Wednesday, June 21, 2017

8:00am – 8:30am: Registration

8:30am – 8:45am: Welcome - John Howard, NIOSH Director
Lee Newman, Director, Center for Health, Work & Environment

8:45am – 9:45am: The Third Decade of NORA (Moderator: Margaret Kitt)
8:45am - Review of the 2nd Decade – Sarah Felknor
9:05am - Moving forward with the Third Decade – Lore Jackson Lee
9:25am - The BNI approach – Paul Schulte

9:45am – 10:00am: Break

10:00am – 11:30am: Plenary Session (Moderator: Sarah Felknor)

10:00am Jennifer Marcum: Leveraging industrial and unemployment insurance data to target at-risk construction firms, Washington State
10:20am Megan Casey: Silicosis prevalence among Medicare beneficiaries, 1999–2014
10:40am Linda McCauley: Dehydration status and heat related symptoms in Florida farmworkers
11:00am Jennifer M. Lincoln: Improving PFD use among commercial fishermen: using partnerships to effect change

11:30am – 1:00pm: Lunch/Networking Session
Food trucks and local venues - on your own

1:00pm – 2:00pm: Ignite Rapid Presentations (Moderator: Lee Newman)

1:00pm Amy Darragh: Virtual simulation training system (VSTS)
1:10pm June Spector: Heat exposure, injury risk, and productivity in agricultural workers
1:20pm Linda Sargent: Dose response of multi-walled carbon nanotube (MWCNT)-induced lung tumors
1:30pm Garrett Burnett: Lean and Broke: What we learned partnering on a national challenge with no money and no time
1:40pm Carisa Harris Adamson: Personal, psychosocial, and biomechanical risk factors for work disability from carpal tunnel syndrome: Findings from the NIOSH Consortium Studies
1:50pm Ellen Duysen: Using trusted research facilitators to assess tribal bison worker hazards

2:00 – 3:30: Concurrent Session 1
Session A – World Trade Center (Moderator: Allen Robison)  Room TBD

2:00pm  James E. Cone: Ten-year cancer incidence in rescue and recovery workers and survivors of the World Trade Center disaster
2:50pm  Mayris P. Webber: Maintenance and extension of a cohort of career firefighters as a non-WTC exposed comparison for the FDNY Firefighter Cohort

Session B – Transportation, Warehousing, Utilities (Moderator: Dawn Castillo)  Room TBD

2:00pm  Jennifer E Lincoln: A pilot study of healthy living options at 16 truck stops across the United States
2:25pm  Guang Chen: Opinions on safety and its influence on driving behaviors: results from NIOSH national survey of U.S. long-haul truck driver health and injury
2:50pm  Christopher Drucker: Detecting emergency vehicles: The use of in-vehicle driver support systems to improve transportation safety

Session C – Manufacturing (Moderator: Stephen Reynolds)  Room TBD

2:00pm  Thais C. Morata: Promoting the implementation of evidence-based occupational safety and health practices in the manufacturing industry
2:25pm  Christine R. Schuler: Effects of exposure, solubility and genetic factors on sensitization and chronic beryllium disease among short-term beryllium workers
2:50pm  Tim Bushnell: The contributions of occupational safety and health to organizational productivity and environmental goals

Session D – Total Worker Health (Moderator: Anita Schill)  Room TBD

2:00pm  Laura Punnett: Building labor-management partnerships for Total Worker Health in public sector healthcare facilities
2:25pm  Laura Punnett: HearWell: A Total Worker Health™ approach to hearing conservation among transportation workers
2:50pm  Glorian Sorensen: A Conceptual model to guide Total Worker Health® research and interventions

3:30pm – 3:45pm: Break

3:45pm – 5:15pm: Concurrent Session 2

Session E – Economic Burden (Moderator: John Piacentino)  Room TBD

3:45pm  Regina Pana-Cryan: The economic burden of occupational illness
4:10pm  Abay Asfaw: Impact of Nonstandard Work Arrangements on Earnings and Fringe Benefits: Evidence from the 2010 and 2015 National Health Interview Surveys
4:35pm Steve Wurzelbacher: Maximizing the use of workers’ compensation systems to improve safety through partnerships

**Session F – Agriculture, Forestry, Fishing** (Moderator: Jeff Levine)  
Room TBD

3:45pm Chandran Achutan: Attitude Changes in Farmers following a point-source hearing protection intervention  
4:10pm Carolyn Reeb-Whitaker: Respiratory disease awareness and prevention in the US hop harvest industry  
4:35pm Stephen Reynolds: Dairy bioaerosol exposures and inflammatory markers in workers: A panel study

**Session G – Construction** (Moderator: Christine Branche)  
Room TBD

3:45pm Ann Marie Dale: Promoting musculoskeletal disorder prevention efforts within a construction safety management program  
4:10pm Mary Kathryn (MK) Fletcher: Partnering for hearing loss prevention in construction  
4:35pm Emily J. Haas: Use of video exposure monitoring to increase worker proactive dust control practices: Evaluation of five worksite interventions

**Session H – Healthy Work Design** (Moderator: Paul Schulte)  
Room TBD

3:45pm Mojtaba Yazdani: Improvement of human safety in fault-tolerant human and robot collaboration using convex optimization and receding horizon control  
4:10pm Chia-Chia Chang: A conceptual and measurement model for worker well-being  

**6:30pm: Social (Food and beverage available for purchase)**
Thursday, June 22, 2017

8:30am – 10:00am: Plenary Session – Early Career Scientist (Moderator: Dave Christiani)

8:30am Sophia Chiu: Respiratory and ocular symptoms among employees at an indoor waterpark resort — Ohio, 2016
8:50am Jaime Butler-Dawson: A longitudinal evaluation of kidney function among sugarcane workers in Guatemala
9:10am Feng-Chiao Su: Mixed exposures to cleaning and disinfecting chemicals among healthcare workers
9:30am Kathleen Attfield: Collaboration between NIOSH and California Department of Public Health to investigate occupational exposures in e-cigarette vape shops

10:10am – 11:40am: Concurrent Session 3

Session I – State Surveillance (Moderator: Doug Trout)

10:10am Rebecca Jackson: State-based surveillance and public health practice: Overcoming challenges to using California workers’ compensation claims data for public health surveillance
10:35am Terry Bunn: State based-surveillance and public health practice: Integration of the Kentucky Occupational Safety and Health Surveillance Program into state drug abuse prevention efforts
11:00am Kenneth Rosenman: State-based surveillance and public health practice: Michigan Hospital and emergency department surveillance system

Session J – Home Health Care and Hospital Workers (Moderator: Linda McCauley)

10:10am Barbara Polivka: Virtual simulation training in home healthcare
10:35am Ryan Olson: Total Worker Health intervention for home care workers: Research, translation, and dissemination of the COMPASS program
11:00am Steven A. Lavender: Hospital patient room ergonomics: Getting it right for all hospital staff working in these spaces

Session K – Personal Protective Equipment (Moderator: Jon Szalajda)

10:10am Zhipeng Lei: Development of computational methods for evaluating loose-fitting powered air-purifying respirators
10:35am Bingbing Wu: Evaluating a novel respirator seal integrity monitor for controlling inhalation exposure of firefighters
11:00am Lee Portnoff: A test for liquid penetration through protective fabric using fluorescent dye under a dynamic hydrostatic pressure regime

Session L – Respiratory Health (Moderator: David Weissman)
2017 Expanding Research Partnerships: 
State of the Science

10:10am Kathleen Clark: Implementation of a national spirometry facility network for the Coal Workers’ Health Surveillance Program (CWHSP)
10:35am Joshua Schaeffer: Task-based exposures to airborne endotoxins and β-Glucans among dairy workers
11:00am Jongeun Rhee: Occupational exposures and the acute respiratory distress syndrome (ARDS)

11:40am – 1:00pm: Lunch/Topic Tables  
Jason’s Deli Box Lunches (pre-ordered) or local venues  
Topic table information will be available at registration

1:15pm – 2:45pm: Poster Session  
Room TBD

P1 Hong Kan: Occupational nanoparticle exposure: toxicity beyond the lung
P2 Mohammad Shoeb: Altered expression of telomere maintenance genes in lung tissue of rats after silica inhalation
P3 Kari Mendelsohn-Victor: Evaluating oncology nurses’ safety when handling hazardous drugs: Case report analysis from a multi-site study
P4 Alexander Wu: Airplane pilot mental health and suicidal thoughts: A cross-sectional descriptive study via anonymous web-based survey
P5 Deborah Reed: Using theater to influence work behaviors of older agricultural workers through community partnerships
P6 Rafael Y. Lefkowitz: Risk factors for injury and illness in seafarers
P7 Vy Nguyen: Neurodegenerative mortality among major league baseball players
P8 Charles B. Hall: Incidence, latency, and survival of cancer following WTC exposure
P9 T. Renée Anthony: Improving air quality in swine farrowing operations: Results of engineering interventions
P10 Bethany Lowndes: Surgical assistants at risk of musculoskeletal injury and illness in the operating room: A pilot study to measure exposure
P12 Jenna Gibbs: Personal attenuation ratings (PAR) of agricultural workers: How well do earplugs really fit?
P13 Hali Neves: ATV operation in agriculture: Injury analysis and interventions
P14 Andrea D. Branch: Higher prevalence of liver steatosis (non-alcoholic fatty liver disease) in members of the World Trade Center Health Program General Responder Cohort than in non-responders
P15 Andrew Ryan: Work requirement factors and workplace injuries among the aging American workforce
P16 Eloise Zimbelman: Hazards in motion: development of mobile geofences for use in logging safety
P17 Kang Namkoong: Virtual reality and occupational safety: Exploring the potential of virtual reality technology in agricultural safety education
P18 Desta Fekedulegn: Actigraphy-based assessment of circadian rhythm: Association with subclinical CVD measures among police officers
P19 Jamie L. Lancaster: Law enforcement officer motor vehicle crash and struck-by fatality investigations
P20 Aitor Coca: Critical Wet Bulb Globe Temperature (WBGTcrit) for four protective clothing ensembles made of fabrics with different total heat loss (THL) values
P21 Laura Kincl: Partnerships in fishing industry safety: The FLIPP engaged research approach
P22 Murrey E. Loflin: Evaluating and testing fire hose performance during structural firefighting operations
2017 Expanding Research Partnerships:
State of the Science

P23  Emily Hurwit: World Trade Center Health Program continuing education trainings – expanding partnerships, advancing knowledge, and impacting health professional behavior
P24  James P. O’Callaghan: Prior exposure to corticosterone markedly enhances and prolongs the response to work-place-related chemical and biological exposures
P25  Deborah Sammons: The role of the field analysis and sampling group in expanding research partnerships
P26  Jean M. Cox-Ganser: Spectrum of health outcomes among flavoring-exposed workers: A comparison of the microwave popcorn and flavoring industries
P27  Matthew Groenewold: Estimating new cases of occupational injuries and illnesses in the United States in 2012
P28  Jeffrey L. Levin: Commercial fishing safety in the Gulf of Mexico and the Southwest Ag Center: The decade in review
P29  Brie Hawley: Respiratory symptoms in hospital cleaning staff exposed to a product containing hydrogen peroxide, peracetic acid, and acetic acid
P30  Andrew Palmiero: Speech intelligibility assessment of protective facemasks and air-purifying respirators

2:45pm – 4:00pm: Concurrent Session 4

Session M – Exposure Assessment  (Moderator: Max Kiefer)  
2:45pm  Andrew Castano: An evaluation of the collection characteristics and usability factors of three nanoparticle samplers
3:10pm  Emily H. Sparer: Assessment of ambient exposures firefighters encounter while at the fire station: An exploratory study
3:35pm  Ninica L. Howard: Comparison of exposures to WMSD risk factors in high and low workers’ compensation rate companies in Washington State

Session N – Musculoskeletal Disorders  (Moderator: Jessica Ramsey)  
2:45pm  Jay Kapellusch: The revised strain index - A DUE physical exposure model for complex jobs with job rotation
3:10pm  Bradley A. Evanoff: Personal and workplace factors for carpal tunnel syndrome: Findings from the NIOSH Consortium Studies
3:35pm  Ming-Lun Lu: Work-related psychosocial risk factors for low back pain: Evidence from 2015 NHIS data

Session O – Extractive Industries  (Moderator: Jessica Kogel)  
2:45pm  Bon Ki Ku: Lab-on-a-chip device for on-site biomonitoring of workers exposed to respirable silica aerosol
3:10pm  Ann Backus: FrackMap: Building a geo-spatially based nexus of research publications and perceptions regarding hydraulic fracturing to provide researchers, health professionals and the community access to information about the health risks and impacts of hydraulic fracturing
3:35pm  Steven Mischler: The personal dust monitor: A partnership success story

Session P - OSH In Motion  (Moderator: John Adgate)  
2:45pm – 4:00pm: Concurrent Session 4

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2:45pm  R. Reid Harvey: Partnership between the National Institute for Occupational Safety and Health (NIOSH) and an indium-tin oxide (ITO) company to prevent indium lung disease
3:10pm  Julie Sorensen: Implementation Science: What is it and what do we know about successfully translating OSH solutions into worker practice?
3:35pm  Jenny Tsai: Understanding community infrastructure and capacity to engage community agencies in advancing occupational health disparities research

4:00pm – 4:15pm: Break

4:15pm – 5:00pm: Plenary Session (Moderator: Margaret Kitt)  Room TBD
4:15pm  Barbara M. Alexander: Research partnerships in development of an engineering control for respirable crystalline silica
4:35pm  Jessica Bunting: A partner coordinated campaign to prevent falls in construction: Historical review & analysis of reach

5:00pm: Closing Remarks

Friday, June 23, 2017

8:30am - 10:00am  Extramural research in NORA 3 (Open session)  Room TBD
10:00am – 12:00pm  Center Grantee Meeting (Closed session)  Room TBD