Kelly Reynolds, MSPH, PhD
Program Director, Environmental Health Sciences
Department Chair, Community, Environment and Policy
Professor | reynolds@email.arizona.edu

- Uses quantitative microbial risk assessment to model the health effects of microorganisms and exposures from surfaces, water and food
- Implements field studies to track transmission potentials of microbes in households, offices, schools and hospitals
- Collaborates with stakeholders from government, academia, and industry using a team science approach to infection prevention
- Works with a variety of healthcare facilities to reduce healthcare acquired infections and prevent waterborne Legionella outbreaks
- Develops methods for real-time monitoring of microbial contaminants in the environment using smartphone optics

Paloma Beamer, PhD
Associate Professor | pbeamer@email.arizona.edu

- Exposure science and risk assessment, including collection and analysis of exposure factors and modeling
- Environmental health disparities focused on children, Indigenous communities, low-wage immigrant workers and those in the US-Mexico region
- Assessing the role of environmental risk factors in development of respiratory disease

Jeff Burgess, MD, MS, MPH
Professor and Associate Dean for Research | jburgess@email.arizona.edu

- Health effects and mitigation of toxic exposures
- Firefighter and mining health and safety
- Risk management and emergency preparedness
- Indigenous environmental health disparities
Robert Canales, PhD
Assistant Professor | rcanales@email.arizona.edu
- Applies computational methods to create multimedia exposure and risk models
- Translates systems science and mathematical concepts to environmental health applications

Stephanie Griffin, PhD, CIH
Assistant Professor | scgriffin@email.arizona.edu
- Industrial Hygiene and Environmental Health exposure assessment (thermal stress, noise and chemicals)
- Cancer prevention and chemical exposure assessment in the fire service
- Risk management implementation and evaluation in mining and the fire service
- Health economic evaluation of health and safety interventions

Phil Harber, MD, MPH
Professor | pharber@email.arizona.edu
- Occupational-environmental lung disease, respiratory protection, human physiology
- Occupational health services: Quality and policy
- Health informatics: Quantitative decision analysis, natural language processing, social media research, clinical decision support systems (CDS)
- Director, Occupational Health Office, and Medical Director, Occupational Health

Mary Kay O’Rourke, PhD
Professor | mkor@email.arizona.edu
- Measures and models contaminant in the environment, assesses exposure to individuals and populations and links to biomarkers or disease outcomes
- Expertise: Exposure Science with a focus on particulate and arsenic, Indoor Air Quality (IAQ), Geospatial relationships, Climate change
- Contaminants of interest: Arsenic, Particulate Matter, Pollen, Fungi, Valley Fever, Ozone, House-dust mites, Metals and Pesticide
- Diseases of interest: Respiratory Disease (Asthma and Allergy)

Boris Reiss, PhD, CIH
Assistant Professor | reissb@email.arizona.edu
- Exposure assessment (statistical, chemical, biological, physical, data based)
- Method development (soft and hardware)
- Using hair as a biomarker of environmental and occupational exposure
- Real-time monitoring of stress
- Calibration i.e. particle monitors
Marc Verhougstraete, PhD
Assistant Professor | mverhougstraete@email.arizona.edu

- Explores the connections between microorganisms and their environment
- Examines the sources, fate, and transport of microorganisms through indoor environments, water, and food
- Looking at the connection between drinking water quality and climate change to enhance water treatment protection in the southwest
- Using Quantitative Microbial Risk Assessment to define beach safety and reduce the occurrence of hospital acquired infections
- Collaborative research as a member of the Environmental, Exposure Science, and Risk Assessment Center