July 1, 2019 – June 2020

PUBLICATIONS, PRESENTATIONS, FUNDED GRANT APPLICATIONS

PRESENTATIONS

Proceedings of the NIOSH ERC Pilot Projects Research Symposium, June 19, 2020

Alcauter, Bethany, Heat stress and Kidney Function Among Immigrant Construction Workers in Texas

Dalwadi, Shraddha, Defining Occupational Ionizing Radiation Exposure with Low Dose Rate Brachytherapy for Prostate Cancer

Harrison, Whitney, Houston Union Firefighters’ Perception of Cancer Risk and other Health Outcomes

Kollock, Roger, Fit-for-Duty: A Preliminary Analysis of the Predictive Value of the Physical Abilities Test (PAT) for Work-related Casualty

Molsberry, Rebecca, Leveraging Personal Technology to Intervene on Continuous Occupational Stress Among Law Enforcement Officers

Oyer-Peterson, Kelly, Exposure to Environmental and Occupational Health Hazards among Vulnerable Domestic Cleaners in San Antonio

Xiang, Yujiang, Model-based Ergonomic Design for Collaborative Lifting

July 21, 2018 – June 2019

PUBLICATIONS, PRESENTATIONS, FUNDED GRANT APPLICATIONS

PUBLICATIONS


PRESENTATIONS

McDermott, Brendon

Backes et al. Poster: Renal stress and plasma volume in response to work in the heat following different hydration regimens central states ACSM (October, 2019)

Waymire et al. Poster: Physiological and perceptual stress compared between hydration beverages during and following work in the heat

McDermott, BP, virtual recorded symposium: Renal function and predisposing conditions for acute injuries in the ultra-endurance sport context ACSM annual meeting (virtual July, 2020)

Backes et al., virtual poster: Renal stress responses to work in the heat comparing different hydration regimens

Proceedings of the NIOSH ERC Pilot Projects Research Symposium, June 19, 2019

Azoug, Aurelie, Mitigating posture changes and risks of falling in standing pregnant workers

Chang, Cheng-Yen, The role of nano-particulated carbon black in lung cancer development

Ibarra-Mejia, Gabriel, Exploring Molecular Changes and Inflammatory Cytokines

McDermott, Brendon, The Effect of Sugar-Sweetened Electrolyte Beverages on Biomarkers of Hydration and Renal Stress During and Following Industrial Work in the Heat

Perkison, William Brett, The Hurricane Harvey Outreach Protection Plan Worker and Resident Survey

Rodriguez, Anabel, Tuberculosis Among Dairy Workers in Bailey County, Texas

July 1, 2017 – June 30, 2018

PUBLICATIONS, PRESENTATIONS, FUNDED GRANT APPLICATIONS

PUBLICATIONS:


PRESENTATIONS:


July 1, 2016 – June 30, 2017

PUBLICATIONS, PRESENTATIONS, FUNDED GRANT APPLICATIONS
PUBLICATIONS:


Conway SH, Pompeii LA, Gimeno D, Follis J, Roberts RE. Identifying a Work Hours Threshold for Predicting Risks of Adverse Health Outcomes. American Journal of Epidemiology. Accepted for publication: August 2016.


PRESENTATIONS:


FUNDED GRANT APPLICATIONS:

PI: Zhang, Kai
R03 - NIOSH
Assessing Heat-Related Morbidity among Migrant and Seasonal Farmworkers
Status: Funded

Proceedings of the NIOSH ERC Pilot Projects Research Symposium, June 2, 2017

Ahn, Joonhyun, Global Climate Change and Heat Stress in the United States

Gallagher, Kaitlin, Using Walking Breaks to Reduce the Biomechanical and Cardiometabolic Risk Factors Related to Prolonged Occupational Standing

Hur, Pilwon, Enhancing Balance of the Aged Workers Via Sensory Augmentation Toward the Reduction of Injuries Due to Falls

Jones, Raymond for Sirikul, Bovorn, Physiological Strain Incurred During Simulated Fishing Work in a Hot and Humid Environment
Mutambudzi, Miriam, Use of O*NET Job Characteristics to Prospectively Examine Job Strain as a Risk Factor for Incident Diabetes in Older US Workers

Patel, Jenil, Work Related Asthma Among Certified Nurse Aides in Texas

Whitworth, Kristina, Occupational and Environmental Hazards of Domestic Cleaners in San Antonio, TX

July 1, 2015 – June 30, 2016

PUBLICATIONS, PRESENTATIONS, FUNDED GRANT APPLICATIONS

PUBLICATIONS:


Thompson, B.J., Stock, M.S., †Banuelas, V.K., and †Akalonu, C. The impact of a rigorous multiple work shift schedule and day vs night shift work on reaction time and balance performance in female nurses: A repeated measures study. Journal of Occupational and Environmental Medicine (In press)


PRESENTATIONS:


Jayadas, Aditya. Empathic & Co-Design: Redesign of Duty Belts for Police Officers

Pickens, Adam. Optimization of Hardware for Optimal Data Collection Using a Mobile Hearing Screening Application (hEAR)

Wang, Jun. Representativeness of Chamber Sampling in Occupational Metal Fume Exposure Assessment

July 1, 2014 – June 30, 2015

PUBLICATIONS, PRESENTATIONS, FUNDED GRANT APPLICATIONS

PUBLICATIONS:


Book Chapter (Not yet reported):

PRESENTATIONS:


Conway SH. 2014. How Panel Survey Income Data Can Be Utilized to Examine the Health of Workers in the U.S. University of Texas Health Sciences Center, Division of Environmental and Occupational Health Sciences, Research Seminar, September 2014.


Wang Q. Evacuation Simulations of Confined Spaces in Petrochemical Facilities

Thompson B. The Effects of Demanding Work Schedule Characteristics on Fatigue and Performance Capacities in Female Healthcare Workers: Injury Risk Profiling Assessment

Wang H., Engel A. Mutagenic Effects of Oil Spill Chemicals on Human Airway Epithelial Cells

Brooks E. Calcium Channel Activation by Polyaromatic Hydrocarbons

Zhang K. Heat and Health: Developing Heat Vulnerability Indicators for Migrant and Seasonal Farmworkers in California as a Prototype for Texas

Conway S. Health Effects of Long Working Hours

GRANT APPLICATIONS:

PI: David Douphrate, PhD, MPT, MBA, CPE
U01 UTHSC-Tyler/CDC
Development of Safety Management and Leadership Training Program for Logging Contractors

Updated 07/23/2020
July 1, 2013 – June 30, 2014

PUBLICATIONS, PRESENTATIONS, FUNDED GRANT APPLICATIONS

PUBLICATIONS:


PRESENTATIONS:


*Proceedings of the NIOSH ERC Pilot Projects Research Symposium, June 20, 2014.*

Hawrylak, P. Tracking Adult Vaccination History Using RFID Tags.

Yang, J. Biomechanical Model for Assessing Injury Risks in Mining.

Campos, A. Predictors of Musculoskeletal Symptoms among Office Workers in Costa Rica based on the CUPID Study and Comparison with other Spanish-speaking Countries.

Lee, L. The Linkage of the National Birth Defects Prevention Study and the Occupational Information Network.

**FUNDED GRANT APPLICATIONS**

PI: David Corry, MD*  
VA Merit  
Carbon Black Induced Activation of Lung APCs  
07/01/2013 – 06/30/2017

Status: Funded

*Findings from previous awardee’s pilot project (Ming Shan/Ran You) were used to support the grant application. Dr. Corry is a Professor at Baylor College of Medicine.

July 1, 2012 – June 30, 2013

**PUBLICATIONS, PRESENTATIONS, FUNDED GRANT APPLICATIONS**

**PUBLICATIONS:**


Book chapter:


Conference abstract:


**PRESENTATIONS:**


Engineering and Construction, Ft. Worth, TX, November 2012.


Proceedings of the NIOSH ERC Pilot Projects Research Symposium, June 28, 2013

Lewis, P. Prevention through Design (PtD) to Improve the Design of Construction Processes.

Saito, R. Unintentional Exposures to Antibiotics in Healthcare Environments: Air Sampling and Analysis.


Bae, S. Quantitative Microbial Risk Assessment of Airborne Microorganisms in Retail Stores.

Khurshid, S. Reactive Oxygen Species (ROS) on Respirable Particles in Institutional and Commercial Buildings.

Mehta, R. Influence of Workplace Stress and Personal Factors on Musculoskeletal Disorders.

Han, I. Analytical Method Development and Validation of Personal Air Sampler for Alkylaniline Exposure Assessment

FUNDED GRANT APPLICATIONS:

PI: Kim Waller, PhD* 09/01/2012 – 08/31/2014
CDC/NIOSH
Parental Exposure to Ionizing Radiation and Birth Defects
Status: Funded
*Findings from previous awardee’s pilot project (Hyeyeun Lim) were used to support the grant application. Dr. Waller is Ms. Lim’s mentor.

PI: X. Neil Dong, PhD 09/01/2012 – 05/30/2013
The University of Texas at Tyler
Rehabilitation strategies to overcome quadriceps weakness for athletes with anterior cruciate ligament (ACL) reconstruction
Status: Funded

July 1, 2011 – June 30, 2012

PUBLICATIONS, PRESENTATIONS, FUNDED GRANT APPLICATIONS
PUBLICATIONS:


PRESENTATIONS:


Socias, C. Assessing the Impact of Loss to Follow-up in a Cohort Study of South Texas Adolescent Farmworkers: Implications for Planning a Cohort Study. Seminar, Epidemiology Seminar (PHD 2990) from the University of Texas School of Public Health, Houston, TX, September 22, 2011.

Proceedings of the NIOSH ERC Pilot Projects Research Symposium, June 29, 2012

Dong, XN. Development of a Portable EMG-based Biofeedback System to Alleviate Chronic Neck Pain of Computer Workers.

Williams, ES. The Relevance of Coal Tar-Based Asphalt Sealants to Workplace Exposures to Polycyclic Aromatic Hydrocarbons.

You, R. Carbon-Induced Immune Cell Activation and Emphysema.

Montano, C. The Association between Mental Disorders and Occupational Injuries among a Cohort of Employees from a Large Oilfield Services Corporation.

Lim, H. Parental Exposures to Occupational and Medical Sources of Ionizing Radiation and Risk of Selected Structural Birth Defects