance Abuse and Older Adults

**Buchan, B.J.** (2009, June 16). My Medications: What's Age Got To Do With It? Community Health Aide Training in Bethel, AK, 22 participants, State Contract with Alaska Geriatric Education Center

**Buchan, B.J.** (2009, June 4). Medication Use Safety Training for Seniors, Invited lecture presentation at the 7<sup>th</sup> Annual Promoting Best Practices in Aging Conference, Anchorage, AK

**Buchan, B.J.** (AY 2008-2009). My Medications: What's Age Got To Do With It? Five (5) oral presentations to Senior Citizens throughout Alaska, State Contract with Alaska Geriatric Education Center

**Buchan, B.J.** (2008, October 29 ). My Medications: What's Age Got To Do With It? Invited lecture for HUMS 416 class – Substance Abuse and Older Adults

**Buchan, B.J.** (2008, September 16). Behavioral Aspects of Drugs of Abuse, Invited lecture presentation at the National College of District Attorneys Trial Advocacy Training, Fairbanks, AK

**Buchan, B.J.** (2008, February 15). DRE Evaluations: What does the Drug Driver in Alaska Look Like? Platform (oral) presentation at the 8<sup>th</sup> Annual Arctic Health Sciences Seminar, Anchorage, Alaska

**Buchan, B.J.** (2007, August 26-30). DRE Evaluations: What does the Drug Driver in Alaska Look Like? Platform (oral) presentation at T2007: The International Council on Alcohol, Drugs, and Traffic Safety (ICADTS)/The International Association of Forensic Toxicologists (TIAFT) joint conference, Seattle

**Buchan, B.J.** (2006, November 4-9). Impact of alcohol and illicit drug impaired drivers on public safety in Alaska. Poster presentation at the 2006 American Public Health Association Conference, Boston

**Buchan, B. J.** (2006, September 13-15). Adventures in Epidemiology: 3-day Intensive Workshop, Alaska Native Epidemiology Center/Alaska Native Tribal Health Consortium, Anchorage, Alaska

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**Buchan, B. J.** (2006, June 9). Geriatric Pharmacotherapy: Age-Related Physiologic Changes. Oral lecture at the 2006 Promoting Best Practices in Elder Health and Long-Term Supports Conference, Anchorage, Alaska

**Buchan, B. J.** (2006, June 9). The Golden Years and Keeping them Golden: Emergency Preparedness for Savy Seniors. Oral lecture at the 2006 Promoting Best Practices in Elder Health and Long-Term Support Conference, Anchorage, Alaska

**Buchan, B.J.** (2005, November 29). Medications – Over the Counter, Natural Supplements and Prescriptions: The Link between Behavioral Health and Behaviors for Elders/Seniors with Depression, Dementia, Alzheimer's and Dementia Related Disorders, Psychosis and Traumatic Brain Injuries. Oral lecture at the 23<sup>rd</sup> Annual Alaska Health Summit, Anchorage, AK

**Buchan, B.J.** (2005, October 18). Ways of Thinking. Panel presentation. University of Alaska Anchorage Forum, Anchorage, AK

**Buchan, B. J.** (2005, October 13). Marijuana. Oral lecture at the 2005 Addiction Medicine Symposium, Anchorage, AK

**Buchan, B.J.** (2005, October 2). Alaska Native Elder Medication Management – An Opportunity for Mentoring Student Researchers. Oral presentation at the International Network of Indigenous Health Knowledge and Development Conference, Vancouver, Canada

**Buchan, B.J.** (2005, September 16). Medication Management for Alaska Native Elders. Oral lecture at the 13<sup>th</sup> Annual Care of the Elderly Conference, Sitka, AK

**Buchan, B.J.** (2005, August 12). Adventures in Epidemiology Series: Understanding Data & Statistics. Southcentral Foundation continuing education lecture, Anchorage, AK

**Buchan, B.J.** (2005, July 13). Adventures in Epidemiology Series: Association vs Causation. Southcentral Foundation continuing education lecture, Anchorage, AK

**Buchan, B. J.** (2005, June 11). Medication Issues in Alaska Native Elders. Oral lecture at the 2005 Promoting Best Practices in Elder Health Conference, Anchorage, Alaska

**Buchan, B.J.** (2005, June 8). Adventures in Epidemiology Series: Public Health Surveillance. Southcentral Foundation continuing education lecture, Anchorage, AK

**Buchan, B.J.** (2005, May 11). Adventures in Epidemiology Series: Screening, Sensitivity and Specificity. Southcentral Foundation continuing education lecture, Anchorage, AK

**Buchan, B.J.** (2005, April 13). Adventures in Epidemiology Series: Rates, Ratios, Proportions; Prevalence and Incidence. Southcentral Foundation continuing education lecture, Anchorage, AK

**Buchan, B. J.** (2005, April 5). Public Health Surveillance. Oral lecture at the 2005 Alaska Public Health Training Institute, Public Health Preparedness Series, Anchorage, Alaska

**Buchan, B.J.** (2005, March 9). Adventures in Epidemiology Series: Introduction to Epidemiology & Public Health. Southcentral Foundation continuing education lecture, Anchorage, AK

**Buchan, B.J.** (2004, April 7). Adventures in Epidemiology Series: Understanding Data and Statistics. Southcentral Foundation continuing education lecture, Anchorage, AK

**Buchan, B.J.** (2004, March 3). Adventures in Epidemiology Series: Association versus Causation Statistics. Southcentral Foundation continuing education lecture, Anchorage, AK

**Buchan, B.J.** (2004, February 4). Adventures in Epidemiology Series: Public Health Surveillance. Southcentral Foundation continuing education lecture, Anchorage, AK

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**Buchan, B.J.** (2004, January 7). Adventures in Epidemiology Series: Screening, Sensitivity and Specificity. Southcentral Foundation continuing education lecture, Anchorage, AK

**Buchan, B.J.** (2003, December 10). Adventures in Epidemiology Series: Rates, Ratios, Proportions; Prevalence and Incidence. Southcentral Foundation continuing education lecture, Anchorage, AK

**Buchan, B.J.** (2003, November 12). Adventures in Epidemiology Series: Introduction to Epidemiology & Public Health. Southcentral Foundation continuing education lecture, Anchorage, AK

**Buchan, B.J.** (2002, November 13). Duh, Are you talking to me?: Marijuana and the Brain. Workshop presentation at the 2002 Florida Statewide Prevention Conference. Sponsored by the Florida Alcohol and Drug Abuse Association (FADAA). Orlando, FL.

**Buchan, B. J.** (2002, August). Teenagers in harms way: Risk-taking, impaired driving, and law enforcement involvement. Oral presentation at the 16<sup>th</sup> International Conference on Alcohol, Drugs and Traffic Safety (ICADTS), Montreal, Quebec, Canada. (Accepted for oral presentation but travel cancelled due to unforeseen circumstance).

**Buchan, B. J.,** White, M. K., Tims, F. M., & Fan, Z. (2002, June). Social influences and risk-taking behavior among adolescent cannabis users. Poster presentation at the 64<sup>th</sup> Annual Scientific Meeting of the College on Problems of Drug Dependence (CPDD), Quebec City, Canada.

**Buchan B.J.,** Hall J., & Choate D. (2001, December 3). Emerging Issues in Substance Abuse. Luncheon workshop presentation at the 2001 Florida Statewide Prevention Conference. Sponsored by the Florida Alcohol and Drug Abuse Association (FADAA). Orlando, FL.

Hamilton, N. & **Buchan, B. J.** (2001, October). What works in adolescent substance abuse treatment: new models. Workshop presentation at the Eighth National TASC Conference on Drugs and Crime: Partnerships for Building Safer Communities: Best Practices & Promising Approaches. Sponsored by SAMHSA/CSAT. Orlando, FL.

**Buchan, B. J.,** Dennis, M. L., Tims, F. M., & Urmann, C. (2001, June). Substance use and risk taking behavior among adolescents of the Cannabis Youth Treatment study. Poster presentation at the 63<sup>rd</sup> Annual College on Problems of Drug Dependence (CPDD) conference, Scottsdale, AZ.

Tims, F. M. & **Buchan, B. J.** (2000, September). Developing and implementing cross-site studies: The Cannabis Youth Treatment (CYT) study. Workshop presentation at the Annual Meeting of the Florida Alcohol and Drug Abuse Association, Orlando, FL.

**Buchan, B. J.,** Dennis, M. L., Tims, F. M., and Diamond, G. S. (2000, June). Validity of self report among adolescent marijuana clients, assessed by on-site testing and laboratory analysis. Oral presentation at the 62<sup>nd</sup> Annual College on Problems of Drug Dependence, San Juan, P.R.

**Buchan, B. J.,** Urmann, C., Hamilton, N., & Tims, F. (2000, May). Marijuana use and impaired driving behavior among adolescents in Pinellas County, Florida. Oral presentation at the 15<sup>th</sup> International Conference of the International Council on Alcohol, Drugs and Traffic Safety, Stockholm, Sweden.

**Buchan, B.J.** (Adjunct Faculty since 1997). The University of North Florida Institute of Police Technology and Management, Drug Recognition Expert School. (1998, July 22, 2 sessions): Drugs That Impair Driving-A Toxicological Study of Marijuana and Other Drugs presented at The 10<sup>th</sup> Annual Symposium on Alcohol and Drugs, Palm Beach Co., FL.

**Buchan, B.J.** (Adjunct Faculty since 1997). The University of North Florida Institute of Police Technology and Management, Drug Recognition Expert School. (1999, June 10 and 1997, April 14):

Physiology and Drugs- An Overview presented at the Drug Recognition Expert (DRE) School, Jacksonville, FL.

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**Buchan, B.J.** (1997, September 8, 2 sessions). Toxicology Evidence Collection. (1997, September 10, 2 sessions). Forensic Evidence in Reckless Homicide Cases. Workshop presentations at the Northwestern University Traffic Institute, Vehicular Homicide/DWI Conference, Binghamton, NY;

**Buchan B.J.**, Walsh J.M., Leaverton P.E. (1997, February) Evaluation of the accuracy of on-site multi-analyte drug testing devices in the determination of the prevalence of illicit drugs in drivers, Paper presented at the 1997 National Conference of the American Academy of Forensic Sciences, New York City, NY.

**Buchan, B.J.** (1995, April 28). Perinatal Addiction: Neonatal and Maternal Drug Testing. Workshop presentation at the 7<sup>th</sup> Annual National Conference on Perinatal Addiction, Chicago, IL.

**Buchan, B.J.** (1994, April 21-22, 2 sessions). Forensic Toxicology: The Final Analysis. Workshop presentations at the American Association of Legal Nurse Consultants, 1994 National Conference, Houston, TX;

**Buchan, B.J.** (1993, December 10). Portable Test Kits (On-site Drug Testing). Workshop presentation at the Greater Tampa Chamber of Commerce Drug-Free Workplace Training Seminar. Tampa, FL

**Buchan, B.J.** (1993, July 20, 2 sessions). Forensic Toxicology: The Final Analysis. Workshop presentation for the Greater Tampa Bay Chapter of the American Association of Legal Nurse Consultants, Tampa, FL

**Buchan, B.J.** (1993, June 25). Forensic Toxicology. Workshop presentation for the Office of the Public Defender, 13<sup>th</sup> Judicial Circuit of Florida, Hillsborough County, Tampa, FL.

**Buchan, B.J.** (1993, April 15). Forensic Toxicology. Law School class lecture for Nova University School of Law, Ft. Lauderdale, FL.

**Buchan, B.J.** (1983-85). Expert Witness Instructor - Trial Advocacy Program. Court Practice Institute, Nova Law Center, Nova University.

### **Professional Memberships / Affiliations**

- Institute of Translational Health Sciences – Member since 2009
- International Epidemiological Association (IEA) – Member since 2008
- Alaska Public Health Association (ALPHA) – Member since 2004 (Board of Directors, 2006)
- American Public Health Association (APHA) – Member since 1995
- International Council on Alcohol, Drugs & Traffic Safety (ICADTS) – Member since 1998
- American Academy of Forensic Sciences (AAFS) - Member since 1978
- Society of Forensic Toxicologists (SOFT) - Member since 1986
- College on Problems of Drug Dependence (CPDD) – Member, 2000-2009
- The International Association of Forensic Toxicologists (TIAFT) – Member, 1976-2009
- International Association of Forensic Sciences (IAFS) – Member, 1976-2000
- Southern Association of Forensic Sciences (SAFS) – Member, 1975-2000

### **Community Service (External)**

- President, Board of Directors – Narcotic Drug Treatment Center, Inc.(Center for Drug Problems)
- Chair – Alaska Traffic Records Coordinating Committee (ATRCC)
- Executive Chair and Host – IEA World Congress of Epidemiology 2014, Anchorage, AK
- Advisory Committee Member – Alaska Cancer Registry
- Committee Member – Alaska State Coalition for Fall Prevention

- Scientific Reviewer (abstracts) for the 2011 joint Congress of the Society of Forensic Toxicologists (SOFT) and The International Association of Forensic Toxicologists (TIAFT)
- Scientific Reviewer for journal “Addiction”
- Scientific Reviewer for Journal “Evaluation and Program Planning”

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- Scientific Reviewer for grant applications, Institute of Translational Health Science (ITHS)
- Scientific Reviewer for research grant applications, METRANS National Center for Metropolitan Transportation Research
- Board of Directors/Charter Board Member - Forensic Toxicologist Certification Board
- Member, Scientific Advisory Committee for the “DUI Alcohol and Drug” track for the joint International Council on Alcohol, Drug and Traffic Safety (ICADTS) / The International Association of Forensic Toxicologists (TIAFT) 2007 International Meeting on Traffic Safety
- Steering Committee/Task Force Member, Alaska Contaminants Network, since 2005
- Board of Directors – Alaska Public Health Association – 2006
- Agency Liaison: Research Collaborative between Operation PAR, Inc., the USF College of Public Health, and the USF Louis de la Parte Florida Mental Health Institute. Development of cooperative research programs, 1999-2003.
- Council Member - Alcohol, Drug Abuse and Mental Health Planning Council for Hillsborough County - Appointment by Hillsborough County BOCC, 1992 – 1993.
- General Chairman/Host - 1976 Fall Southern Association of Forensic Sciences Conference
- General Chairman/Host - 1979 Florida Forensic Serology and Trace Evidence Conference
- General Chairman/Host - 1984 Spring Southern Association of Forensic Sciences Conference
- General Chairman/Host - 1992 Florida Medical Examiners Annual Educational Conference
- General Chairman/Host - 1994 International Association of Forensic Toxicologists First Annual Joint Congress with the Society of Forensic Toxicologists

**UAA Service (Internal)**

- Board Member - UAA Institutional Review Board for Research Involving Human Subjects, 2006-2011
- Committee Member – UAA Biomedical Research Steering Committee
- Committee Member - UAA College of Health & Social Welfare (CHSW) Research Committee
- Committee Member - UAA College of Health & Social Welfare Distance Education Committee
- Committee Member - UAA/CHSW Department of Health Sciences: Admissions Committee, Assessment Committee, Seminar Series Committee
- Chair – UAA/CHSW Department of Health Sciences Workforce Development Committee
- MPH Program Liaison for Curriculum Coordination- UAA/CHSW Department of Health Sciences Masters’ in Public Health Program, 2005-2008

**Honors and Awards**

- Nominee for the 2011 Chancellor’s Award in the “Service to Community” category
- Anchorage Convention & Visitors Bureau (ACVB) 2009 Meeting Planner of the Year
- Delta Omega Honor Society in Public Health – 1998
- The Phi Kappa Phi Honor Society - 1995
- The Rho Chi Pharmaceutical Honor Society – 1975
- U.S. Public Health Traineeship Award – Spring, Summer, Fall 1995.
- First woman and youngest person to receive an appointment to the rank of Bureau Chief, State Crime Laboratory Bureau, Florida Department of Law Enforcement - 1980

**Publications**

**Books**

- **Monsour BB.** (2010) The Expert Witness, Current Approaches in Forensic Toxicology, Chapter 18, The Forensic Toxicologist Certification Board, Inc. Second Edition (First Edition-1994)

- **Buchan, BJ.** (2008) “Screening”, Encyclopedia of Substance Abuse Prevention, Treatment, and Recovery, Sage Publications.
- Verebey K, Meenan, G, **Buchan BJ.** (2005) Diagnostic Laboratory: Screening For Drug Abuse. Substance Abuse: A Comprehensive Textbook, Chapter 34, Lippincott, Williams & Wilkins, Fourth Edition.  
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- Verebey K, **Buchan BJ**, Turner CE. (1998) Laboratory Testing. Clinical Textbook of Addictive Disorders, Chapter 4, The Guilford Press, Second Edition.
- Verebey K and **Buchan BJ.** (1997) Diagnostic Laboratory: Screening For Drug Abuse. Substance Abuse: A Comprehensive Textbook, Chapter 35, Williams & Wilkins, Third Edition.
- **Buchan BJ.** (1994) The Expert Witness, Current Approaches in Forensic Toxicology, Chapter 18, The Forensic Toxicologist Certification Board, Inc.

### Peer Reviewed Publications

- **Monsour BB.** (2011) Developing a medication education program for seniors in Alaska: One step at a time. Manuscript submitted to the International Journal of Circumpolar Health, July 3, 2011. Under revision for resubmission.
- **Monsour BB**, and Davis LB. (2011) Developing the framework for an impaired driving tracking system for the state of Alaska. Manuscript submitted to the journal of the Transportation Research Board. August 1, 2011. Under review.
- Krieger N, Schmidt MI, and **Monsour BB.** (2011) Linking the global South and North in the Americas: Building hemispheric ties and solidarity to prepare for the 2014 IEA World Congress of Epidemiology in Alaska. Manuscript submitted to journal Public Health. August 20, 2011. Under review.
- Ziedonis, DM; Amass, L; Steinberg, M; Woody, G; Krejci, J; Annon, JJ; Cohen, AJ; Waite-O’Brien, N; Stine, SM; McCarty, D; Reid, MS; Brown Jr., LS; Maslansky, R; Winhusen, T; Babcock, D; Brigham, G; Muir, J; Orr, D; **Buchan, BJ**; Horton, T; and Ling, W. (2009) Predictors of Outcome for Short-Term Medically Supervised Opioid Withdrawal during a Randomized, Multi Center Trial of Buprenorphine-Naloxone and Clonidine in the NIDA Clinical Trials Network”, Drug and Alcohol Dependence, 2009; 99:28-36.
- **Buchan BJ**, Dunn S.(2007) DRE Evaluations: What does the Drug Driver in Alaska Look Like? Proceedings of T2007 Conference: The International Council on Alcohol, Drugs, and Traffic Safety (ICADTS)/The International Association of Forensic Toxicologists (TIAFT), Seattle, WA
- Ling, W., Amass, L., Shoptaw, S., Annon, J.A., Babcock, D., Brigham, G., Harrer, J., Reid, M., Muir, J., **Buchan, B.**, Orr, D., Woody, G., Krejci, J. and the Buprenorphine Study Protocol Group. (2005) A Multi Center Randomized Trial of Buprenorphine-Naloxone and Clonidine for Opioid Detoxification: findings from the National Institute on Drug Abuse Clinical Trials Network. Addiction, 100(8),1090-1100.
- Amass, L, Ling, W, Freese, TE, Reiber, C, Annon, JJ, Cohen, AJ, McCarty, D, Reid, M, Brown, LS, Clark, C, Ziedonis, DM, Drejck, J, Stine, S, Winhusen, T, Brigham, G, Babcock, D, Muir, J, **Buchan, B.** Horton, T. (2004) Bringing Buprenorphine-Naloxone Detoxification to Community Treatment Providers: The NIDA Clinical Trials Network Field Experience. The American Journal on Addictions. 2004; 13:S42-S66.
- Tims, FM, Dennis, ML, Hamilton N, **Buchan BJ**, Diamond G, & Funk R. (2002) Characteristics and problems of 600 adolescent marijuana abusers in outpatient treatment of marijuana disorders. Addiction, 2002;97 (Suppl. No. 1): 46-57.
- **Buchan BJ**, Dennis ML, Tims FM, Diamond GS. (2002). Cannabis Use: Consistency and validity of

self-report, on-site testing and laboratory testing. Addiction, 2002;97 (Supp. 1)98-108.

- **Buchan BJ**, Dennis ML, & Tims FM. (2001). Substance use and risk taking behavior among adolescents of the Cannabis Youth Treatment study. (Abstract) Journal of Drug and Alcohol Dependence, 2001;63 (Suppl. No. 1): s21.

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- **Buchan BJ**, Tims FM, Dennis ML . (2000). Consistency and validity of marijuana use measured by self-report, on-site testing and laboratory testing. (Abstract) Journal of Drug and Alcohol Dependence, 2000;60 (Suppl. No. 1):s26-s27.
- Walsh JM, LoDico CP, Cangianelli LA, **Buchan BJ**. (2000). Evaluation of the feasibility of using rapid immunoassay drug testing devices in a metropolitan ED/trauma center. Proceedings of the 15<sup>th</sup> International Conference: The International Council on Alcohol, Drugs and Traffic Safety, Stockholm, Sweden.
- **Buchan BJ**, Urmann C, Hamilton N, Tims F. (2000). Marijuana use and impaired driving behavior among adolescents in Pinellas County, Florida. Proceedings of the 15<sup>th</sup> International Conference: The International Council on Alcohol, Drugs and Traffic Safety, Stockholm, Sweden.
- **Buchan BJ**, Walsh JM, Leaverton PE. (1998) Evaluation of the accuracy of on-site multi-analyte drug testing devices in the determination of the prevalence of illicit drugs in drivers, Journal of Forensic Sciences, 1998;43(2):395-399.
- Fix LJ, Leaverton PE, **Buchan BJ**, Walsh JM. (1997). Prevalence of drug use in persons injured or killed in vehicular related accidents, Proceedings of the 14th International Conference: The International Council on Alcohol, Drugs, and Traffic Safety, C. Mercier-Guyon (Editor). Vol. 2, p.751-756. CERMT, Centre d'Etudes et de Recherches en Medecine du Trafic, Annecy, France.
- Walsh JM, **Buchan BJ**, Leaverton PE. (1997) Detection of Illicit Drugs in Drivers, Proceedings of the 14th International Conference: The International Council on Alcohol, Drugs, and Traffic Safety, C. Mercier-Guyon (Editor). Vol. 2, p.485-491. CERMT, Centre d'Etudes et de Recherches en Medecine du Trafic, Annecy.
- **Buchan BJ**, Walsh JM, Leaverton PE. (1997) Evaluation of the accuracy of on-site multi-analyte drug testing devices in the determination of the prevalence of illicit drugs in drivers, Proceedings of the 14th International Conference: The International Council on Alcohol, Drugs, and Traffic Safety, C. Mercier-Guyon (Editor). Vol. 2, p.511-518. CERMT, Centre d'Etudes et de Recherches en Medecine du Trafic, Annecy, France.

#### **On-going Publications**

Walch A, **Monsour BB**, and Todd MA. Evaluating the Impact of Weight Loss Surgery and High Blood Pressure in the Obese Population at One Alaska Clinic, Manuscript to be submitted to Obesity Surgery during November, 2011.

Carmon J and **Monsour BB**. Association of Body Mass Index (BMI) and Sleep Duration in U.S. Coast Guard Active Duty Members 2005-2007. Manuscript to be submitted to the journal Sleep during December, 2011.

Gill RS and **Monsour, BB**. Occupational risk factors and correlation with post-deployment mental health status among U.S. military personnel returning from the wars in Iraq and Afghanistan. Manuscript to be submitted to the journal Military Psychology January, 2012.

**Monsour BB**, DRE Evaluations: What does the Drug Driver in Alaska look like? Manuscript to be submitted to Traffic Injury Prevention during February, 2012.

#### **Trade Publications and Continuing Education Publications**

- Lewis MF, **Buchan BJ.** (1998). The drugged driver and the need for a “per se” law. The Florida Bar Journal; Vol. LXXII (7):32-38.
- **Buchan BJ.** (1994) Kits Make On-Site Testing A Reality. Greater Tampa Chamber of Commerce Drug-Free Workplace, p. 2, Second Quarter.

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- **Buchan BJ.** (1993) Blood Alcohol Tests Evaluated. Letter to the Editor. The Florida Bar Journal, Vol.LXVII.
- **Buchan BJ.** (1993) In Drug Testing, All Labs Are Not Equal In The Court’s Eyes. Greater Tampa Chamber of Commerce Drug-Free Workplace, p. 1, Third Quarter.

Updated: 09/05/2011