

Jefferey Lloyd Burgess

Curriculum Vitae

Mel and Enid Zuckerman College of Public Health
University of Arizona
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Chronology of Education

Dartmouth College, Hanover, New Hampshire	1979 - 1983
A.B. in Biology 1983 - Magna Cum Laude	
University of Washington School of Medicine, Seattle, Washington	1984 - 1988
M.D. 1988 - Honors	
University of Arizona, Tucson, Arizona	1991 - 1993
M.S. in Toxicology, Concentration in Industrial Hygiene, 1993	
University of Washington, Seattle, Washington	1994 - 1996
Department of Environmental Health, School of Public Health and Community Medicine	
M.P.H. 1996	

Postgraduate Training

University of Arizona, Tucson, Arizona	1988 - 1991
Internship and Residency in Emergency Medicine	
University of Arizona, Tucson, Arizona	1991 - 1993
Clinical Toxicology Fellowship	
University of Washington, Seattle, Washington	1994 - 1995
Occupational and Environmental Medicine Fellowship	

Chronology of Employment

Emergency Medicine Attending Physician	
El Dorado Hospital, Tucson, Arizona	1991 - 1992
Tucson Medical Center, Tucson, Arizona	1991 - 1993
Northwest Hospital, Tucson, Arizona	1992 - 1993
Carondelet St. Joseph's Hospital, Tucson, Arizona	1992 - 1993
Group Health Cooperative of Puget Sound, Seattle, Washington	1994
Associate Medical Director, Environmental and Occupational Toxicology	1993 - 2009
Washington Poison Center, Seattle, Washington	
Acting Assistant Professor, Occupational & Environmental Medicine Program	1995 - 1997
University of Washington, Seattle, Washington	
Assistant Professor, University of Arizona	1997 - 2002
Associate Professor, University of Arizona	2002 - 2009
Full Professor, University of Arizona	2009 - present
Mel and Enid Zuckerman College of Public Health, Tucson, Arizona	

Guest Researcher, Analytical Studies Branch, Health Effects Laboratory Division May-July 2003
National Institute for Occupational Safety and Health (NIOSH), Morgantown, West Virginia
Guest Researcher, Spokane Research Laboratory August-October 2003
NIOSH, Spokane, Washington
Visiting Fellow, Minerals Industry Safety and Health Centre October-December 2003
University of Queensland, Brisbane, Australia
Director, Division of Environmental and Community Health 2004 - 2006
Director, Division of Community, Environment and Policy 2006 - 2014
Mel and Enid Zuckerman College of Public Health, Tucson, Arizona
Adjunct Associate Professor, Department of Mining and Geological Engineering 2004 - 2009
Adjunct Professor 2009 - present
University of Arizona, Tucson, Arizona
Visiting Professor, Department of Environmental and Preventive Medicine January-June 2010
Shimane University College of Medicine, Izumo, Japan
Associate Dean for Research 2014 - 2021
Mel and Enid Zuckerman College of Public Health, Tucson, Arizona
Visiting Scholar, Department of Epidemiology and Preventive Medicine February-May 2023
Monash University School of Public Health and Preventive Medicine, Melbourne, Australia

Honors and Awards

Rufus Choate Scholar, Dartmouth College 1982 - 1983
Alpha Omega Alpha Medical Honors Society 1988
Fellow of the American College of Medical Toxicology 2000
Jean Spencer Felton Award for excellence in scientific writing 2005
Western Occupational and Environmental Medical Association
Fulbright Research Scholar (Japan) 2010
Excellence in Research, Distinguished Faculty Award 2010
Mel and Enid Zuckerman College of Public Health
University of Arizona Academic Leadership Institute participant 2011 - 2012
Society of Toxicology Translational Impact Award 2015
Fulbright Schuman European Union Award (United Kingdom and France) 2016
Dr. John Granito Award for Excellence in Fire Leadership and Management Research 2018
International Fire Service Journal of Leadership and Management
Dr. Wayne Peate Safety Award, Pima County Fire Chiefs Association 2020
Fulbright Future Scholarship (Australia) funded by the Kinghorn Foundation 2023
International Association of Fire Chiefs President’s Award 2023

Board Certification/Licensure

American Board of Emergency Medicine 1992, recertified 2002
Sub-Board of Medical Toxicology 1995, recertified 2004
American Board of Preventive Medicine,
specialist in Occupational Medicine 1996 (no recertification required)
Arizona Medical License current

Service/Outreach (since 1997)

Local/State Presentations

Morenci Health Care Center “Cyanide and cyanide antidotes”, Morenci, AZ	February 2, 1998
Center for Toxicology Community Outreach and Education Program “Lead poisoning”, Tucson, AZ	February 6, 1998
University Medical Center (UMC) Base Hospital Lecture, “Water-reactive and flammable solids”, Tucson, AZ	April 9, 1998
Center for Toxicology Community Outreach and Education Program Metals: Pluses & Minuses “Medical case studies”, Tucson, AZ	June 4, 1998
UMC Base Hospital Lecture “Oxides of nitrogen”, Tucson, AZ	August 4, 1998
Hospital Preparation for Hazardous Materials Incidents Training, Reno, NV “HOSP-1 and 2. Decontamination of patients. Toxicology and antidotes”	October 7, 1998
Arizona Chapter, American Industrial Hygiene Association “Clandestine Drug Laboratories”, Tucson, AZ	January 19, 1999
Center for Toxicology Community Outreach and Education Program “Lead”, Tucson, AZ	February 5, 1999
Arizona Chapter, American Society of Safety Engineers “Clandestine Drug Laboratories”, Tucson, AZ	February 16, 1999
UMC Base Hospital Lecture “Low Water Solubility Gases”, Tucson, AZ	April 6, 1999
Arizona Attorney General’s Office panelist “Kids and Methamphetamine Community Forum”, Phoenix, AZ	October 6, 1999
Advanced Hazmat Life Support Training Course “Toxic Inhalations”, Las Vegas, NV	October 8, 1999
Southwestern Environmental Health Science Center Science Fair “Respiratory Toxicology: From Firefighters to Fresh Air”, Tucson, AZ	May 15, 2000
Hospital Preparation for Hazardous Materials Incidents Training, Reno, NV “Toxicology”	June 8, 2001
Arizona Chapter, American Industrial Hygiene Association, Tucson, AZ “Firefighter exposure during overhaul and lung injury”	November 27, 2001
Advanced Hazmat Life Support Training Course “HAZMAT Case Study: Ammonia Assault”, Tucson, AZ	March 20, 2002
Southwestern Environmental Health Science Center Science Fair, Tucson, AZ “Use of cDNA Microarray to Evaluate Gene Expression in Bronchoepithelial Cells”	May 17, 2002
Clandestine Laboratory Investigating Chemists Association, New Orleans, LA “Adverse Health Effects in Clandestine Drug Lab Investigators”	Sept. 6, 2002
University of Arizona Superfund Training Core Colloquium, Tucson, AZ “Arsenic exposure in Ajo and Tucson: Evaluating the community”	Sept. 12, 2002
Pan American Health Organization Environmental Epidemiology Workshop “Environmental Toxicology/Risk Assessment” Tucson, AZ	Oct. 17, 2002
Nominated Medical Advisors Meeting, Health Surveillance Unit Queensland Government Natural Resources and Mines, Brisbane, Australia “The University of Arizona Mining Health and Safety Program”	November 18, 2003
Queensland Police Department, Brisbane, Australia “Adverse Health Effects from Exposure to Clandestine Methamphetamine Laboratories”	December 4, 2003
Australian and New Zealand Society of Occupational Medicine and Australasian Faculty of Occupational Medicine Queensland Branches, Brisbane, Australia “Occupational Exposure to Smoke and Diesel Exhaust: Respiratory Effects”	December 4, 2003
Western Regional International Health Conference, Tucson, AZ	February 1, 2004

presenter/panelist “International Environmental Health”
 Voices from Our Community Series, Tucson, AZ April 22, 2004
 presenter/panelist “The Health and Culture of Hispanic Miners in Arizona”
 Community forum, Salazar-Ajo Branch Library, Ajo, AZ February 16, 2005
 “Arsenic and other environmental exposures”
 Southern Arizona Childrens Advisory Center Multidisciplinary Team, July 21, 2005
 Tucson, AZ “Chemical hazards of methamphetamine laboratories”
 Pima Association of Governments Air Quality Subcommittee, December 13, 2005
 Tucson, AZ “Acute Respiratory Effects of Combustion Products”
 Premed Club, University of Arizona, Tucson, AZ April 4, 2006
 “Physician Opportunities in Public Health”
 University of Arizona Annual “HeadsUp” Retreat, Tucson, AZ August 15, 2006
 “Pandemic Influenza: What We Need to Know”
 Emerging Contaminants Workshop: Trace Chemical Contaminants March 2, 2007
 in Water and Wastewater-Semiarid Perspectives, Phoenix, AZ
 “Respiratory Effects of Low-Level Arsenic Exposure in Drinking Water”
 19th Annual Phoenix Fire Department Health, Fitness & Safety Symposium June 27, 2007
 Phoenix, AZ “Occupational Cancers & Exposures”
 20th Annual Phoenix Fire Department Health, Fitness & Safety Symposium May 21, 2008
 Phoenix, AZ “Cancer in the Fire Service”
 21st Annual Phoenix Fire Department Health, Fitness & Safety Symposium June 24, 2009
 Phoenix, AZ “Cancer in the Fire Service”
 Institute for Mineral Resources October 17, 2009
 Pathways to Sustainable Development Workshop Series, Tucson, AZ
 “University of Arizona Mining Health and Safety Research”
 5th Annual National Fallen Fire Fighter Benefit Dinner and Golf Tournament June 10, 2011
 Firefighter Safety Seminar, Tucson, AZ
 “Firefighter Cardiac Study Results and Implications”
 University of Arizona Steward Observatory. MMT and LBTO September 26, 2011
 Health and safety session, Tucson AZ
 “Toxi-cans and Toxi-cants” presentation with IH student Jonathan Piakis
 7th Annual Southern Arizona National Fallen Fire Fighter Association June 7, 2013
 Fire Fighter Health/Safety Seminar, Tucson, AZ
 “Fireground SOPs - Is there a relationship to firefighter injuries?”
 Fire Department Safety Officers Association September 17, 2014
 Annual Safety Forum, Scottsdale, AZ
 “True cost of injuries”
 National Institute of Environmental Health Sciences (NIEHS) April 13, 2015
 Environmental Health Sciences (EHS) Core Centers and Training Directors’ Meeting
 Tucson, AZ, “Respiratory and Systemic Toxicity Markers of Low-level Arsenic Exposure”
 Arizona Cancer Center Cancer Prevention and Control (CPC) Seminar May 4, 2016
 Tucson, AZ “Opportunities for Partnerships with Fire Departments and Tribes around
 Exposure Assessment and Effects”
 UAHS Development Team Brown Bag Lunch Series May 16, 2016
 “Occupational and Environmental Research: Opportunities for Community Based Studies”
 Arizona House of Representatives Meeting on HB2161, Phoenix, AZ February 9, 2017
 Testified on my research related to firefighters and cancer

Arizona Senate Meeting on HB2161, Phoenix, AZ Testified on my research related to firefighters and cancer	March 20, 2017
Environmental Health Seminar, University of Arizona, Tucson AZ “Firefighter Risk Management; Stops on the Road to Rouen”	March 29, 2017
UA/BIO5 Interdisciplinary Series on Biomedical Sensors and Diagnostics “Cancer Prevention in the Fire Service: Exposure Assessment, Toxic Effects and Risk Management” Tucson AZ	April 25, 2017
BIO5 Interdisciplinary Workshop & PAG/RTA Meeting, Tucson AZ “Risk Management Interventions to Reduce Fire Service Vehicle Crashes”	April 26, 2017
Tribal Environmental Health Sciences Forum Gila River Indian Community, AZ “Center for Indigenous Environmental Health Research”	Oct. 19, 2017
2018 Fire Department Safety Officers Association (FDSOA) Apparatus Symposium Scottsdale AZ “Apparatus Incident Risk Assessment”	January 16, 2018
2018 Fire Department Safety Officers Association (FDSOA) Safety Forum, Scottsdale, AZ “Strategies to Reduce Emergency Vehicle Crashes: Risk management, drivers’ training, and telematics”	January 17, 2018
Southern Arizona Safety Officers Association 2018 Safety Seminar “2014 FEMA Fire Service Cancer Study”, Tucson, AZ	September 20, 2018
Mountain West Society of Toxicology Annual Meeting, Phoenix, AZ “Epigenetic Markers in Firefighters”	September 21, 2018
The University of Arizona Cancer Center Annual Scientific Retreat, Tucson, AZ “DNA Methylation among Firefighters”	September 28, 2018
The University of Arizona College of Nursing Cutting Edge Research Seminar, Tucson, AZ “Community Engaged Research with Fire Departments”	November 14, 2018
IAFF 16 th District Caucus, Phoenix, AZ “Dangers of PFAS Chemicals”	April 29, 2019
Kent’s Heart & Hope Foundation, Tucson, AZ “Cancer Research: Fire Ground Exposures”	May 21, 2019
Arizona Senate Ad Hoc Committee on Minimizing Contaminant Risk and Exposure for First Responders, Phoenix, AZ “Firefighter Exposure Reduction Interventions and Epigenetic Studies”	October 17, 2019
San Carlos Apache College EcoCafe, San Carlos, AZ “Wildland Firefighting: Toxic Exposures in Firefighters”	November 18, 2019
2020 Fire Department Safety Officers Association (FDSOA) Safety Forum, Scottsdale, AZ Co-presenting with Captain John Gulotta of Tucson Fire Department and Chief Eric Valliere of Scottsdale Fire Department “Cancer Prevention in the Fire Service”	January 16, 2020
Arizona State Senate Appropriations Committee, Phoenix, AZ “Firefighter Exposure Reduction Interventions and Epigenetic Studies”	February 4, 2020
University of Arizona Cancer Center, Tucson, AZ Cancer Prevention and Control (CPC) Seminar EPI696B “Fire Fighter Cancer Cohort Study”	January 13, 2021

National/International

Reviewer

Peer reviewer, United States Environmental Protection Agency (EPA)	1997 - 1998
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Recognition and Management of Pesticide Poisonings

External Reviewer, Southern California NIOSH Education and Research Center	2002
Reviewer, Nomination of Chemicals for Consideration for Future National Exposure Reports Centers for Disease Control and Prevention (CDC), Atlanta, GA	2003
Scientist Reviewer, NIOSH National Occupational Research Agenda (NORA) Peer Review, Small NORA	2004
Reviewer, Third National Report on Exposure to Environmental Chemicals in Humans CDC	2005
Reviewer, Australian Government National Health and Medical Research Council Project Grant Applications	2005
Phase I Reviewer, NIEHS Superfund Basic Research and Training Program (SBRP) RFA ES-05-001	2005
External Reviewer “Future Long Term Field Evaluation Concept for Self-Contained Self-Rescuers (SCSRs)” NIOSH National Personal Protective Technology Laboratory	2007
Project Technical Panel Member, Fire Fighter Respiratory Exposure Study The Fire Protection Research Foundation, NFPA	2007
External Reviewer “Effect of Respirator Use on Carbon Dioxide and Oxygen Levels During Light and Moderate Work Rates” NIOSH National Personal Protective Technology Laboratory	2008
External Reviewer “A Case Study in Applied Social Marketing-Developing an Occupational Safety and Health Product” NIOSH Spokane Research Lab	2008
Technical Reviewer “Mine Disaster Prevention through Major Hazard Risk Management” NIOSH	2008
External Reviewer “Habitability of Portable Mine Refuge Chambers During a Nominal 96 Hours of Confinement” NIOSH National Personal Protective Technology Laboratory	2008
Reviewer, Fourth National Report on Human Exposure to Environmental Chemicals CDC	2009
Member, Scientific Review Committee, NIEHS RFA ES09-001	2009
Reviewer, 2009 Assistance to Firefighter Research Grant applications Dept. of Homeland Security (DHS), Federal Emergency Management Agency (FEMA)	2010
Reviewer, National Survey of the Mining Population Information Circular Parts I and II NIOSH Office of Mine Safety and Health Research	2010
Reviewer, 2010 Assistance to Firefighter Research Grant applications, DHS, FEMA	2011
Member, NIEHS Special Emphasis Review Panels, FOA PAR10-084	2011
Peer Reviewer, “Mine Rescue Ensembles for Underground Coal Mining” proposal NIOSH Personal Protective Technology Laboratory	2011
Reviewer, 2011 Assistance to Firefighter Research Grant applications, DHS, FEMA	2012
Member, Scientific Review Committee, Alexandria, VA NIOSH World Trade Center Research RFA PAR-12-126	2012
NIOSH Office of Mine Safety and Health Research, Technical Reviewer “Interpreting MSHA Citations through the Lens of Occupational Health and Safety Management Systems: Investigating their Impact on Mine Injuries and Illnesses 2003-2010”	2012
Member, “PPDC 21 st Century Toxicology/New Integrated Testing Strategies	2013

Workgroup Biomonitoring Subgroup” U.S. EPA

Reviewer, 2012 Assistance to Firefighter Research Grant applications, DHS, FEMA 2013

Technical Reviewer, “Assessing the Safety Culture of Underground Coal Mining” 2013
 NIOSH Office of Mine Safety and Health Research

Technical Reviewer, “CBRN Respiratory Protection Handbook” 2014
 NIOSH National Personal Protective Technology Laboratory

Reviewer, 2013 Assistance to Firefighter Research Grant applications, DHS, FEMA 2014

Reviewer, 2014 Assistance to Firefighter Research Grant applications, DHS, FEMA 2015

Peer Reviewer, rhabdomyolysis educational documents for fire fighters and their health 2017
 care providers, NIOSH Division of Surveillance, Hazard Evaluations, & Field Studies

External Reviewer, “Nonfatal Injuries and Exposures to Fire Fighters Treated in U.S. 2017
 Emergency Departments, 2003-2014”, NIOSH Division of Safety Research

Temporary Member, National Institute for Occupational Safety and Health 10/30-11/1/2017
 Safety and Occupational Health (SOH) Study Section, Chicago, IL

Reviewer, 2017 Assistance to Firefighter Research Grant applications, DHS, FEMA
 Anniston, Alabama 5/16-17, 2018

Peer Reviewer, NIOSH National Personal Protective Technology Laboratory 2021
 “Quantification and Compositional Analysis of Particles Released from Masks while
 Exposed to an Air Shower”

Reviewer, 2020 Assistance to Firefighter Research Grant applications, DHS, FEMA 2021

Peer Reviewer, NIOSH National Personal Protective Technology Laboratory 2023
 “Personal Protective Equipment Recommendations for Response to Chemical Suicide
 Incidents”; and
 “Training on the Rapid Removal of an Unresponsive Firefighter from Turnout Gear and
 Self-Contained Breathing Apparatus”

Reviewer, 2022 Assistance to Firefighter Research Grant applications, DHS, FEMA 2023

Reviewer, North Carolina State University Wilson College of Textiles 2/2/2025
 Textile Protection and Comfort Center (TPACC) 5-year review

Journal Reviews (since 2005)

American Journal of Industrial Medicine 2008 - 2011, 2013

American Journal of Respiratory and Critical Care Medicine 2017

Annals of Emergency Medicine 2008

Annals of Work Exposures and Health (formerly Ann Occup Hyg) 2015, 2017

Archives of Environmental and Occupational Health 2007, 2012, 2013, 2023

Asian Journal of Criminology 2012

British Medical Journal 2014

BMC Public Health 2013

BMC Women’s Health 2012

Cytokine 2010, 2011

Environment and Health 2023

Environmental Health 2015

Environment International 2020

Environmental Research 2007, 2014

Environmental Science: Processes & Impacts 2015

Extreme Physiology and Medicine 2012

International Journal of Environmental Research and Public Health 2015

International Journal of Hygiene and Environmental Health 2020

International Journal for Occupational and Environmental Health	2006
Journal of the American Medical Association (JAMA)	2005 - 2009, 2011, 2017, 2020
Journal of Environmental Monitoring	2010
Journal Of Exposure Science And Environmental Epidemiology	2020
Journal of the International Society for Respiratory Protection	2005
Journal of Medical Toxicology	2012, 2013
Journal of Occupational and Environmental Hygiene	2008, 2009, 2011, 2013, 2014, 2019
Journal of Occupational and Environmental Medicine	2012, 2013
Journal of Occupational Medicine and Toxicology	2008
Journal of Toxicology Clinical Toxicology	2005 - 2013
Journal of Toxicology and Environmental Health, Part A: Current Issues	2013
Minerals & Metallurgical Processing Journal	2008
Pharmacological Research	2008
Occupational and Environmental Medicine	2017
Safety and Health at Work	2014, 2015, 2017
Scandinavian Journal of Work Environment and Health	2010
Society for Mining, Metallurgy, and Exploration, Inc.	2009, 2010, 2013, 2015
The Tohoku Journal of Experimental Medicine	2007
Toxicological Sciences	2008, 2012

Section/Program/Departmental Committees

Environmental Health Sciences Section/Program Admission Committee	1999 - present
Community, Environment & Policy Division/Dept P&T Committee	2000 - 2002, 2015, 2023
Search Committees, Environmental Health Sciences Program	2015 - 2016, 2020 - 2021

College Committees

Strategic Planning Committee, Arizona Prevention Center	1998 - 1999
Governance and Resources Committee, Arizona Prevention Center	1999 - 2000
Space Committee, College of Public Health	2000 - 2006
Ad hoc committee on Tobacco Industry Funding	2001 - 2002
Promotion & Tenure Committee	2002 – 2004, 2015 - 2022
Search Committee, Epidemiology Associate/Full Professor	2005
MPH Admissions Committee/Reviewer	2006 - 2007
Undergraduate Education Workgroup	2007 - 2011
College of Public Health Dean Search Committee	2007 - 2008
Phoenix Planning Workgroup	2008
Search Committee, Health Promotion Sciences Division Director	2008 - 2009
Scientific Review Committee, Dean's Health Promotion Mini Grants	2011
Evaluation Committee (chair)	2014 - 2021
COVID-19 Taskforce	2020 - 2022
Research Advisory Committee (RAC) member	2022 - present

University Committees

Southwest Environmental Health Sciences Center, College of Pharmacy Internal Advisory Committee	1999 - 2003
Arizona Health Sciences Center Bioterrorism Advisory Group	2001 - 2002
University of Arizona Preparedness Committee	2001 - 2002
Community Outreach and Education Program Internal Advisory Board	2004 - 2005

Southwest Environmental Health Sciences Center, College of Pharmacy General Clinical Research Center Advisory Committee University of Arizona Health Sciences Center	2004 - 2005
University of Arizona Institutional Chemical Safety Committee (Co-chair) (Chairman)	2004 - 2005 2005 - 2007
Dean's Representative, Academic Advisory Committee University of Arizona Water Sustainability Program	2005 - 2012
Reviewer, Arizona Clinical and Translational Research and Education Consortium (ACTREC) Pilot Interdisciplinary Translational Research proposals	2007 - 2008
University of Arizona Campus Emergency Response Team	2007 - 2013
Selection Committee, CTSI Translational Position Hires	2011
Community Outreach and Education Core Stakeholder Advisory Board member	
Reviewer, University of Arizona College of Pharmacy Graduate Programs Academic Program Review	2011
University Distinguished Outreach Faculty Awards selection committee	2011 - 2013
Management Team, Southwest Environmental Health Sciences Center	2014 - present
University of Arizona Health Sciences Space Committee	2014 - 2021
Water, Energy & Sustainable Techology (WEST) Center Faculty Advisory Committee	2015 - 2019
Co-Chair, Search Committee, College of Pharmacy Dean's Search	2016
Internal Advisory Board member, Institute of the Environment review	2018
Co-Chair, Search Committee, College of Nursing Dean's Search	2018
Implementation leader for UAHS Strategic Planning Process	2020
Lead for COVID-19 Research Coordination Group	2020
Lead for COVID-19 Re-entry planning Core Working Group	2020
Special advisor to COVID-19 Re-entry Incident Command System	2020 - 2021
Member, Search Committee for the Associate Director of Population Sciences University of Arizona Cancer Center	2021 - 2022

Interdisciplinary Associations

Comprehensive Investigator, Arizona Cancer Center University of Arizona, Tucson, AZ	2005 - present
BIO5 Institute (The University of Arizona Institute for Collaborative Bioresearch) Member, University of Arizona, Tucson, AZ	2005 - present

Other Committees

Clandestine Drug Laboratory Steering Committee Washington State Department of Health	1994 - 1997
Metro Medical Strike Team Planning Committee City of Seattle/Seattle-King County Health Department	1997
World Health Organization International Programme on Chemical Safety Buenos Aires, Argentina	1995 - 2001 November 1997
Dublin, Ireland	June 1999
Cardiff, Wales	March 2000
Geneva, Switzerland	December 2001
Membership Committee member, American College of Medical Toxicology	1996 - 2003
Occupational and Clinical Toxicology Committee, American College of Occupational and Environmental Medicine	1997 - 1998

Emergency Response Planning Guideline Committee member American Industrial Hygiene Association	1998 - 2002
ToxMedic State Advisory Board (Arizona)	1998 - 1999
Asthma Care Alliance of Southern AZ member (American Lung Association)	1998 - 2001
Core Group member, Drug Endangered Children Arizona Attorney General's Office	1999 - 2003
Scientific Advisory Committee member, Advanced Hazmat Life Support University of Arizona Emergency Medicine Research Center, Tucson, AZ	1999 - 2010
Consensus Panel member, Evidence-Based Consensus Guidelines for the Treatment of Weapons of Mass Destruction Victims	1999 - 2004
Panel meeting, Aberdeen Proving Grounds, Maryland	2002
Board of Trustees member, American Academy of Clinical Toxicology Reelected 2005	2002 - 2008
Invited participant, Chemoterrorism Vulnerability Assessment Meeting, Mar. 31-Apr. 1, 2003 Agency for Toxic Substances and Disease Registry, Atlanta, GA	
Invited participant, Advanced Respiratory Protection Technologies R&D Opportunities Workshop, RAND Corporation/NIOSH National Personal Protective Technology Laboratory, Pittsburgh, PA	Feb. 19, 2004
Invited participant, National Working Group on Cleanup and Remediation of Methamphetamine Laboratories	
Chicago, IL	September 30, 2004
St. Paul, MN	October 25, 2004
Salt Lake City, UT	April 27, 2005
Committee to Review the NIOSH Mining Safety and Health Research Program The National Academies/National Research Council, Washington, D.C.	2006 - 2007
NIOSH National Occupational Research Agenda (NORA)	
Public Safety Council Member	2006 - 2009
Public Safety Council Co-Chair	2009 - 2020
Mining Council Member	2011 - 2019
Chemical/Radiation Preparedness Education Collaboration Group Co-chair Association of Schools of Public Health (ASPH)/CDC Centers for Public Health Preparedness	2006 - 2007
Working Group Member, Volume 98: Fire-fighting, painting and shiftwork International Agency for Research on Cancer (IARC) Monographs on the Evaluation of Carcinogenic Risks to Humans, Lyon, France	Oct. 2-9, 2007
Invited participant, Meeting on Best Practices for Meth Lab Cleanup U.S. EPA, Washington D.C.	Dec. 18-19, 2007
Invited participant, Database Systems Meeting Federal Emergency Management Agency/Assistance to Firefighter Grants, Wash. D.C.	Dec. 4, 2008
Invited participant, NIOSH Structural Fire Fighter Exposure Workshop Also presentation "Overhaul Exposures: What we know and need to know", Cincinnati, OH	Oct. 28, 2009
Invited participant, 2 nd National Fire Service Research Agenda Symposium The National Fire Academy, National Emergency Training Center, Emmitsburg, MD	May 20-22, 2011
American Board of Preventive Medicine representative, Medical Toxicology Subboard (prepares certification exam questions)	2012 - 2016
Member, Fire Protection Research Foundation (FPRF) Board of Trustees (also FRPF Research Agenda Steering Committee member during 2017)	2013 - 2018

Member, Fire Service Occupational Cancer Alliance 2015 - present
National Fallen Firefighters Foundation

Invited participant, National Fire Service Research Agenda Symposium Nov. 16-19, 2015
Arlington, VA

Mine Safety and Health Research Advisory Committee 2016 - 2020
National Institute for Occupational Safety and Health
Member 2016 -2019, Chair 2020
Organized and chaired Health Advisory in the Mining Program (HAMP) meeting,
Seattle WA September 5-6, 2019

Invited Participant, National Academies of Sciences, Engineering, and Medicine
A Conversation for Informing the NIOSH Miner Health Program
Washington, DC Mar. 23, 2018

NIEHS Emergency Preparedness workshop with UA & community partners 2019 - 2020
Assisted in planning and carrying out working

Member, Arizona State Senate Ad Hoc Committee on Minimizing Contaminant Risk and
Exposure for 1st Responders 2019

Jury Member, 2021 National Fire Service Research Agenda Symposium (virtual) March 9-10, 2021

Moderator, Panel Discussion on Health-Related Research (virtual) October 14, 2021
Fire Protection Research Foundation Workshop: Firefighting Foams: Fire Service Roadmap

Member, Project Advisory Panel of the Fire Protection Research Foundation project
“Occupational Exposure of Firefighters – A Literature Review” 2021 - 2022

Member, National Academy of Sciences, Engineering and Medicine
Committee on the Chemistry of Urban Wildfires 2021 - 2022

Member, Firefighter Cancer Support Network Health & Wellness Advisory Council 2021 – present

Member, Women in Fire Reproductive Health Working Group 2021 - present

Invited Specialist, International Agency for Research on Cancer (IARC) 2021 - 2022
Monograph 132 Working Group: Occupational Exposure as a Firefighter

USFA Workgroup Strategy Session participant, Emmitsburg, MD October 11, 2023

Invited Participant, United States Fire Administration, Washington, DC May 18, 2023
“Listening Session” on firefighter cancer and PFAS

Invited Participant, United States Fire Administration, Washington, DC May 21, 2023
USFA Summit Working Group Meeting

Publications

Chapters in Scholarly Books and Monographs

1. **Burgess JL.** Poison Information Monograph (PIM) on Benzene. World Health Organization IPCS/INTOX Program 1995.
2. Warden C, **Burgess JL.** Poison Information Monograph (PIM) on Furosemide. World Health Organization IPCS/INTOX Program 1995.
3. Warden C, **Burgess JL.** Poison Information Monograph (PIM) on Acetazolamide. World Health Organization IPCS/INTOX Program 1995.
4. **Burgess JL,** Lever P, Schumacher R. Toxic Hazards of Mining and Smelting. In: Sullivan JB, Krieger GR (eds.) *Clinical Environmental Health and Toxic Exposures* 2nd edition Lippincott Williams & Wilkins, Philadelphia, PA. 2001:530-538.

5. Greenberg D, **Burgess JL**, Hethmon T. Mining Industry. In: Greenberg MI, Hamilton RJ, Phillips SD, McCluskey GJ (eds.) *Occupational, Industrial, and Environmental Toxicology* 2nd edition Mosby, Philadelphia, PA. 2003:498-517.
6. Gerkin R, **Burgess JL**. Firefighters. In: Greenberg MI, Hamilton RJ, Phillips SD, McCluskey GJ (eds.) *Occupational, Industrial, and Environmental Toxicology* 2nd edition, Mosby, Philadelphia, PA. 2003:162-173.
7. **Burgess JL**, Chandler D. Clandestine Drug Laboratories. In: Greenberg MI, Hamilton RJ, Phillips SD, McCluskey GJ (eds.) *Occupational, Industrial, and Environmental Toxicology* 2nd edition, Mosby, Philadelphia, PA. 2003:746-765.
8. **Burgess JL**. Fumigants. In: Dart RC, Caravati EM, McGuigan MA, et al. (eds.) *Medical Toxicology* 3rd edition, Lippincott Williams & Wilkins, Philadelphia, PA 2004:1508-1515.
9. **Burgess JL**. Hazardous Materials Incidents. In: Dart RC, Caravati EM, McGuigan MA, et al. (eds.) *Medical Toxicology* 3rd edition, Lippincott Williams & Wilkins, Philadelphia, PA 2004:1756-1777.
10. **Burgess JL**. Toxic pulmonary syndromes. In: Brent J, Wallace KL, Burkhart KK, Phillips S, Donovan JW. (eds.) *Critical Care Toxicology: Diagnosis and Management of the Critically Poisoned Patient*. Elsevier Mosby, Philadelphia, PA 2005:315-334.
11. Wilson LP, Brown LD, Reed R, **Burgess JL**. Gamification of Hazards Recognition in Mining with a Tabletop Card Game. In: *Advances in Simulation and Digital Human Modeling*. Chapter No: 21. Chapter DOI:10.1007/978-3-030-51064-0_21

Refereed Journal and Book Articles (†publications by student advisees)

1. **Burgess JL**, Dart RC. Snake venom coagulopathy: use and abuse of blood products in the treatment of pit viper envenomation. *Annals of Emergency Medicine*. 1991; 20(7):795-801. PMID: 2064103.
2. **Burgess JL**, Dart RC, Egen NB, Mayersohn M. Effects of constriction bands on rattlesnake venom absorption: a pharmacokinetic study. *Annals of Emergency Medicine*. 1992; 21(9):1086-1093. PMID: 1514719.
3. **Burgess JL**, Bernstein JN, Hurlbut K. Aldicarb poisoning. A case report with prolonged cholinesterase inhibition and improvement after pralidoxime administration. *Archives of Internal Medicine*. 1994; 154:221-224. PMID: 8285817.
4. **Burgess JL**, Crutchfield CD. Tucson fire fighter exposure to products of combustion: A risk assessment. *Applied Occupational and Environmental Hygiene*. 1995; 10:37-42. <https://doi.org/10.1080/1047322X.1995.10387609>
5. **Burgess JL**, Crutchfield CD. Quantitative respirator fit tests of Tucson fire fighters and measurement of negative pressure excursions during exertion. *Applied Occupational and Environmental Hygiene*. 1995; 10:29-36. <https://doi.org/10.1080/1047322X.1995.10387608>
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 4. Lutrick K, Fowlkes A, Rivers P, Herder K, Santibanez TA, LeClair L, Groover K, Lamberte JM, Grant L, Odame-Bamfo L, Ferraris MV, Phillips AL, Sokol B, Lowe AA, Mathenge C, Pubillones FA, Cottam B, McLeland-Wieser H, Jovel KS, Ochoa JS, Mckell J, Berry M, Khan S, Solle NS, Rai RP, Nakayima FM, Newes-Adeyi G, Porter C, Baccam Z, Ellingson KD, **Burgess JL**, Gaglani M, Gwynn L, Caban-Martinez A, Yoon S. Parental Intentions and Perceptions Toward COVID-19 Vaccination Among Children Aged 4 Months to 4 Years — PROTECT Cohort, Four States, July 2021–May 2022 *MMWR Morb Mortal Wkly Rep.* September 2, 2022 / 71(35);1109–1114.
 5. The HEROES-RECOVER Network. Association of mRNA Vaccination with Clinical and Virologic Features of COVID-19 among US Essential and Frontline Workers. *JAMA.* 2022;328(15):1523–1533. doi:10.1001/jama.2022.18550. HEROES-RECOVER Authors: Mark G. Thompson, PhD; Sarang K. Yoon, DO, MOH; Allison L. Naleway, PhD; Jennifer Meece, PhD; Thomas P. Fabrizio, PhD; Alberto J. Caban-Martinez, DO, PhD, MPH; **Jefferey L. Burgess, MD, MS, MPH**; Manjusha Gaglani, MBBS; Lauren E.W. Olsho, PhD; Allen Bateman, PhD; Jessica Lundgren, RN, BSN; Lauren Grant, MS; Andrew L. Phillips, MD, MOH; Holly C. Groom, MPH; Elisha Stefanski, BS; Natasha Schaefer Solle, PhD, RN; Katherine Ellingson, PhD; Karen Lutrick, PhD; Kayan Dunnigan, MPH; Meredith G. Wesley, MPH; Kyley Guenther, BS; Angela Hunt, MLT, ASCP; Josephine Mak, MPH; Kurt T. Hegmann, MD, MPH; Jennifer L. Kuntz, PhD; Adam Bissonnette, MS; James Hollister, MS; Spencer Rose, BS; Tyler C. Morrill, MS; Karley Respet, BS; Ashley L. Fowlkes, ScD, MPH; Matthew S. Thiese, PhD, MSPH; Patrick Rivers, MPP; Meghan K. Herring, MPH; Marilyn J. Odean, MS; Young M. Yoo, MSPH; Matthew Brunner, BS; Edward J. Bedrick, PhD; Deanna E. Fleary, MsC; John T. Jones, MSPH; Jenna Praggastis, BS; James Romine, PhD, MPH; Monica Dickerson, BS; Sana M. Khan, MPH; Julie Mayo Lamberte, MSPH; Shawn Beitel, MSc; Richard J. Webby, PhD; Harmony L. Tyner, MD.

Other Publications

Abstracts (peer reviewed, not otherwise published)

1. **Burgess JL**, Robertson W. Integrating four PCC’s medical staffs. *Journal of Toxicology Clinical Toxicology* 1998;36:482-483.
2. Martin TG, **Burgess JL**, Tadaki K, Robertson WO. Critical injuries from a chlorosilane explosion. *Journal of Toxicology Clinical Toxicology* 2000;38:543.
3. Elko C, **Burgess J**. Lithium grease ingestion in a 14-month-old child. *Journal of Toxicology Clinical Toxicology* 2000;38:573-574.

4. **Burgess JL**, Waksman J, Fleming JE, Rowland HE, Conley SM. Effects of smoke exposure on sputum inflammatory cytokines. *Journal of Toxicology Clinical Toxicology* 2002;40:651.
5. Wagner P, **Burgess JL**, Castranova V, Leonard S, Fleming JE, Crutchfield CD. Adsorption of free radicals by respirator cartridges. *Journal of Toxicology Clinical Toxicology* 2002;40:681.
6. Morrissey BF, Harter LC, Cropley JM, **Burgess JL**. Residential phaseout of Chlorpyrifos and Diazinon: reductions in reported human exposure cases in Washington state. *Journal of Toxicology Clinical Toxicology*. 2004;42:806-807.
7. Josyula A, Hysong TA, **Burgess JL**. Measurement of sputum 8-OHdG as a biomarker of DNA damage in the lung associated with exposure to inhaled toxicants. *Journal of Toxicology Clinical Toxicology*. 2004;42:811.
8. Sun NN, Witten ML, Hersh LB, Lantz RC, **Burgess JL**, Wong SS. Importance of neutral endopeptidase in epithelial response to diesel particulate exposure. *The FASEB Journal*. 2007;21:A407.
9. Derby M, McNally J, Ranger-Moore J, Hulette L, Villar R, Lebowitz M, **Burgess J**. Active surveillance of foodborne illnesses using a novel syndrome database. *Advances in Disease Surveillance*. 2007;2:101.
10. Kurzius-Spencer M, Foster K, Littau S, Richey KJ, Goodman RB, **Burgess JL**. Predictive value of tracheobronchial pro- and anti-inflammatory mediator ratios in smoke inhalation victims. *Clinical Toxicology*. 2007;45:624.

General (Non-Peer Reviewed)

1. Dart RC and **Burgess JL**. Snakebite coagulopathy. *Clinical Hemostasis Review* 1990; 4: 6.
2. **Burgess J**. The Washington Poison Center HMEIS review of the oxides of nitrogen release from Boeing facility. *The Bulletin: King County Medical Society* January 1996, pp 17-19.
3. **Burgess J**. Who do you call for information? *WSMA Reports* March 1996, p 10.
4. **Burgess JL**. Methamphetamine labs: Community risks and public health responses. *Washington Public Health* Fall 1997:27-29.
5. **Burgess J**. Weapons of Mass Destruction Act of 1996. *ACMT Newsletter* 1997.
6. **Burgess J**, Klein R, Walter FG. Irritant Gases. in: Walter FG, et al. (eds.) *Advanced Hazmat Life Support Instructor Manual* University of Arizona Emergency Medicine Research Center, Tucson, AZ. 1999.
7. **Burgess J**, Klein R, Walter FG. Asphyxiants. in: Walter FG, et al. (eds.) *Advanced Hazmat Life Support Instructor Manual* University of Arizona Emergency Medicine Research Center, Tucson, AZ. 1999.
8. **Burgess J**. Evergreen Update, *American Industrial Hygiene Association Emergency Response Planning Guideline for Phosphorus Pentoxide* 2000.
9. **Burgess J** and Pelclová D. Building an International Occupational and Environmental Research Agenda. *AACTion* December 2005, Volume 14, Number 4, pp 2-4.
10. Dart RC, Bevelacqua A, DeAtley A, Sidell F, Goldfrank L, Madsen J, Alcorta R, Keim M, Auf der Heide E, Joyce S, Shannon M, **Burgess J**, Kirk M, Henretig F, Thomas R, Geller R, Bronstein AC, Eitzen E, Kilbourne E, Fenton D, Reisman D, Gum R, Tarosky M, Edelman P, Erdman A, Bogdan G. Countering Chemical Agents. *JEMS*. 2006;31:36-41.
11. **Burgess JL**. Editorial “Assessment of Mercury Exposure in a Nevada School-2004”. *Clinical Toxicology* 2007; 45:431. <https://doi.org/10.1080/15563650601033417>
12. Chico-Jarillo TM, **Burgess J**, Granillo B. Editorial “Strategies from American Indian and Alaska Native Community Partners on Effective Emergency Response Collaboration”. *American Journal of Public Health*. 2018;108(S5):S366–S368

13. Arora M, Granillo B, Zepeda TK, **Burgess JL**. Editorial “Experiential Adult Learning: A Pathway to Enhancing Medical Countermeasures Capabilities”. *American Journal of Public Health*. 2018;108(S5):S378–S380.
14. **Burgess JL**, Bevan A, Bergzoll S, Perot A, Bui D, Descatha A. Case Studies of Fire and Emergency Medical Services: Risk Management in the European Union. *International Fire Service Journal of Leadership and Management*. 2019;13:7-18.
15. Gulotta J, **Burgess J**. Fire Service Cancer: Research Partners Needed *Fire Engineering Magazine, September 2019 edition Wellness Supplement*.
16. Moore SM, Brown, C, Kiederer M, Calkins MM, **Burgess JL**, D’Alessandro M, Davis R, Fenton SE, Morrison P, Reh CM. Effective coordination, collaboration, communication, and partnering are needed to close the gaps for occupational PFAS exposure. *Am J Ind Med*. 2023;66:351-352.
17. Demers PA, DeMarini DM, Fent KW, Glass DC, Hansen J, Adetona O, Andersen MHG, Beane Freeman LE, Caban-Martinez AJ, Daniels RD, Driscoll TR, Goodrich JM, Kirkham TL, Kjaerheim K, Kriebel D, Long AS, Main LC, Oliveira M, Peters S, Teras LR, Watkins ER, **Burgess JL**, Stec AA, White PA, DeBono NL, Benbrahim-Tallaa L, de Conti A, El Ghissassi F, Grosse Y, Stayner LT, Suonio E, Viegas S, Wedekind R, Boucheron P, Hosseini B, Kim J, Zahed H, Mattock H, Madia F, Schubauer-Berigan MK. Carcinogenicity of occupational exposure as a firefighter. *Lancet*. Published June 30, 2022. DOI: [https://doi.org/10.1016/S1470-2045\(22\)00390-4](https://doi.org/10.1016/S1470-2045(22)00390-4).
18. Harries ME, Allen DT, Adetona O, Bell M, Black MS, **Burgess JL**, Dryer FL, Holder AL, Mascareñas A, Rosario-Ortiz FL, Stec AA, Turpin BJ, Zelikoff JT. A Research Agenda for the Chemistry of Fires at the Wildland–Urban Interface: A National Academies Consensus Report. *Environmental Science & Technology*. 2022;56(22):15189-15191. DOI: 10.1021/acs.est.2c07015.
19. Watkins E, Demers PA, DeMarini DM, Fent KW, Glass DC, Hansen J, Adetona O, Andersen MH, Freeman LE, Caban-Martinez AJ, Daniels RD, Driscoll TR, Goodrich JM, Graber JM, Kirkham TL, KjaerheimK, Kriebel D, Long AS, Main LC, Oliveira M, Peters S, Teras LR, **Burgess JL**, Stec AA, White PA, DeBono NL, Benbrahim-Tallaa L, de Conti A, El Ghissassi F, Grosse Y, Stayner LT, Suonio E, Viegas S, Wedekind R, Boucheron P, Hosseini B, Kim J, Zahed H, Mattock H, Madia F, Schubauer-Berigan MK. Occupational Exposure as a Firefighter-IARC Monographs on the Identification of Carcinogenic Hazards to Humans, Volume 132. (2023)
20. Burgess JL. Title: Building Collaborations for Bushfire Firefighter Health. Fulbright Participant Report, submitted Date: 9th August, 2023

Scholarly Presentations (since 1997)

Invited Speaker

- | | |
|--|-------------------|
| Conferencia Latinoamericana Sobre Accidentes Químicos
Buenos Aires, Argentina
“El servicio de información para Materiales Peligrosos” (in Spanish) | November 20, 1997 |
| Conference on Lifesaving Intervention
National Disaster Medical System Denver, CO
“Treatment Protocols & Pharmaceuticals” | March 31, 1998 |
| Risk Assessment in Chemical Emergencies
Rotterdam, The Netherlands | July 1, 1998 |

- “Definition and application of additional risk assessment information”
 American College of Medical Toxicology September 30, 1999
 Burning Issues in Medical and Fire Toxicology, San Diego, CA
 “Respiratory Effects of Smoke Inhalation”
- International Association of Fire Fighters September 25, 2001
 16th John P. Redmond Symposium, Phoenix, AZ
 “Study of Fire Fighter Exposure During Overhaul Operations”
- Clandestine Laboratory Investigating Chemists Association, New Orleans, LA Sept. 6, 2002
 “Adverse Health Effects in Clandestine Drug Lab Investigators”
- Association of Schools of Public Health, Pittsburgh, PA September 9-10, 2002
 Responding to a New Environment: Emergency Response at Schools of Public Health
 “Fire Fighters: Respiratory Protection and Lung Injury”
 “Chemical/Hazardous Materials Emergencies”
- Center for Research on Occupational and Environmental Toxicology December 9, 2002
 CROET Seminar Series, Portland, OR
 “Inhalation toxicology: new biomarkers of inflammation and gene expression”
- National Institute for Occupational Safety and Health May 30, 2003
 Pittsburgh Research Laboratory Colloquium, Pittsburgh, PA
 “The University of Arizona Mining Health and Safety Program”
- Nominated Medical Advisors Meeting, Health Surveillance Unit November 18, 2003
 Queensland Government Natural Resources and Mines, Brisbane, Australia
 “The University of Arizona Mining Health and Safety Program”
- Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists Annual Scientific Meeting, Sydney, Australia Nov. 30, 2003
 “Adverse health effects from exposure to clandestine methamphetamine laboratories”
- Australian and New Zealand Society of Occupational Medicine and Australasian Faculty of Occupational Medicine Queensland Branches, Brisbane, Australia December 4, 2003
 “Occupational Exposure to Smoke and Diesel Exhaust: Respiratory Effects”
- Queensland Police Department, Brisbane, Australia December 4, 2003
 “Adverse Health Effects from Exposure to Clandestine Methamphetamine Laboratories”
- University of California Irvine March 9, 2004
 Department of Medicine Grand Rounds, Irvine, CA
 “Where there’s smoke...: Respiratory health in firefighters”
- Department of Defense Peer Reviewed Medical Research Program April 27, 2004
 Military Health Research Forum (poster session), San Juan, Puerto Rico
 “Longitudinal changes in tracheobronchial fluid inflammatory mediators in smoke inhalation victims developing acute respiratory distress syndrome (ARDS)”
- University of Arizona May 12, 2005
 Respiratory Sciences Research Seminar, Tucson, AZ
 “Fire smoke exposure: Longitudinal decline in lung function and ALI”
- Peoples Union Medical College Seminar Series, Beijing, China June 3, 2005
 “Poison Information Centers”

Indian Health Service Unit, Northern Cheyenne Reservation, Lame Deer, MT July 7, 2005
Methamphetamine Menace in Southeastern Montana
“Clandestine methamphetamine laboratories”

University of Arizona August 12, 2005
Department of Medicine Grand Rounds, Tucson, AZ
“Health Hazards of Clandestine Methamphetamine Laboratories”

University of Arizona December 6, 2005
Mel and Enid Zuckerman College of Public Health Seminar Series, Tucson, AZ
“An Australian Sabbatical: Model Practices in Mining Injury Prevention”

ACMT 4th Annual Medical Toxicology Spring Course, Phoenix, AZ March 2, 2006
“Personal and Environmental Protection Requirements during Methamphetamine Laboratory
Seizure and Clean-up” and “Field Detection of Toxic Substances and Medical Monitoring”

Northern Arizona University, Flagstaff, AZ March 17, 2006
The Native American Cancer Research Partnership Seminar Series
“Exposure to Combustion Products: Acute and Long-term Effects”

Department of Defense Peer Reviewed Medical Research Program May 3, 2006
Military Health Research Forum (poster session), San Juan, Puerto Rico
“Tracheobronchial Markers of Lung Injury in Smoke Inhalation Victims”

Washington Poison Center, Seattle, WA July 27, 2006
“Hazardous Materials Incidents”

Arizona Public Health Association 78th Annual Meeting, Tempe, AZ September 14, 2006
Plenary Session “Future of Environmental Health”

Keynote Speaker, 10th National Chemical Diversion Conference October 17, 2006
Gold Coast, Queensland, Australia
“Health Effects of Clandestine Methamphetamine Laboratory Exposure”

Institute of Medicine of the National Academies October 23, 2006
Committee on Personal Protective Equipment in the Workplace
“Additional Perspectives on Chemical Mixtures”

University of Arizona January 23, 2007
Frontiers in Medical Research Seminar, College of Medicine Research Office, Tucson, AZ
“Arsenic Effects On the Lung: Evaluation of Lung Epithelium and Human Populations”
(Co-presented with Scott Boitano, PhD)

National Institute of Standards and Technology May 3, 2007
Workshop on Real-Time Particulate Monitoring - Respiratory Threats for First Responders
Gaithersburg, MD “Firefighter Health Effects: Overhaul and Beyond”
Published in NIST Special Publication 1051, December 2007 (www.bfrl.nist.gov/fris/)

North American Conference of Clinical Toxicology October 22, 2007
2007 Annual Meeting, New Orleans, LA
American College of Medical toxicology Fellows-in-Training Roundtable “The Development
of an Academic Career in Medical Toxicology”

American College of Toxicology 29th Annual Meeting, Tucson AZ November 12, 2008
Forensic Toxicology: Recent Advances and Current Issues Symposium “Health effects of
clandestine methamphetamine laboratory exposure”

Western Occupational Health Conference 2009 Annual Meeting, Scottsdale, AZ “Where there’s smoke...Firefighter health”	September 10, 2009
International Association of Fire Fighters John P. Redmond Symposium on the Occupational Health & Hazards of the Fire Service, New York City “Inhalation hazards at the fireground”	August 16, 2011
InterAgency Board Workshop on Evaluation of Hazards and Operations in the Post-Fire Environment, New Orleans, LA “Overhaul and beyond”	February 7, 2013
XVII International Seminar on Safety in Mining Operations, Lima, Peru Instituto de Seguridad Minera “International Evaluation of injury rates in metal and coal mining: A comparison of risk and compliance-based regulatory approaches”	April 25, 2013
National Fire Protection Association Conference and Expo, Chicago, IL Emergency Responder Research to Practice session “Fireground Injuries: An International Evaluation of Causes and Best Practices”	June 11, 2013
Segundo Congreso Nacional de Biotecnología y Ciencias Alimentarias, Instituto Tecnológico de Sonora, Ciudad Obregon, Mexico “Toxicidad del Arsénico: Identificación y pruebas de biomarcadores de efecto”	October 25, 2013
Institute of Occupational Medicine, Edinburgh, Scotland “Comparison of Acute Health Effects from Use of Diesel and Biodiesel Fuels”	September 3, 2014
International Association of Fire Fighters Toxic Flame Retardants and the Health Impacts on Fire Fighters, Washington DC “Firefighter Breast Milk and Serum”	March 8, 2015
International Association of Fire Fighters Redmond Symposium Emergency Vehicle Safety workshop, National Harbor, MD “Vehicle Data Recorders and Other Technology – Big Brother or Best Friend?”	August 28, 2015
Society for Mining, Metallurgy & Exploration (SME) Annual Meeting, Phoenix “Risk Management of DPM: Use of Alternative Fuels”	Feb. 23, 2016
National Fire Protection Association, Quincy, MA “Proposal to expand NFPA leadership in fire service risk management (RM) through the development of standards-based activity guidelines”	March 17, 2016
Harvard Environmental Health Colloquium Series, Boston, MA “Center for Indigenous Environmental Health Research (CIEHR): Evaluation of Exposure from Diet and Coal Burning Stoves in American Indian Tribes”	March 17, 2016
COST MP1105 Fire Toxicity Conference, Preston, United Kingdom “Toxicity of Fire Effluents to Firefighters”	March 22, 2016
NIOSH NORA Public Safety Sector meeting, Washington DC (called in) “The prospective multicenter firefighter cancer cohort study: Framework development”	June 8, 2016
Institute of Occupational Medicine, Edinburgh, Scotland “Proactive risk management in the European fire service: Required but not widely practiced?”	July 22, 2016
Symposium CPH 2016, Copenhagen, Denmark Focus on work environment and occupational safety for firefighters	October 26, 2016

- “Cancer Prevention in the Fire Service: Exposure Assessment, Toxic Effects & Risk Management”
- Work environment and occupational safety for firefighters: Copenhagen, Denmark Oct. 27, 2016
Psychological damage, cancers, prevention and preventive legislation
“Cancer in the Fire Service: Epidemiology, Exposures, Toxic Effects and Risk Management”
- Presentation to the Brandweer Zone Antwerpen, Antwerp, Belgium Nov. 18, 2016
“Proactive risk management in the European fire service: Identification of best practices”
- Society for Mining, Metallurgy & Exploration (SME) Annual Meeting, Denver Feb. 22, 2017
Panel member, “Health and Safety: Open Forum for the Future of the Mining Safety and Health Research Agenda”
- A. Michael Mullane Health and Safety Symposium, Boston MA May 19, 2017
“The Fire Fighter Cancer Cohort Study”
- Préventica Conference, Paris, France June 21, 2017
Session on technical and organizational innovations and health and quality of life at work for firefighters: The example of chemical risk
“Risque de cancer des services incendies aux États-Unis” (in French)
- Fire Service Joint Labor Management Wellness-Fitness Initiative Task Force June 29, 2017
“Fire Fighter Exposures: Cancer Prevention Studies” Miami, FL
- Fire Service Occupational Cancer Alliance Fire Service Occupational Cancer Symposium
“Where are we going? An overview of current research” Phoenix, AZ September 7, 2017
- Instituto Tecnológico de Sonora Workshop: Environmental arsenic in south Sonora: Biomarkers and health implications in children of the Yaqui community. September 28, 2017
“Arsenic Biomarkers”, Ciudad Obregon, Sonora, Mexico
- International Association of Fire Fighters Cancer Summit February 1, 2018
“Long-term Fire Fighter Cancer Cohort Study (FFCCS)” Lake Buena Vista, FL
- Firefighter Cancer Conference, Reykjavic, Iceland March 15, 2018
“Exposures and Cancer in the Fire Service: Studies from the States (and elsewhere)”
- International Fire Service Journal of Leadership and Management 2018 Research Symposium
Keynote Address “Fire and Emergency Medical Services Risk Management in the European Union: Case Studies and Best Practices” Tulsa, OK July 21, 2018
- Southern Area Fire Equipment Research (SAFER) August 17, 2018
“Exposure Reduction Interventions and Fire Fighter Cancer Cohort Study” Irvine, CA
- Colorado State University Health and Exercise Science Graduate Seminar Series Sept. 14, 2018
“Partnering with Fire Departments to Reduce Exposures and Health Risks” Fort Collins, CO
- Préventica Conference, Bordeaux, France October 4, 2018
Session sur Prévention, Risque Chimique et Toxicité des Fumées
“Prévention du cancer dans les services d’incendie: expositions, effets dur la santé et interventions” (in French)
- Florida Fire Chief’s Association Safety & Health Conference, Orlando, FL December 10, 2018
“Current Research on Firefighter Exposures Related to Occupational Cancer”
- International Association of Fire Fighters Affiliate Leader Training Summit, Los Angeles, CA
“Cancer Research: How Fire Ground Exposures are Affecting Fire Fighters” January 22, 2019

Aircraft Rescue and Fire Fighting Leadership Conference, Jacksonville, FL “Firefighter Cancer”	January 30, 2019
Women’s Study stakeholder meeting, Boulder, CO “Health & Wellness of Women Firefighters: Firefighter Breastmilk Analysis”	March 28, 2019
FDIC (Fire Department Instructors Conference), Indianapolis, IN. “Cancer Prevention in the Fire Service”	April 10, 2019
Congressional Fire Services Institute, Washington D.C. “Fire Fighter Cancer Cohort Study”	April 24, 2019
Oregon Fire Chiefs Association Spring Conference, Redmond, OR “Risk Management for Preventing Fire Service Vehicle Crashes”	May 3, 2019
State of the Science National Firefighter Cancer Symposium, Miami, FL “Biomedical Studies: Biomarkers of Exposure and Effect and the Fire Fighter Cancer Cohort Study”	June 10, 2019
2019 Ohio Fire & Rescue Officer Development Conference, Columbus, OH “Science Behind Cancer in the Fire Service: The Fire Fighter Cancer Cohort Study”	July 14, 2019
International Association of Fire Fighters Redmond Symposium, Nashville, TN “Biomarkers and the Fire Fighter Cancer Cohort Study”	August 21, 2019
National Fallen Fire Fighter Fire Service Occupational Cancer Seminar “How Did We Get Here and Where Are We Going?”	
Atlanta, GA	August 22, 2019
New York, NY	October 15, 2019
Romulus, MI	November 7, 2019
Jackson, MS	July 15, 2021
Orange County, CA	June 3, 2022
San Diego, CA	June 4, 2022
Saint Peters, MO (with Deputy Chief Paul Moore, Tucson Fire Department)	August 3, 2023
Columbia, MO (with Deputy Chief Paul Moore, Tucson Fire Department)	August 4, 2023
Springfield, MO (with Deputy Chief Paul Moore, Tucson Fire Department)	August 5, 2023
Washington State Department of Labor & Industries, Tukwila, WA “Risk Management for the Fire Service”	September 4, 2019
DFW/LASTFIRE/API Foam Meeting, DFW Airport, TX “PFAS and the Fire Fighter Cancer Cohort Study”	November 5, 2019
Women Firefighters’ Health and Wellness Conference, Boston, MA “Cancer Research: Updates on the Breast Milk Study and Other Studies”	November 8, 2019
International Association of Fire Fighters, Lake Buena Vista, FL Affiliate Leadership Training Summit “Cancer Research: Effects of Fire Ground Exposures and Best Practices”	January 22, 2020
Hot Topics in Wildfire: Present & Future Health Risks Symposium University of California, Irvine (UCI), Irvine, CA “The Fire Fighter Cancer Cohort Study & Wildland Urban Interface Fires - From Science to Research Based Policy Changes in the Fire Service”	February 7, 2020
2020 State of the Science Firefighter Cancer Symposium, Miami, FL	February 28, 2020

- “Per- and polyfluoroalkyl substances (PFAS) in the fire service: Exposure, human health effects, and current research”
- International Commission on Occupational Health (ICOH) April 3, 2020
Emergency Preparedness & Response in Occupational Health (EPROH) Scientific Committee
“Evaluation of Interventions to Reduce Firefighter Exposures” (virtual)
- Roswell Park Comprehensive Cancer Center, Plan for First Responder Webinar Series, Buffalo, NY
“Cancer Research: Effects of Fire Ground Exposures and Best Practices” August 20, 2020
- State of Science: Research on Women in the Fire Service (virtual meeting) November 18, 2020
“Brominated Flame Retardants and Toxicity Testing of Firefighter Breastmilk”
- University of Arizona Cancer Center Cancer Prevention and Control (CPC) Seminar
“The Fire Fighter Cancer Cohort Study” January 13, 2021
Co-presented with Captain John Gulotta, Tucson Fire Department
- Epidemiology and Biostatistics Seminar (co-presented with Dr. Kate Ellingson) May 5, 2021
University of Arizona Zuckerman College of Public Health
“Arizona Healthcare Emergency Response, and Other Essential worker Study (AZ-HEROES)”
- NORA Public Safety Sector Council Meeting State of Research and Practice for Per-and Poly-fluoroalkyl Substances (PFAS) (virtual) “Serum PFAS in Career Firefighters” May 19, 2021
- 2021 National Firefighter Cancer Symposium, Orlando, FL June 10, 2021
Refocusing on Firefighter Cancer: Advocacy/Research “The Fire Fighter Cancer Cohort Study”
- 2021 International Society for Environmental Epidemiology Annual Meeting (virtual)
Session Title: Public Health Emergency Response During COVID-19 and Beyond:
Empowering Epidemiologic Science Through Data Coordination, Funding, Academic
Networks, and Implementation Science. Presentation Title “Leveraging the Fire Fighter
Cancer Cohort Study: Evaluating the association of per- and polyfluoroalkyl substances
(PFAS) exposures with COVID-19 symptoms and antibody response” August 24, 2021
- Southwest Idaho Fire Chiefs Conference, McCall, ID September 14, 2021
“Cancer and the Fire Service” co-presentation with Captain John Gulotta, Tucson Fire Dept.
- Western Occupational Health Conference 2021, Phoenix, AZ September 30, 2021
“Proactive Risk Management: Experiences from the Fire Service and the Washington State
Firefighter Injury and Illness Reduction Initiative (FIIRE)”
Co-presented with Drs. Gerald Poplin and David Bonauto and Captain John Gulotta
- University of Arizona Cancer Center Head and Neck Translational Research Meeting
“Cancer Risks and Epigenetic Changes in Firefighters” November 17, 2021
- Collaborative on Health & the Environment (CHE) Endocrine Disrupting Chemical (EDC) Webinar
“PFAS Exposure & Epigenetics in the Firefighter Cancer Cohort Study” December 15, 2021
Co-presented with Dr. Jackie Goodrich (virtual)
- International Association of Fire Fighters, Lake Buena Vista, FL January 12, 2022
Affiliate Leadership Training Summit
“Community Engaged Research with Firefighters” co-presented with Captain John Gulotta
- 2022 National Biomonitoring Meeting Keynote speaker (virtual) January 24, 2022
“Applications of PFAS, Other Exposure and Effect Biomonitoring in Firefighters”
- Yale Occupational and Environmental Medicine Grand Rounds (virtual) February 15, 2022

- “PFAS Exposure & Epigenetics in the Firefighter Cancer Cohort Study”
 2022 National Firefighter Cancer Symposium, Miami, FL February 25, 2022
 “Fire Fighter Cancer Cohort Study (FFCCS) Update: A Panel Discussion with Firefighter Stakeholders” (with Captain Jeff Hughes (retired) Orange County Professional Firefighters Association, Fire Captain Jamie Gabriel, Los Angeles County Fire Department, Chief Administrator Brian Kubiel, Toms River Fire Department, and Engineer Derek Urwin, Los Angeles County Fire Department)
- University of Arizona Cancer Center Grand Rounds March 4, 2022
 “Use of microRNA and urine metabolomics to evaluate firefighter exposures: Implications for toxicity and carcinogenicity” (with Melissa Furlong, PhD)
- International Association of Fire Fighters Committee Forum, Las Vegas, NV May 4, 2022
 “The Fire Fighter Cancer Cohort Study (FFCCS): Updates (including the PFAS and Women Firefighter Studies)”
- PIC2022 – 17th International Congress on Combustion By-Products and Their Health Effects
 Preston, United Kingdom “Biomarkers of Toxicity in Firefighters” May 9, 2022
- NIEHS DR2 EHS Network Summer Seminar (virtual) July 18, 2022
 “Biomarkers of Toxic Effect in Firefighters”
- Los Angeles Area Fire Chiefs Association (LAAFCA) - Regional Training Group (RTG) Officer Academy, Los Angeles, CA August 23, 2022
 “Cancer Awareness and Prevention” (with Derek Urwin, PhD, UCLA and Los Angeles County Fire Department and Captain Jeff Hughes (retired), Orange County Professional Firefighters)
- Urban Fire Forum, Quincy, MA September 22, 2022
 Updates from Fire Fighter Cancer Cohort Study (FFCCS) and a review of the International “Agency for Research on Cancer (IARC) Determination that Occupational Exposure as a Firefighter Causes Cancer”
- US Fire Administrator’s Summit on Fire Prevention & Control, Emmitsburg, MD Oct. 11, 2022
 “The Fire Fighter Cancer Cohort Study (FFCCS): A Scientist-Fire Fighter Collaboration”
- Fort Worth Firefighter Cancer Symposium, Fort Worth, TX November 2-3, 2022
 “Community-Engaged Research with Firefighters” (with Captain John Gulotta, Tucson Fire Department)
- 5th Annual Miami Valley Health & Wellness Conference, Beavercreek, OH October 26, 2022
 “Cancer Risk in Firefighters: Updates from IARC and the Fire Fighter Cancer Cohort Study” and “Firefighter Reproductive Health and Child Outcomes”
- University of Arizona Cancer Center 2022 Annual Scientific Retreat October 28, 2023
 “Evaluation of firefighter exposures and cancer risks” (with Melissa Furlong, PhD)
- UC Davis Health Comprehensive Cancer Center Grand Rounds, Davis, CA November 29, 2022
 “The Fire Fighter Cancer Cohort Study (FFCCS): Community-Engaged Research” (with Derek Urwin, PhD, UCLA and Los Angeles County Fire Department)
- Science to the Station/Nerdstock, St Pete Beach, FL January 18, 2023
 “History and Future of Cancer Research” (with Captain John Gulotta, Tucson Fire Department)
- Fire Department Safety Officers Association, St Pete Beach, FL January 19, 2023
 “IARC and the FFCCS: Opportunities for Cancer Prevention” (with Captain John Gulotta)

International Association of Fire Fighters, Las Vegas, NV January 31, 2023
 Affiliate Leadership Training Summit “Fire Fighter Cancer Cohort Study”

Duke Integrated Toxicology & Environmental Health Seminar February 2, 2023
 “The Fire Fighter Cancer Cohort Study: Community-engaged research with firefighters”

Testimony for Connecticut's presumptive cancer coverage for firefighters February 7, 2023
 Legislative (virtual) presentation

Monash University School of Public Health and Preventive Medicine, Department of Public Health
 and Preventive Medicine Seminar, Melbourne, Australia February 20, 2023
 “The Fire Fighter Cancer Cohort Study”

Fulbright Australia Gala poster presentation Canberra, Australia February 23, 2023
 “Building Collaborations for Bushfire Firefighter Health”

Te Herenga Waka - Victoria University of Wellington, Wellington, New Zealand April 24, 2023
 “The Fire Fighter Cancer Cohort Study (FFCCS): Community-Engaged Research” (with Derek
 Urwin, PhD, UCLA and Los Angeles County Fire Department)

VIII Congreso Internacional, OBA-Fundación MAPFRE, Guadalajara, Mexico May 25, 2023
 “El estudio de cohorte de cáncer de bombero: Una colaboración de investigación con los
 bomberos”

Occupational Cancer and Behavioral Health Symposium, Richmond, VA May 31, 2023
 “Current Research on Firefighter Occupational Cancer and Prevention”

Metro Fire Chiefs Conference, Columbus, OH June 8, 2023
 “Updates from the Fire Fighter Cancer Cohort Study (FFCCS) and IARC Determination that
 Occupational Exposure as a Firefighter Causes Cancer”

Underwriters Laboratory Research Institutes Annual Research Symposium, Session on WUI and
 Human Health, Evanston, IL August 2, 2023
 “Wildfires and Firefighter Health: Exposures, Cancer Risk, and Interventions”

International Association of Fire Fighters Redmond Symposium, New York, NY
 “PFAS in the Fire Service: Findings from the Fire Fighter Cancer Cohort Study” Aug. 22, 2023
 “Cancer Research-From Fireground to the Fire House: Community-Engaged Research” (with
 Captain Jamie Gabriel, Los Angeles County Fire Department) August 23, 2023
 “The Fire Fighter Cancer Cohort Study (FFCCS) Women Firefighter Studies” August 24, 2023

Indiana Emergency Response Conference, Indianapolis, IN September 14, 2023
 “The Fire Fighter Cancer Cohort Study and PFAS Testing”

Urban Fire Forum, Quincy, MA September 20, 2023
 “Reproductive Health, Behavioral Health, and Women in the Fire Service”

iNOVA Firefighter Cancer Screening and Prevention Seminar, Fairfax, VA September 22, 2023
 “State of Cancer Research in Firefighters”

U.S. Fire Administrator’s Summit on Fire Prevention and Control 2023 October 10, 2023
 “Fire Fighter Cancer Cohort Study” Emmitsburg, MD

University of Arizona 2023 DC Summit - Health and the Environment October 17, 2023
 “University of Arizona: A Leader in Helping Firefighters Reduce Cancer Risk” Washington DC

Colorado State Fire Chiefs Fire Leadership Challenge 2023, Keystone, CO October 19, 2023
 “Tackling Carcinogen Exposure in the Wild West: A Focus on Wildland Firefighting”

(with Tiffany Lipsey, Colorado State University)

II International Congress of Biotechnology and Food Sciences, Technological Institute of Sonora
(virtual) Ciudad Obregon, Mexico “Firefighter Exposures and Toxicity” October 27, 2023

Science to the Station, Tucson AZ November 2, 2023

“How Practice Informs Science” (with Captain John Gulotta, Tucson Fire Department)

Other Conference Presentations (*peer reviewed)

American Academy of Clinical Toxicology Preconference Symposium September 11, 1998
State-of-the-Art Preparedness and Response for Hazardous Materials Incidents, Orlando, FL
“Poison center response to hazardous materials incidents: The Washington state experience”
and “Hazmat exposure assessment”

American College of Occupational & Environmental Medicine October 21, 1998
State of the Art Conference, Phoenix, AZ
“Longitudinal decline in firefighter DLCO measurements: A respiratory surveillance
dilemma”

European Association of Poison Centres and Clinical Toxicologists June 23, 1999
XIX International Conference, Dublin, Ireland
“Health effects of hazardous materials exposures: A prospective study in Washington State”

International Congress on Occupational Health August 31, 2000
26th International Conference, Singapore
“Chemical incidents: health effects and medical treatment”

North American Conference of Clinical Toxicology September 15, 2000
2000 Annual Meeting, Tucson, AZ
“Adverse respiratory effects following overhaul in firefighters”
and “Medical surveillance of clandestine drug lab investigators”

American Academy of Clinical Toxicology Preconference Symposium October 4, 2001
Occupational Pulmonary Toxicology: Recent Advances in Evaluation, Diagnosis, Treatment
and Prevention of Workplace Outbreaks of Respiratory Illness, Montreal, Québec, Canada
Conference organizer and moderator, included case presentation “Case Studies in Workplace
Outbreaks of Respiratory Illness”

North American Conference of Clinical Toxicology October 8, 2001
2001 Annual Meeting, Montreal, Québec, Canada
Session moderator “AACT Occupational and Environmental Symposium: Teratology Primer
for Poison Control Centers”

American Occupational Health Conference 2002, Chicago, IL April 16, 2002
Current Research in Occupational-Environmental Medicine
“Adverse Respiratory Effects Following Overhaul in Firefighters”

*North American Conference of Clinical Toxicology September 28-29, 2002
2002 Annual Meeting, Palm Springs, CA
“Effect of Smoke Exposure on Inflammatory Cytokines”
“Interleukin-10 Single Nucleotide Polymorphisms and Longitudinal Decline in Lung Function”
and “Adsorption of Free Radicals by Respirator Cartridges”

* 27th International Congress on Occupational Health, Iguassu Falls, Brazil February 27, 2003

“Use of cDNA Microarray to Evaluate Alterations in Gene Expression in Bronchoepithelial Cells”

*American Thoracic Society 2004 May 24-25, 2004

International Congress of the American Thoracic Society, Orlando, FL

“Evaluation of Pulmonary Inflammation Following Underground Exposure to Diesel Exhaust” (poster)

“Longitudinal Decline in Lung Function: Evaluation of Interleukin-10 Genetic Polymorphisms in Firefighters” (poster)

Longitudinal Changes in Tracheobronchial Suction Fluid Inflammatory Mediators Following Smoke Inhalation” (poster)

North American Conference of Clinical Toxicology September 14, 2004

2004 Annual Meeting, Seattle, WA

“Medical Monitoring and Surveillance of Occupational and Environmental Exposures”

Seminar organizer and presenter

*American Thoracic Society 2005 May 23-24, 2005

International Congress of the American Thoracic Society, San Diego, CA

“Sputum Cytokines and Longitudinal Decline in Lung Function in Firefighters” (poster, preliminary results presented)

“Use of Tracheobronchial Suctionate Inflammatory Markers to Predict Subsequent Lung Injury in Smoke Inhalation Victims” (poster)

“Environmental Arsenic Exposure and Sputum Metalloproteinase Concentration” (poster, preliminary results presented)

North American Conference of Clinical Toxicology September 13-14, 2005

2005 Annual Meeting, Orlando, FL

Organizer and Presenter of a symposium “Building an International Occupational and Environmental Research Agenda” including speakers from the EPA, NIOSH, DHS, WHO, Czech Republic and Australia

*“Tracheobronchial Biomarkers of Acute Lung Injury” (oral presentation platform session)

*“Low Dose Arsenic Exposure and Urinary 8-OHdG in Arizona and Sonora” (poster)

*“Sputum Cytokines and Longitudinal Decline in Lung Function in Firefighters” (poster, updated findings presented including a larger number of firefighters)

*“Environmental Arsenic Exposure and Sputum Metalloproteinase Concentrations” (poster, final research findings presented, including new information on TIMP-1)

National Institute for Occupational Safety and Health April 19, 2006

NORA Symposium 2006, Washington D.C.

“Single Nucleotide Polymorphisms (SNPs) Associated with Decline in Lung Function in Firefighters” and “International Evaluation of Injury Rates in Coal Mining: A Comparison of Risk and Compliance Based Regulatory Approaches”

* 28th International Congress on Occupational Health, Milan, Italy June 12, 2006

“International Evaluation of Injury Rates in Coal Mining: A Comparison of Risk and Compliance Based Regulatory Approaches”

Public Health Preparedness Summit February 22, 2007

2007 Annual Meeting, Washington D.C.

“Chemical Incident Response” part of session “Integrating Poison Control Centers in Preparedness and Response”

- *North American Conference of Clinical Toxicology October 23, 2007
 2007 Annual Meeting, New Orleans, LA
 “Predictive Value of Tracheobronchal Pro- and Anti-Inflammatory Mediator Ratios in
 Smoke Inhalation Victims” (poster)
- Urban Fire Forum, Metro Fire Chiefs, Quincy MA October 21, 2011
 “Fireground Injuries: An International Comparison of Causes and Best Practices”
- *International Society of Exposure Science, Cincinnati, OH October 13, 2014
 “Comparison of Diesel and Biodiesel Exhaust: Acute Human Health Effects”
- *31st International Congress on Occupational Health, Seoul, South Korea June 1, 2015
 “Implementing Risk Management to Reduce Injuries in the U.S. Fire Service”
- *International Society of Exposure Science, Utrecht, Netherlands October 10, 2016
 “Cancer Prevention in the Fire Service: Exposure Assessment, Toxic Effects and Risk
 Management”
- FDIC International, Indianapolis, IN April 25, 2018
 “Strategies to Reduce Emergency Vehicle Crashes”
- * International Congress on Occupational Health (ICOH) 2018, Dublin, Ireland
 “Use of Urinary Biomarkers and Bioassays to Evaluate Chemical Exposure and Activation of
 Cancer Pathways in Firefighters” May 1, 2008
 “The Firefighter Multicenter Cancer Cohort Study: Framework Development and Testing”
 May 3, 2018

Grants and Contracts (total amount unless otherwise indicated)

Federal

- Clinical Pharmacology Training Grant, National Institutes of Health 1991 - 1993
- Agency for Toxic Substances and Disease Registry Clinical Fellowship 1993 - 1995
- NIEHS Center for Toxicology: Southwest Environmental Health Sciences Center 1997 - 1999
 (PI: Sipes) Investigator, \$677,809/yr direct
- NIEHS Center for Toxicology: Southwest Environmental Health Sciences Center 1999 - 2004
 (PI: Liebler) Investigator, \$842,299/yr direct
- NIOSH Special Emphasis Research Career Award (K01) 1998 - 2001
 PI, Project: Biomarkers of smoke exposure among firefighters. \$150,000 direct
- EPA “EMPACT” grant with Pima Department of Environmental Quality 1999 - 2001
 Investigator, Project: Public Access to Environ. Monitoring Data in Tucson, AZ. \$380,075/yr
 direct
- Fogarty International Center: 2001 - 2008
 International Training and Research in Environmental and Occupational Health (ITREOH)
 PI, Project: "International Program for Mining Health and Safety". \$583,315
- National Institute for Environmental Health Sciences 2001 - 2002
 Admin. Supplement to the Southwest Environmental Health Sciences Center (PI: Liebler)
 Project leader, Project: "Alterations in Epithelial Cell Gene Expression Following
 Environmental Arsenic Exposure". \$100,000 direct
- U.S. Army Medical Research and Materiel Command 2002 - 2007

Peer Reviewed Medical Research Program
 PI, Project: “Acute Lung Injury Following Smoke Inhalation: Predictive Value of Sputum Biomarkers and Time Course of Lung Inflammation”. \$1,268,730

National Institute for Environmental Health Sciences 2002 - 2005
 Community Based Prevention Intervention Research Core (part of Hazardous Waste Risk and Remediation in the Southwest grant, PI: Gandolfi)
 PI, Project: “Changes in Epithelial Cell Gene Expression Associated with Reduction in Drinking Water Arsenic”. \$562,822

National Institute for Environmental Health Sciences 2002 - 2005
 Admin. Suppl. to Hazardous Waste Risk and Remediation in the Southwest (PI: Gandolfi)
 Project leader, epidemiology subproject: “University of Arizona-Dartmouth Collaborative Studies on Arsenic Toxicity”. \$35,000 direct

National Institute for Nursing Research, NIH 2003 - 2008
 Sponsor for predoctoral training grant (Mary Derby, RN, MPH) “Enhanced Foodborne Surveillance Application to Nursing”. \$137,626

National Institute for Occupational Safety and Health 2004 - 2007
 PI, Project: “International Evaluation of Injury Rates: A Comparison of Risk and Compliance Based Regulatory Approaches”. \$62,300 over three projects

National Cancer Institute, NIH 2004 - 2007
 (PI: Martinez) Co-investigator, Project: “Arsenic Effects on Colon Cancer”
 Supplement to SPORE Grant in Gastrointestinal Cancer. \$1,356,013

U.S. Environmental Protection Agency 2005 - 2009
 (PI: Lantz) Investigator, Project: “Pulmonary Biomarkers Based on Alterations in Protein Expression Following Exposure to Arsenic”. \$726,652

National Institute for Occupational Safety and Health 2005 - 2006
 PI, Project: “Development of Test Methods for Evaluating Air Purifying Respirator Cartridges for Firefighting Operations”. \$50,000

Centers for Disease Control and Prevention/Association of Schools of Public Health 2005 - 2010
 PI, Project: “Arizona Center for Public Health Preparedness”. \$3,548,573

National Cancer Institute, NIH 2006 - 2007
 Pilot project within the Native American Cancer Research Partnership (PI: Canfield)
 Co-leader, Project “Occupational Carcinogenic Exposures in Native American Firefighters”. \$38,746 direct

National Institute for Occupational Safety and Health 2008 - 2009
 PI, Project: “Development of a Severe Injury Surveillance System for Hazard Identification and Guiding Technological Interventions”. \$370,610

Federal Emergency Management Agency 2008 - 2010
 PI, Project: “Determination of Risk Factors for Cardiovascular Disease in Firefighters”. \$1,000,000

U.S. Environmental Protection Agency 2008 - 2011
 PI, Project: “Modeling Dietary Contributions to Arsenic Dose and Methylation: Elucidating Predictive Linkages”. \$499,999

FEMA Assistance to Firefighters Grant Program - Fire Prevention and Safety 2009 - 2012

PI, Project: “Fireground Injuries: An International Evaluation of Causes and Best Practices”
\$1,000,000

National Institute for Occupational Safety and Health 2009 - 2013
PI, Project: “Implementing Risk Management Strategies to Prevent Injuries among
Firefighters” \$1,352,731

National Institute for Occupational Safety and Health 2009 - 2028
Occupational Safety & Health Training Program Grants (T01)
PI, Project: “Graduate Industrial Hygiene Program Grant, University of Arizona” \$2,028,145

U.S. Army Medical Research and Materiel Command 2009 - 2019
Awarded to the American Burn Association, subawarded the Arizona Burn Center
(PI: Foster) Investigator, Project: “Development of an Inhalation Injury Scoring System to
Predict Severity of Inhalation Injury” \$1,035,968

FEMA Assistance to Firefighters Grant Program - Fire Prevention and Safety 2010 - 2013
PI, Project: “Firefighter Statin Trial: Reducing Atherosclerotic Disease and Risk Factors”
\$1,000,000

National Institute for Occupational Safety and Health 2010 - 2014
MPIs: Poulton and Burgess, Project: “Western Mining Safety and Health Resource Center”
\$1,618,834

Centers for Disease Control and Prevention 2010 - 2015
PI, Project: “Mountain West Preparedness and Emergency Response Learning Center”
\$4,688,285

National Institute for Occupational Safety and Health 2012 - 2015
PI, Project: “Comparison of Diesel and Biodiesel Emissions and Health Effects in
Underground Mining” \$1,419,061

Centers for Disease Control and Prevention 2013 - 2016
PI, Project: “Whole Community Inclusive Emergency Planning” \$600,000

FEMA Assistance to Firefighters Grant Program - Fire Prevention and Safety 2014 - 2017
PI, Project: “Risk Management Interventions to Reduce Vehicle-related Incidents and
Fatalities” \$1,406,451

National Institute for Occupational Safety and Health 2014 - 2017
(PI: Poulton) Investigator, Project: “Western Mining Safety and Health Resource Center:
Translating Training to Competency” \$1,385,390

FEMA Assistance to Firefighters Grant Program - Fire Prevention and Safety 2015 - 2018
PI, Project: “Cancer Prevention in the Fire Service: Exposure Assessment, Toxic Effects and
Risk Management” \$1,500,000

National Institute of Environmental Health Sciences/Environmental Protection Agency
PI, Project: “Center for Indigenous Environmental Health Research” \$5,000,000 2015 - 2021

Association of Schools and Programs of Public Health/
Centers for Disease Control and Prevention 2016 - 2017
PI, Project: “Building an Effective Tribal and Multijurisdictional Response Network to
Improve Preparedness and Response” \$1,080,356

FEMA Assistance to Firefighters Grant Program - Fire Prevention and Safety 2016 - 2019

PI, Project: “The Firefighter Multicenter Cancer Cohort Study: Framework Development and Testing” \$1,500,000

FEMA Assistance to Firefighters Grant Program - Fire Prevention and Safety 2017 - 2020
 (PI: Jahnke) PI for subcontract (\$386,993) to evaluate firefighter breastmilk, Project: “Health and Wellness of Women Firefighters”

National Institute for Occupational Safety and Health 2017 - 2020
 PI, Project: “Western Mining Safety and Health Training Resource Center: An Integrated Approach” \$1,458,000

National Institute for Occupational Safety and Health 2018 - 2021
 PI, Project: “Alternative Fuel Use to Reduce Diesel Emissions Exposure and Toxicity in Mining” \$1,774,872

FEMA Assistance to Firefighters Grant Program - Fire Prevention and Safety 2018 - 2021
 (PI: Caban-Martinez) PI for subcontract (\$407,360) to evaluate epigenetic markers, Project: “Expansion of the Fire Fighter Cancer Cohort Study: Arson Investigators, Instructors, Volunteers, and Wildland-Urban Interface Firefighters”

National Institute of Environmental Health Sciences 2018 - 2023
 (PI: Cherrington) Research Leader (Admin Core) and Integrative Health Sciences Facility Core Co-Director, Project: “Southwest Environmental Health Sciences Center \$6,907,510

National Institute of Environmental Health Sciences 2018 - 2019
 Admin. Suppl. to Southwest Environmental Health Sciences Center (PI: Cherrington)
 Project lead: “Polyfluoroalkyl substances (PFAS) Exposures and Epigenetic Markers in Firefighters” \$76,750

FEMA Assistance to Firefighters Grant Program - Fire Prevention and Safety 2019 - 2022
 PI, Project: “Per- and Polyfluoroalkyl Substances (PFAS): Firefighter Exposures and Toxicity” \$1,428,571

FEMA Assistance to Firefighters Grant Program - Fire Prevention and Safety 2019 - 2022
 (PI: Kuehl) Investigator, Project: “Total Worker Health for Wildland Firefighters” \$1,500,000

National Cancer Institute 2019 - 2021
 (PI: Briehl) Investigator “Partnership for Native American Cancer Prevention” \$6,851,873
 Role: Co-Lead of Evaluation Core through July, 2021 (stepped down due to AZ HEROES)

Centers for Disease Control and Prevention 2020 - 2022
 (PI: Abt Associates) Site PI for subcontract (\$1,100,444), Project: “Research on the Epidemiology of COVID-19 in Emergency Response and Healthcare Personnel (RECOVER)”

Centers for Disease Control and Prevention 2020 - 2021
 PI: Project: “Arizona Healthcare, Emergency Response, and Other Essential Workers Surveillance (AZ HEROES) Study” \$7,772,654

National Institute for Occupational Safety and Health 2020 - 2023
 PI, Project: “Western Mining Safety and Health Training Resource Center: Evidence-based Learning Laboratories” \$1,458,000

National Institute of Environmental Health Sciences 2020 - 2022

PI: Project: “Per- and Polyfluoroalkyl substances (PFAS) Exposures and COVID-19 in Firefighters”	\$404,799
FEMA Assistance to Firefighters Grant Program - Fire Prevention and Safety	2020 - 2023
PI, Project: “Women Fire Fighters Study: Stress, Cancer Risk and Reproductive Toxicity”	\$1,500,000
Centers for Disease Control and Prevention	2021 - 2022
PI: Project: “Prospective Cohort to Evaluate the Immunogenicity and Effectiveness of COVID-19 Vaccines among Previously Infected and Uninfected Essential and Frontline Workers and Children in Arizona” (second year of the AZ HEROES Study)	\$15,002,992
FEMA Assistance to Firefighters Grant Program - Fire Prevention and Safety	2021 - 2024
PI, Project: “Wildland Fire Fighters: Exposure Assessment, Carcinogenic Effects and Risk Management”	\$1,500,000
National Institute of Environmental Health Sciences	2021 - 2023
PI: Project: “Per- and Polyfluoroalkyl Substances (PFAS) Exposures and COVID-19 Vaccine Effectiveness”	\$414,635
Centers for Disease Control and Prevention	2022 - 2023
PI: Project: “Prospective Cohort to Evaluate the Immunogenicity and Effectiveness of COVID-19 Vaccines among Previously Infected and Uninfected Essential and Frontline Workers and Children in Arizona” (third year of the AZ HEROES Study)	\$22,406,854
FEMA Assistance to Firefighters Grant Program - Fire Prevention and Safety	2022 - 2025
PI, Project: “Women Fire Fighters Study: Evaluation of Exposures and Toxicity”	\$1,500,000
FEMA Assistance to Firefighters Grant Program - Fire Prevention and Safety	2023 - 2026
PI, Project: “Wildland Firefighters: Expanded Exposure Measurement and Exposure Reduction Interventions”	\$1,500,000
FEMA Assistance to Firefighters Grant Program - Fire Prevention and Safety	2023 - 2026
(PI: Goodrich) Investigator, Project: “High Risk/Low Frequency Incidents: Assessing Markers of Toxicity in Firefighters Responding to Disasters”	\$1,500,000
National Institute of Environmental Health Sciences	2024 - 2028
PI: Project: “Wildland-Urban Interface Fire Exposures, Effects, and Interventions: A Collaborative Research-to-Action Partnership with Firefighters”	\$3,808,908
Industry	
The Boeing Company Corporate Contributions Medical Research Grant	1997 - 1999
PI, Project: Washington state hazardous materials incident study.	\$200,000
Port of Portland Fire Department	2019 - 2021
PI, Project: The Fire Fighter Cancer Cohort Study.	\$26,650
Ted Stevens Anchorage International Airport Police & Fire Dept	2019 - 2021
PI, Project: Firefighter Cancer Cohort Study - PFAS Testing.	\$39,000
Port of Seattle Fire Department	2019 - 2020
PI, Project: Evaluation of PFAS Levels in ARFF Firefighters.	\$39,000
Tucson Airport Authority Fire Department	2019 - 2020
PI, Project: Firefighter Cancer Cohort Study - PFAS Testing.	\$2,600

Private Foundations/Other

Medical Student Research Training Program Grant, University of Washington School of Medicine	1985
Emergency Medicine Foundation Resident Research Award	1990
Southwest Environmental Health Sciences Center Pilot Project Grant PI, Project: Serum Biomarkers of Lung Injury Among Police. \$7,500 direct	1999 - 2000
Arizona Department of Health Services PI, Project: Hayden Winkelman Lead and Arsenic Survey. \$102,773	1999 - 2000
University of Southern California/NIOSH ERC Pilot Project Grant PI, Project: Use of Airway Macrophages as Biomarkers of Genotoxic Exposure. \$14,981	1999 - 2000
Southwest Environmental Health Sciences Center Pilot Project Grant (matching) PI, Project: Use of Pulmonary Macrophages as Biomarkers of Genotoxic Exposure. \$15,000 direct	2000 - 2001
University of Southern California/NIOSH ERC Pilot Project Grant PI, Advisor to Dr. Marian Fierro, Project: Genetic Susceptibility to Accelerated Loss of Pulmonary Function in Firefighters. \$14,040	2000 - 2001
Southwest Environmental Health Sciences Center Pilot Project Grant PI, Project: Use of cDNA Microarray to Evaluate Alterations in Gene Expression in Bronchoepithelial Cells. \$30,000 direct	2001 - 2002
University of Southern California/NIOSH ERC Pilot Project Grant PI, Advisor to Joy Fleming, Project: Evaluation of Pulmonary Inflammation Following Occupational Exposure to Diesel Exhaust. \$8,560	2001 - 2002
State of Arizona Attorney General's Office PI, Project: Remediation work practices and cleanup levels for clandestine drug laboratories. \$94,084	2001 - 2002
University of California at Los Angeles /NIOSH ERC Pilot Project Grant PI, Advisor to Arun Joysula, Project: Pulmonary Inflammation and Longitudinal Decline in Lung Function. \$17,712	2003 - 2004
California Office of Bi-National Border Service PI, EWIDS (Early Warning Infectious Disease Surveillance) Border-wide Needs Assessment Tool. \$34,756	2005
Southwest Environmental Health Sciences Center Pilot Project Grant PI, Project: Environmental Arsenic Exposure, Lung Remodeling and Severity of Chronic Obstructive Pulmonary Disease. \$40,000 direct	2007 - 2008
University of California at Los Angeles /NIOSH ERC Pilot Project Grant PI, Advisor to Jerry Poplin, Project: Injuries among the Tucson Firefighting Population: Identifying Root Causes and Areas for Intervention. \$20,072	2007
University of California at Los Angeles /NIOSH ERC Pilot Project Grant PI, Advisor to Jennifer Currie, Project: Does rapid lung function decline in firefighters predict respiratory morbidity during their retirement? \$20,065	2007
Arizona Department of Health Services PI, Project: Training Workshop for AZ Public Health Preparedness. \$40,000	2008 - 2009
Science Foundation of Arizona	2009 - 2013

(PI: Poulton) Co-PI, Project: Sustainable Development of Critical Earth Materials.
\$17,700,000 (total from combined state and industry funds)

The Japan-United States Educational Commission Fulbright research grant 2010
PI, Project: Comparison of Firefighter Work Practices and Injury Rates in Japan and the U.S.
¥4,864,440 (yen)

Alpha Foundation for the Improvement of Mine Safety and Health 2013 - 2015
PI, Project: Implementation of Risk Management Programs: Identification of Best Practices to
Reduce Injuries and Maximize Economic Benefits. \$669,208

Fulbright Schuman European Union Award 2016
PI, The purpose of this project was to conduct policy-related research on health and safety
programs for the fire service. €20,000 (euros)

International Association of Fire Fighters 2018 - 2019
PI, Project: Analysis of Fire Fighter Blood Specimens for Per- and Polyfluoroalkyl Substances
(PFAS). \$70,560

Bureau Veritas North America (BVNA) 2020 – 2021
Funding source: National Institute for Occupational Safety and Health
Subcontract PI, Project: Epigenetic Evaluation of WUI Firefighters. \$380,478

Arizona Board of Regents 2023 – 2026
PI, Project: Interventions to Reduce Firefighter Cancer and Cardiovascular Risks. \$3,896,726

Wildfire Conservancy/CAL FIRE 2023 – 2025
PI, Subcontract: Enhancing Wildland Firefighting and Firefighter Health and Safety. \$400,000

*This is a true and accurate statement of my activities and accomplishments. I understand that
misrepresentation in securing promotion and tenure may lead to dismissal or suspension under
ABOR Policy 6-201 J.I.b.*

Signature: _____

Date: _____