

SHALE DRILLING

— AND —

PUBLIC HEALTH:

DAYS OF DISCOVERY

October 26-27, 2014

University Club

Hosted by the University of Pittsburgh Graduate School of Public Health



A presentation of the
League of Women Voters of Pennsylvania

With funding from the
Colcom Foundation

to LWVPA Citizen Education Fund "Straight Scoop on Shale"

LIST OF EXHIBITORS

Sunday Oct. 26 5 p.m. – 6 p.m. Ballroom B Environmental Amendment Reception

Monday Oct. 27 – Conference Room A Third Floor, 5 p.m. – 6 p.m.

- **Book-signing – Franklin Kury, *Clean Streams, Clean Politics***
- **Allegheny County Health Department**
- **Article 1 Section 27 poster (League of Women Voters)**
- **Assemble/The Drop Project, Chatham School of Sustainability – Youth banners**
- **FracTracker Alliance – GPS well data, truck-counting project**
- **Gas Rush Stories – Kirsi Jansa film; legal commentary by Joe Osborne, Esq. , GASP**
- **Izaak Walton League – Water testing**
- **Nick Kennedy Esq., Mtn. Watershed Assoc. – legal commentary Article I, Section 27**
- **Protect Our Children – Parents’ coalition to protect the school environment**
- **SWPA-Environmental Health Project – Air and water monitors, health info**
- **WREN – Water Resources Education Network (LWVPA)**
- **and others**

INFORMATION ABOUT SHALE GAS EXTRACTION PROCESSES

- **LWV Straight Scoop Storybox interactive listening devices “Shale from the Ground to the Consumer” and “Pipelines”**

All attendees will receive copies of the League of Women Voters of Pennsylvania's 2014 updated "Shale Gas Extraction and Public Health" Resource Guide

SPEAKER BIOGRAPHIES

Susan Carty was elected President of the League of Women Voters of Pennsylvania in June 2013. She is also the president of the LWV Chester County, previously serving as LWVCC's education committee chair. She joined the League in 2009.

Ms. Carty has been an insurance underwriter for Prudential. She was also a science teacher in the West Chester Area school district, and a NOAA Teacher-at-Sea in the Pacific. She is the co-author of a science lab instruction manual for Pfizer Corporation. She holds a B.A. from Immaculata College.

Her public service includes serving on the WCASD School Board (2006-2009), as Chair of the East Goshen Township Planning Commission (2002-present) and on the Chester County Regional Planning Commission (2005-2007).

John C. Dernbach Esq. is Distinguished Professor of Law at Widener University in Harrisburg, Pennsylvania and co-director of Widener's Law Center. Professor Dernbach has written on sustainable development, climate change, and other topics in more than 40 articles for law reviews and peer-reviewed journals, and has authored, coauthored, or contributed chapters to more than 20 books. He wrote a two-part article and a book chapter that were cited by the Pennsylvania Supreme Court in its landmark decision in *Robinson Township v. Commonwealth of Pennsylvania* (Dec. 19, 2013).

Professor Dernbach leads the only national project that comprehensively assesses U.S. sustainable development efforts and makes recommendations for future efforts. As part of that project, he is the principal author of *Acting as if Tomorrow Matters: Accelerating the Transition to Sustainability* (Environmental Law Institute Press 2012).

Before taking his teaching position at Widener, Professor Dernbach worked in a variety of positions at the Pennsylvania Department of Environmental Resources. More recently, he served as policy director at the Pennsylvania Department of Environmental Protection. Professor Dernbach graduated from the University of Wisconsin-Eau Claire, and from the University of Michigan Law School, where he was a member of the editorial board of the *Journal of Law Reform*.

Bernard D. Goldstein M.D. is emeritus Dean and Professor at the University of Pittsburgh Graduate School of Public Health. He is a physician, board-certified in Internal Medicine, Hematology and in Toxicology. His past experience includes service as EPA Assistant Administrator for Research and Development; Founding Director of the Environmental and Occupational Health Sciences Institute at Rutgers University; and President of the Society for Risk Analysis. Dr. Goldstein is author of over 150 publications in the peer-reviewed literature, as well as numerous reviews related to environmental health. He is an elected member of the National Academies of Science Institute of Medicine (IOM), for whom he has chaired and served on numerous committees.

Karen Hacker M.D., M.P.H. is Director of the Allegheny County Health Department.

Prior to her appointment here, Dr. Hacker was Executive Director of the Institute for Community Health, a community research organization within the Cambridge Health Alliance (CHA). She also served as an Associate Professor in Medicine at Harvard Medical School and School of Public Health, and was the Senior Medical Director for Public and Community Health at CHA.

Dr. Hacker received her undergraduate degree from Yale University, her MD from Northwestern University and her MPH from Boston University. She has extensive experience working with diverse populations as a public health leader, health care administrator, primary care physician and community based participatory researcher.

Throughout her career, Dr. Hacker has worked with community partners to catalyze change in both practice and research environments. She previously served as interim Chief Public Officer for the City of Cambridge and the Division Director for Child and Adolescent Health at the Boston Public Health Commission.

Dr. Hacker's research has been responsive to community needs, with interests focused on adolescent risk and resiliency, child mental health and the social determinants of immigrant health. She has led efforts to incorporate behavioral health screening into pediatric primary care and worked with communities on issues of substance abuse and overdose prevention and youth suicide. More recently, she has been involved in the evaluation of the transformation of safety net institutions into accountable care organizations.

As Director, Dr. Hacker is the highest ranking official in the Health Department and is responsible for overseeing its programs and activities. She also serves as Secretary to the Allegheny County Board of Health.

The Hon. Franklin L. Kury, Esq. served in the Pennsylvania House of Representatives and State Senate from 1966 through 1980 as a leader in the enactment of governmental reform and environmental protection legislation such as the Clean Streams Act, that are seen as the culmination of the environmental revolution that marked the end of the exploitation of the state's natural resources by the coal, steel and railroad industries. He authored and was the lead advocate for what became Pennsylvania's "Environmental Amendment", Article 1 Section 27 of the Pennsylvania Constitution, which reads in part "The people have a right to clean air, pure water, and to the preservation of the natural, scenic, historic, and esthetic values of the environment." Pennsylvania is only one of three states to formally enshrine its citizens' environmental rights in its constitution or bill of rights. The amendment, which makes state government the trustee of the public natural resources, passed unanimously with support from both sides of the aisle and approved 4-1 by Pennsylvania Voters.

In the Pennsylvania State Senate, where he became a leader in government reform, Kury chaired the special committee that reformed the process for Senate confirmation of gubernatorial nominations and the committee that modernized the Public Utility Commission and created a consumer advocate. Kury also led a six-year struggle that resulted in the enactment of the state's flood plain and storm water management laws. He retired voluntarily from the Senate in 1980 and turned to full-time law practice.

As a lawyer with Reed Smith, a major law firm headquartered in Pittsburgh, and with Malady & Wooten, one of Harrisburg's premier government affairs firms, he has advised clients on state government issues and advocates on their behalf. His memoir, "Clean Politics, Clean Streams: A Legislative Autobiography" was published in 2011 by Lehigh University Press.

Kury graduated from Trinity College (Hartford, CT) and the University of Pennsylvania Law School.

Celia Lewis, MS.ED, Ph.D. received her MS from Bank Street College of Education and her PhD in Environmental Studies from Antioch University. Dr. Lewis has extensive experience in environmental conservation, education and public health. She has conducted biological inventories for the Connecticut Department of Energy and Environmental Protection and for the Yale School of Forestry and Environmental Studies Center for Coastal and Watershed Systems, and served as Assistant Head of Public Education at Yale Peabody Museum of Natural History. Most recently she conducted fieldwork and analysis of the risks of indoor wood smoke to public health, and analyzed research on the potential risks of common chemical pesticides to public health. She is a research and communications consultant to the SWPA-Environmental Health project. Along with Beth Weinberger she has formed consulting firm Thimble Creek Research, specializing in environmental health.

Michael McCawley Ph.D. is the interim chair of WVU's Department of Occupational and Environmental Health Sciences in the WVU School of Public Health. He has a doctorate in Environmental Health from the Department of Environmental Medicine at New York University and a Master's degree in Engineering from the Department of Civil and Environmental Engineering at West Virginia University. From 1974 to 2002 he worked for the US Centers for Disease Control and Prevention's National Institute for Occupational Safety and Health (CDC/NIOSH) where he was responsible for designing and implementing health assessment protocols and, after 2002, as a consultant, for federal government agencies as well as for numerous private industries. While at NIOSH he worked on projects involving dust exposures in communities following the eruption of Mt. St. Helen's, exposure to smoke from the oil fires in Kuwait, the carcinogenicity of silica in industries in China, exposure to diesel particulate and its subsequent health effects for underground miners in the United States and on ways to prevent chronic beryllium disease, especially in nuclear weapons workers. He has also been on the faculty of West Virginia University in the Department of Civil and Environmental Engineering from 1980 to 2008, in the Department of Community Medicine from 2008 to 2012 and in the School of Public Health since its inception in 2012. His work in West Virginia communities, most recently, has involved community action related to mountaintop mining health consequences, unconventional resource development operations and general community lifestyle evaluation and intervention. He is the author of over 50 peer reviewed publication, and has been awarded the US Public Health Service's Commendation Medal, two Unit Citation Medals and a Foreign Service Medal as well the American Industrial Hygiene Association's David L. Swift award for Outstanding Aerosol Paper of the year, and the NIOSH Alice Hamilton Award for Engineering and Physical Sciences research.

Lisa McKenzie Ph.D. M.P.H. is an Assistant Research Professor at the Colorado School of Public Health (CSPH) on the University of Colorado Denver's Anschutz Medical Campus. She holds a B.A. in Chemistry from the University of Colorado, an MPH in Epidemiology from the CSPH, and a Ph.D. in Environmental Chemistry from the University of Montana. Dr. McKenzie's research has contributed to the understanding of how air pollutants and other exposures resulting from the unconventional development of petroleum resources may affect the health of people living in areas with the development. She has testified before the United States Congress and the Denver Metropolitan Regional Air Quality Council on the public health implications of natural gas development. Dr. McKenzie teaches graduate level and undergraduate level courses in risk assessment and environmental health. She began her career as an analytical chemist with the Environmental Protection Agency and worked for many years in the private sector as a human health risk assessor and chemist.

Donald Milton M.D. Dr.P.H. is the Director of the Maryland Institute for Applied and Environmental Health, and Professor of Epidemiology and Biostatistics and Medicine at the University of Maryland School of Public Health in College Park MD, as well as Adjunct Senior Lecturer on Occupational and Environmental Health at Harvard School of Public Health.

He earned his BS in Chemistry from the University of Maryland Baltimore County, an MD from Johns Hopkins University and his DrPH (Environmental Health) from Harvard University. He trained in medicine at Emory and Boston Universities and Occupational and Environmental Medicine at Harvard. He previously served on the faculties of Harvard School of Public Health Faculty and the University of Massachusetts Lowell's School of Health and Environment. He is board certified in internal and occupational medicine and has 20 years experience in an occupational medicine referral practice. He teaches courses on environmental and occupational hygiene, aerobiology, toxicology, indoor air quality, respiratory epidemiology, physiology, pathology and pathophysiology.

Dr. Milton is a past chair of the ACGIH Bioaerosols committee and a member of the committee since 1988. He is a member of the external advisory board for the UTMB Environmental Health Science Center, Galveston, TX and of the editorial boards of *Applied Environmental Microbiology*, *Indoor Air*, and *BMC Public Health*. He was elected a Fellow of the International Society for Indoor Air Quality and Climate in 2008.

Dr. Milton's specialties include airborne infection transmission, respiratory infection, occupational and environmental asthma, bioaerosols, endotoxin, occupational and environmental epidemiology. He is the lead author of the recently released Maryland Marcellus Shale Public Health study.

Susan Nagel Ph.D. is Associate Professor, Obstetrics Gynecology and Women's Health at the University of Missouri School of Medicine. She is also an Adjunct Assistant Professor in the Division of Biological Sciences. Her research interests include the developmental origins of adult disease and fetal programming, endometriosis and estrogen action.

Dr. Nagel received a BA in Biology from Hendrix College, and a PhD in Biological Sciences from the University of Missouri. She completed a post-doctoral fellowship at Duke University's Department of Pharmacology and Cancer Biology.

Dr. Nagel has co-authored a number of peer-reviewed publications and book chapters, received NIH and other grants including the March of Dimes Basil O'Connor Research Award, and received recognition for her service and mentorship. She has been a guest on NPR to discuss her work.

Reynold Panettieri Jr. M.D. is the Robert Mayock and David Cooper endowed Professor of Medicine at the University of Pennsylvania, Adjunct Professor at Wistar Institute, director of the Airways Biological Initiative, director of the Comprehensive Asthma Program of the Penn Health System, and deputy director of the Center of Excellence in Environmental Toxicology (CEET) at the University of Pennsylvania Perelman School of Medicine.

Dr. Panettieri earned his medical degree at Penn and completed his internship and residency in medicine at the Hospital of the University of Pennsylvania, where he obtained special training in pulmonary diseases.

Dr. Panettieri was the principal investigator for several National Institutes of Health-sponsored grants, including an Asthma SCOR Award, focusing on airway smooth muscle function in asthma and the molecular and cellular mechanisms of airway smooth muscle function and growth. He is now director of a program project grant examining novel approaches in modulating GPCR function. An author of over 410 peer-reviewed research articles and other published pieces, Dr. Panettieri serves on the editorial boards of the *American Journal of Physiology* and *Thorax*, is co-editor-in-chief of *Respiratory Research*, an editor of the *British Journal of Pharmacology* and an associate editor of the *American Journal of Cell and Molecular Biology*. He is the recipient of numerous honors and awards, and holds honorary memberships to various professional societies. In 2013 he was elected chairman of the respiratory structure and function assembly of the American Thoracic Society.

Dedicated to educating the public about asthma, Dr. Panettieri directs the Adult Asthma Patient Education Program in Philadelphia and other asthma education initiatives.

Jerome A. Paulson, MD FAAP is Professor of Pediatrics at the George Washington University School of Medicine & Health Sciences and Professor of Environmental & Occupational Health at the GW Milken Institute School of Public Health. He is the Medical Director for National & Global Affairs of the Child Health Advocacy Institute at the Children's National Medical Center where he also is the director of the Mid-Atlantic Center for Children's Health and the Environment (MACCHE), one of 10 pediatric environmental health specialty units (PEHSUs) in the US.

Dr. Paulson is the chairperson of the executive committee of the American Academy of Pediatrics' Council on Environmental Health. He has also served on the Children's Health Protection Advisory Committee for the US Environmental Protection Agency. Dr Paulson helped organize and was a presenter on a panel on Unconventional Gas Extraction at the 2011 American Public Health Association meeting. He helped organize and was the lead-off speaker at the 2012 conference on the Public Health Aspects of Shale Gas Extraction jointly sponsored by Physicians, Scientists and Engineers for Healthy Energy and MACCHE. He also was an invited panelist at the May 2012 meeting on unconventional gas extraction organized by the George Washington University School of Public Health and the Agency for Toxic Substances & Disease Registry. He was on the planning committee for a meeting on data collection related to water and air toxics exposures from unconventional gas extraction that was jointly sponsored by the Natural Resources Defense Council, the Harvard Center for Environmental Health and MACCHE in December 2013.

He holds a B.S. in Biochemistry from the University of Maryland, and an M.D. from Duke University. He did his residency training in pediatrics at the Johns Hopkins Hospital and Sinai Hospital, both in Baltimore, as well as a fellowship in ambulatory pediatrics at Sinai.

Lenore K. Resick Ph.D., CRNP, FNP-BC, FAANP, FAAN is a Clinical Professor at Duquesne University School of Nursing, the Noble J. Dick Endowed Chair in Community Outreach, and the Director of Duquesne's Family Nurse Practitioner Program and Nurse-Managed Wellness Center.

She received her Diploma from Presbyterian University Hospital School of Nursing, her bachelor's and master's degrees in nursing from the University of Pittsburgh, a post-master's certificate in Transcultural Nursing and her Ph.D. from Duquesne University.

Dr. Resick's research interests include the health and wellness of vulnerable populations including older adult African Americans, Appalachian women, Russian speaking immigrants, and Iraqi refugees. Recent research has focused on vulnerable populations and natural gas drilling. She is an author of the paper, "The meaning of health among mid-Appalachian women in the context of the environment," published in the *Journal of Environmental Studies and Sciences*.

Dr. Resick continues to maintain an active clinical practice as a family nurse practitioner with a focus on disease prevention, health promotion, wellness and self-care management for chronic disease. Dr. Resick established the Retired Nurses Working in Neighborhoods Program, which received the Public Service Team award as part of the 2013 regional Jefferson Awards. She was honored with the Distinguished Nurse Award by the Pennsylvania State Nurses Association. Dr. Resick was recently named one of the 15 Top Family Nurse Practitioner Nursing Professors by NursePractitionerSchools.com. In October 2014, she will be inducted as a fellow to the prestigious American Academy of Nursing.

Diana Stares Esq. is the inaugural Director of the Center for Energy Policy and Management (CEPM) at Washington & Jefferson College. As Director of the CEPM, she works with scientists, industry leaders, elected officials and citizens to exchange information that shapes regional and national energy policy, coordinates the development and publication of the Washington & Jefferson College Energy Index (which measures the nation's progress toward energy independence and security), and facilitates research opportunities, internships and hands-on experience in energy and energy-related issues for Washington & Jefferson College students. Prior to joining Washington & Jefferson College, Ms. Stares practiced as an environmental lawyer with the Pennsylvania Department of Environmental Protection (DEP) in its Pittsburgh office, where she managed the legal staff who represented the Department in its administration of Pennsylvania's environmental protection programs, including those involving water, air, waste, mining and oil and gas development. Ms. Stares received a Bachelor's Degree from Hofstra University and a law degree from Duquesne University.

SHALE and PUBLIC HEALTH COMMITTEE MEMBERS

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With assistance from

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Catherine Giles

Moriah Rakas

Jeannette Schollaert

Claire Swauger

CONFERENCE ACCREDITATION INFORMATION

Those seeking continuing education hours must sign in, receive the special evaluation/knowledge survey, fill out the evaluation/knowledge survey and turn in that form at the conference, and sign out. Thank you.

October 26: Shale and Public Health: Days of Discovery has been planned in collaboration with the University of Pittsburgh Region 3 Public Health Training Center.

The University of Pittsburgh Region 3 Public Health Training Center is an approved provider of continuing professional education by the National Board of Public Health Examiners. Individuals Certified in Public Health may be awarded **3 Certified in Public Health Continuing Education Units (CPHCEU) for completion of day 1 of this conference, October 26, 2014.**

The University of Pittsburgh Region 3 Public Health Training Center is an approved/accredited provider of continuing professional education by the **PA Board of Nursing. Registered nurses in Pennsylvania may be awarded 3 Continuing Education Hours for completion of day 1 (10/26/14)** of this conference under Act 58 of 2006 and 49 PA Code, Chapter 21 §21.134 (Continuing Education Sources) of the rules and regulations of the Pennsylvania State Board of Nursing.

The University of Pittsburgh Region 3 Public Health Training Center is an approved provider of continuing professional education by the National Commission for Health Education Credentialing. Certified Health Education Specialists may be awarded 3 Continuing Education Contact Hours (CECH Category I entry) and Master Certified Health Education Specialists may be awarded 3 Continuing Education Contact Hours (CECH Category I advanced) for completion of day 1 of this conference, October 26, 2014.

Day 1 (10/26/14) of this program is offered for **3 hours of social work continuing education** through co-sponsorship of the University of Pittsburgh's School of Social Work, a Council on Social Work Education-accredited school and, therefore, a PA pre-approved provider of social continuing education. These credit hours satisfy requirements for LSW/LCSW, LPC and LMFT biennial license renewal.

Accreditation is pending for Education (ACT 48).

October 27: Shale and Public Health: Days of Discovery has been planned in collaboration with the University of Pittsburgh Region 3 Public Health Training Center.

The University of Pittsburgh Region 3 Public Health Training Center is an approved provider of continuing professional education by the National Board of Public Health Examiners. Individuals Certified in Public Health may be awarded **7 Certified in Public Health Continuing Education Units (CPHCEU) for completion of day 2 of this conference, October 27, 2014.**

The University of Pittsburgh Region 3 Public Health Training Center is an approved/accredited provider of continuing professional education by the PA Board of Nursing. **Registered nurses in Pennsylvania may be awarded 7 Continuing Education Hours for completion of day 2 (10/27/14)** of this conference under Act 58 of 2006 and 49 PA Code, Chapter 21 §21.134 (Continuing Education Sources) of the rules and regulations of the Pennsylvania State Board of Nursing.

The University of Pittsburgh Region 3 Public Health Training Center is an approved provider of continuing professional education by the National Commission for Health Education Credentialing. Certified Health Education Specialists may be awarded 7 Continuing Education Contact Hours (CECH Category I entry) and Master Certified Health Education Specialists may be awarded 7 Continuing Education Contact Hours (CECH Category I advanced) for completion of day 2 of this conference, October 27, 2014.

Day 2 (10/27/14) of this program is offered for **7 hours of social work continuing education** through co-sponsorship of the University of Pittsburgh's School of Social Work, a Council on Social Work Education-accredited school and, therefore, a PA pre-approved provider of social continuing education. These credit hours satisfy requirements for LSW/LCSW, LPC and LMFT biennial license renewal.

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“Shale Drilling and Public Health: Days of Discovery”/ 2014 is a project of the League of Women Voters of Pennsylvania’s Straight Scoop on Shale initiative, which is funded by a grant to the LWVPA Citizen Education Fund, from the

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Find out more about the Straight Scoop on Shale

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