Symposium on the Public Health Dimensions of Oil and Gas Development: Tools, Strategies, and Collaboration
Symposium on the Public Health Dimensions of Oil and Gas Development: Tools, Strategies, and Collaboration

This symposium aims to discuss the role of monitoring in identifying and communicating these potential health risks, while also creating space to share community monitoring experiences, share expertise to add value to engagements, and finally the opportunity to connect public health departments and relevant stakeholders.

This symposium has been organized as the follow up to our first “Fracking and Health” symposium held in Washington, D.C. in 2014. The attendees included scientists, health professionals, nonprofit researchers, and community advocates working on energy issues with a focus on unconventional oil and gas development. This gathering was significant in that it brought these groups together for the first time to focus specifically on community monitoring.

The 2016 symposium has been organized for frontline communities, community scientists, researchers, as well as health professionals looking at environmental and social determinants of health, with the intention of creating effective engagement and collaboration amongst those working on upstream oil and gas activities.
Symposium Logistics

Contact Avais Sherani, Symposium Coordinator with any questions. Avais can be reached throughout the Symposium at Avais@ceh.org or cell: 718 666 6783.

Belongings
There is no place to safely store belongings at Occidental College. Please carry your belongings with you during lunch break and at end of day. The conference Room will not be locked during our absence.

WiFi Access
Attendees can access WiFi throughout the Occidental College by choosing the open WiFi "oxyairnet". This is an open WiFi and does not require any password or sign-in.

Navigating Occidental College
All sessions including workshops and reception will be held in “Swan Dumke West”. Rooms for breakout groups (during workshops) will be announced by the facilitator for each group. You can also refer to the map provided on page 25 of this program booklet to find the room for your respective workshop.

Copy Services
The Occidental College bookstore has copy services, and is located in Johnson Student Centre (No. 15 on the Map). The store hours are 8:30 AM to 5:00 PM. Cash and Credit cards are accepted.

Sundries
- Green Bean features a variety of coffees and pastries. It is in the Johnson Student Center, 2nd floor.
- Tiger Cooler is located in the Samuelson Pavilion.

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Symposium Agenda

Thursday, January 21, 2016
7:30 a.m. – 8:00 a.m. Registration & Light Breakfast

8:00 a.m. – 8:15 a.m. Welcome & Introduction
Ansje Miller
Eastern States Director, Center for Environmental Health
Michael Green
Executive Director, Center for Environment Health

8:15 a.m. – 9:30 a.m. Public Health Dimensions of Oil & Gas Development in California
Facilitator Martha Dina Argüello
Executive Director, Physicians for Social Responsibility, Los Angeles
Presenter Seth B.C. Shonkoff, Ph.D., M.P.H.
Executive Director, Physicians Scientists & Engineers for Healthy Energy
Topic Types of Oil and Gas Development, Health Risks, and Approaches to Reduce These Risks

9:30 a.m. – 10:45 a.m. The Power of Health Risk Communication: Community Organizing and Participatory Research
This panel will focus on the role of communicating about public health risks of oil and gas development. Panelists will present different perspectives on community organizing and community participatory research with the goal of trying to empower and educate the public using data collected in the field. Speakers will share their experiences participating in citizen science, community participatory research, and community organizing. Speakers will share how they have used environmental monitoring data and public health data to highlight potential health risks of oil and gas development and empower local community members so that they can become catalysts of change.

Facilitator Sharyle Patton
Director, Commonweal Biomonitoring Resource Center
Panelist | Rabeya Sen  
| Director, Policy, Esperanza Community Housing, Los Angeles  
Topic | The Strength of Community: Organizing for Environmental Justice, Health, Housing, and Safety  

Panelist | Rebecca Roter  
| Chairperson, Breathe Easy Susquehanna County (BESC)  
Topic | Citizen Science and Monitoring - Case Study of Susquehanna County, PA  

Panelist | Rosanna Esparza, Ph.D.  
| Program Organizer, Clean Water Action  
Topic | Community Engaged Air Pollution Monitoring – Case Study of Lost Hills, CA  

Panelist | Niki Wong, MPH  
| Lead Community Organizer, Redeemer Community Partnership  
Topic | Value of Community Perspective in Research and Monitoring Development  

Panelist | Ashley Hernandez  
| Youth Organizer, Communities for a Better Environment, Los Angeles  
Topic | Frontline Community Organizing to Protect Health  

10:45 a.m. – 11:00 a.m. Break with Light Refreshments  

11:00 a.m. – 12:30 p.m. Air Monitoring Part - 1: Atmospheric Air Sampling: Research Approaches  
The discussion for this panel will focus on some of the various tools and techniques being used by the academic research community measuring emissions data and assessing air quality and atmospheric pollution in urban and remote areas. Researchers will focus on the most successful atmospheric research instrumentation and methodologies being applied to studies of atmospheric composition, transport, and chemistry. Speakers will also discuss some of the strengths and limitations associated with different methods and instrumentation, as well as strategies that can be employed to overcome air monitoring challenges.  
Facilitator | Seth B.C. Shonkoff, Ph.D., MPH  
| Executive Director, Physicians Scientists & Engineers for Healthy Energy
Panelist | Detlev Helmig, Ph.D.  
Associate Research Professor of INSTAAR, University of Colorado  
Topic | Air Monitoring for Emissions from Oil and Gas Development Operations

Panelist | Eduardo (Jay) Olaguer, Ph.D.  
Program Director, Air Quality Science, Houston Advanced Research Center  
Topic | Mobile Monitoring, Data Broadcasting, and Source Attribution in Real-Time

Panelist | Michael P. Hannigan, Ph.D., M.S.  
Assistant Professor Mechanical Engineering Department  
University of Colorado  
Topic | The benefits and limitations of low-cost monitoring technologies

Panelist | Diane Garcia-Gonzales  
Ph.D. Student, UC Berkeley  
Topic | Measuring Distance Decay Gradients around Oil and Natural Gas Developments

Panelist | Raina Rippel  
Director, Southwest Pennsylvania Environmental Health Project  
Topic | Air Sampling through Speck Monitors

12:30 p.m. – 12:45 p.m. | Box Lunch (to go) – Swan Dumke Patio  
Meet the Corporate Coach Tour Bus on the Alumni Drive (slightly west of Swan Dumke). Bus leaves at 12:45 p.m. Sharp

12:45 p.m. – 2:45 p.m. | Field Tour of South Los Angeles Oil Extraction Sites with Nancy Halpern Ibrahim, MPH, Executive Director of Esperanza Community Housing Corporation  
Physicians for Social Responsibility Los Angeles Chapter (PSR – LA) has arranged for a field trip to three oil drilling sites that are located within residential communities or other sensitive land uses of South Los Angeles: the AllenCo, Murphy, and Jefferson Drill Sites. The field trip will be led by a representative from one of the community based organizations, Esperanza Community Housing Corporation, and will help the participants to see a glimpse of the exposures these communities face every day. The participants will also be briefed on the health impacts the residents are facing and their experiences with regulatory agencies like the South Coast Air Quality Management District.
3:00 p.m. – 4:00 p.m.  

**Air Monitoring Part - 2: Community Based Participatory Air Sampling**  
This panel will focus on community based monitoring and the various tools and techniques being used for analyzing the impacts on air. Community advocates and scientists will share the costs and benefits of community based participatory air sampling as well as how they have used citizen science techniques to educate the public on the risks associated with unconventional oil and gas development.

**Facilitator**  
Elizabeth Crowe  
Co-Director, Coming Clean

**Panelist**  
Bruce Baizel, B.A., M.A., J.D.  
Director, Energy Program, Earthworks

**Topic**  
Air Monitoring and Community Health in 3 States

**Panelist**  
Kim Schultz  
Oil and Gas Program Coordinator, The Endocrine Disruption Exchange (TEDX)

**Topic**  
Community Based Participatory Air Sampling

**Panelist**  
Deb Thomas  
Director, Shale Test

**Topic**  
Costs and Benefits of Community Based Monitoring in the Rural West

4:00 p.m. – 4:15 p.m.  

**Break with Light Refreshments**

4:15 p.m. – 5:15 p.m.  

**Best Practices in Community Monitoring: Understanding the Emission Profiles at Oil and Gas Sites**  
The goal of this session is to share different tools, approaches and techniques being used to measure and monitor other environmental media (i.e. soil, water, noise, and biota) near oil and gas sites. We will hear from experts as they discuss approaches taken in their community monitoring work to measure and characterize emission profiles and some of the challenges and successes associated with these approaches. Panelists will share ideas for monitoring protocol development and how study results have been successfully used to support intended goals such as advancing regulations, building community cohesion, connecting with the science community, and promoting awareness through public education and community advocacy.

**Facilitator**  
Jake Hays  
Director of the Environmental Health Program, PSE Healthy Energy
Panelist: Jill Kriesky Ph.D.
Associate Director, Southwest Pennsylvania Environmental Health Project (EHP)
Topic: SWPA EHP Processes to Build Community Understanding of UOGD Emissions

Panelist: Robert Harrison, M.D., M.P.H.
Clinical Professor of Medicine, University of California
Topic: Approaches to Community Biomonitoring - Challenges and Successes

Panelist: Susan Nagel Ph.D.
Associate Professor, Obstetrics Gynecology and Women’s Health, University of Missouri
Topic: Health effects of Endocrine Disrupting Chemicals in Oil and Gas Development

5:15 p.m. – 6:30 p.m.
Workshop: Building Partnerships and Exchanging Information
This workshop is designed to encourage discussion on common ground and challenges in partnership dynamics, to present a framework for meaningful partnerships, understand the similarities and differences of concerns in the different oil and gas communities, and to foster trust and solidarity among groups from different areas. Through shared stories and dialogue among these groups, we will exchange information, and identify and form productive partnerships in order to effect better health protections in oil and gas development communities.

Facilitators:
Ansje Miller,
Eastern States Director, Center for Environment Health
Elizabeth Crowe
Co-Director, Coming Clean
Larysa Dyrszka, MD
Sullivan Area Citizens for Responsible Energy Development, PSR-NY, and Concerned Health Professionals of NY
Jill Johnston, Ph.D.
Assistant Professor, Department of Preventive Medicine, University of Southern California

6:30 p.m. – 7:30 p.m.
Reception (Swan Dumke West)
Friday January 22, 2016

7:30 a.m. – 8:00 a.m.  Registration & Light Breakfast

8:00 a.m. – 8:15 a.m.  Recap and Day Two Introduction

8:15 a.m. – 9:30 a.m.  Working Effectively with Government Public Health Agencies

Presenter  Linda Rudolph, M.D., M.P.H.
Director, Center for Climate Change and Health, Public Health Institute

Local and state government public health agencies are charged with protecting and promoting the health of all people in their jurisdictions. Dr. Rudolph will explore how community-based organizations and community residents can work more effectively with these agencies to share information and knowledge to address pressing health needs.

9:15 a.m. – 10:45 a.m.  Asking the Right Questions: Data and Decision Making

In this session we will hear from health department officials and environmental justice advocates as they discuss the gaps between regulatory decision-making and public health safety information. The panel will explore which tools are helpful in protecting public from UOG, such as the pros and cons of risk assessment vs. Environmental Impact Assessments vs. Health Impact Assessments, and how public health officials and advocates can and should work with government officials in creating policy on oil and gas operations in communities.

Facilitator  Linda Rudolph, M.D., M.P.H.
Director, Center for Climate Change and Health, Public Health Institute

Panelist  Paul English, Ph.D., M.P.H.
Senior Branch Science Advisor, Environmental Health Investigations Branch, CA Department of Public Health

Topic  Using Community-Based Research to Monitor Air Quality in Neighborhoods

Panelist  Rebecca O. Johnson
End of Life Care Program, Graduate and Professional Studies, Sarah Lawrence College

Topic  Correlating Monitoring Results with Population Health & Community Disease Experience

Panelist  Gladys Limón, J.D.
Staff Attorney at Communities for a Better Environment

Topic  Formulating Policies & Regulations: Data & Participation Challenges
Panelist  **Cyrus Rangan, M.D. FAAP FACMT**  
Director, Toxic Epidemiology Program, LA County Department of Public Health  

**Topic**  
Public Health Evaluation of Communities Burdened by Proximity to Multiple Sources of Pollution

Panelist  **Alexandra Nagy**  
Southern California Organizer, Food and Water Watch, Los Angeles  

**Topic**  
Topic: Health Impacts on the Community from Porter Ranch (LA) Gas Leak.

10:45 a.m. – 11:00 a.m.  
Break with Light Refreshments

11:00 a.m. – 12:30 p.m.  
**Workshop: Strategizing for Effective Engagement**  
In these two workshops, participants will discuss and strategize about how to engage public health department officials (both state and local) with organizations involved in monitoring and other health data collection efforts to highlight the threats to public health. Panelists will discuss strategies that can lead towards enhanced public participation in decisions related to public health.

**Workshop 1: Swan Dumke West**  
Managing public health through public participation: impediments and solutions

**Facilitator**  
**Paul English, Ph.D., M.P.H**  
Senior Branch Science Advisor, Environmental Health Investigations Branch, CA Department of Public Health

**Workshop 2: UEPI Seminar Room**  
Promoting and disseminating health research from collaboration between health departments, community groups, and academics

**Facilitator**  
**Emily Harris, MPH, LMT, NCTMB**  
Program Manager, Arkansas Fracking

12:30 p.m. – 1:30 p.m.  
Luncheon (Lower Herrick)

1:30 p.m. – 2:30 p.m.  
**Workshop Results (Swan Dumke West)**  
The Workshop groups will share the discussion results/draft strategies/collaboration mechanism, followed by Q&A.

2:30 p.m. – 2:45 p.m.  
**Symposium Closing**
Symposium Advisory Team

**Ansje Miller**, Eastern States Director, Center for Environment Health

**Barbara Sattler**, R.N., Dr.PH, FAAN, Professor, Public Health Program, University of San Francisco

**Bhavna Shamasunder**, Ph.D. Assistant Professor, Urban and Environmental Policy, Occidental College

**Elizabeth Crowe**, Co-Director Coming Clean

**Jake Hays**, Director of the Environmental Health Program, PSE Healthy Energy

**Jennifer Kim**, Air Quality & Health Associate, Physicians for Social Responsibility – LA

**Katie Huffling, R.N., C.N.M.**, Director of Programs, Alliance of Nurses for Healthy Environments (ANHE)

**Martha Dina Arguello**, Executive Director, Physicians for Social Responsibility – LA

**Seth Shonkoff**, Ph.D. M.P.H., Executive Director, PSE Healthy Energy

**Sharyle Patton**, Director, Biomonitoring Resource Center Program, Commonweal

Symposium Staff

**Avais Sherani** / Healthy Energy Choices Campaign Associate, Center for Environment Health

Email: Avais@ceh.org Website: www.ceh.org

Avais Sherani is an international development professional with 8 years of experience of working in the environment, energy, and renewables sectors, in addition to working on transparency and accountable governance. Avais joined the Center for Environmental Health’s (CEH) New York office in January 2015, through an international professional exchange program for the non-profit sector, and is serving there to date. Avais has also managed and coordinated extensive training programs in Pakistan and the United States, while implementing different project initiatives, funded by donors and organizations such as: The World Bank, Asian Development Bank (ADB), United States Agency for International Development (USAID), United States Environmental Protection Agency (USEPA), United Nations Industrial Development Organization (UNIDO), GIZ, WISIONS, as well as the Government of Pakistan.
Valuable Contributors

**Sylvia Chico** / Senior Program Coordinator, Urban & Environmental Policy Department, Occidental College  
Email: schico@oxy.edu Website: www.oxy.edu/uepi  
Sylvia Chico joined Occidental College in 1992 working in the Facilities Management Department and then transitioned to the UEP Academic Department as the senior program coordinator in 2000. She provides primary support for the UEP faculty, students and alums, and general office support for UEPI. Sylvia received the Oxy Ambassador of Service Excellence Award in 2001, and several years later, she received the Sarah A. Gilman Memorial Award in recognition for her outstanding and dedicated service to Occidental.

**Sue Chiang** / Pollution Prevention Director, Center for Environmental Health  
Email: sue@ceh.org Website: http://www.ceh.org  
Sue is leading CEH’s Healthy Energy campaign in California. She is collaborating with GCM on a project to empower grassroots communities fighting oil and gas development by training them on how to monitor and document air pollutants in their neighborhoods. She is also educating and engaging health professionals in California around the health risks of fracking, and oil and gas development with the goal of enlisting them to become advocates for clean energy solutions.

**Ellen Webb** / Health Energy Sciences and Advocacy Manager, Center for Environmental Health  
Email: ellen@ceh.org Website: http://www.ceh.org  
Ellen is leading CEH’s Healthy Energy campaign from New York. She has been educating and engaging communities and health professionals around the maternal health risks of oil and gas development with the goal of promoting awareness and developing strategies to reduce health risks for vulnerable populations such as pregnant women and children. She has been collaborating with a number of scientists and health professionals on the development of different educational tools and resources to help inform health-related policies and promote clean energy solutions.
Presenter Profiles

Arguello, Martha Dina / Executive Director, Physicians for Social Responsibility - Los Angeles
For the past 32 years, Martha has served in the nonprofit sector as an advocate, community organizer, and coalition builder. Martha joined PSR-LA in 1998 to launch the environmental health programs, and became Executive Director in November 2007. Martha is committed to making the credible voice of physicians a powerful instrument for transforming California and our planet into a more peaceful and healthy place.

Baizel, Bruce, B.A., M.A., J.D. / Director, Energy Program, Earthworks
Bruce received his B.A. in Biology from Earlham College and his M.A. in International Relations and J.D. from the University of Denver. Based in Durango, Colorado, Bruce has worked on oil and gas issues throughout North America, at local, state, national and international levels. He has testified before Congress, drafted federal, state and county legislation and ordinances related to oil and gas and advised numerous local governments on regulation of natural gas. He most recently served on the STRONGER review team, which evaluated the state of Louisiana’s hydraulic fracturing regulations. Prior to joining Earthworks and the Oil & Gas Accountability Project in 2003, Bruce practiced law in Colorado, was a co-founder of Round River Conservation Studies and was legal counsel for Diné CARE, on the Navajo Nation.

Crowe, Elizabeth / Co-Director, Coming Clean
Elizabeth is the Co-Director of Coming Clean, a national environmental health and justice collaborative working on chemical and fossil fuel industry reforms. Elizabeth has worked as a community and network organizer since 1992, primarily in Kentucky, on issues including chemical weapons, incineration, coal and chemical reform. She lives in Boulder County, Colorado.

Dyrszka, Larysa, M.D / Sullivan Area Citizens for Responsible Energy Development, PSR-NY, and Concerned Health Professionals of NY
Dr. Dyrszka is an advocate for health on the issue of natural gas exploration and production. She is a founding member of Sullivan Area Citizens for Responsible Energy Development, vice-chair of the CME curriculum committee for Physicians, Scientists and Engineers for Healthy Energy and on the board of Physicians for Social Responsibility – New York. Together with fellow NY medical colleagues, she founded Concerned Health Professionals of New York. Dr. Dyrszka is a graduate of Washington University School of Medicine in St. Louis. She is a United Nations representative to ECOSOC with the World Federation of Ukrainian Women’s Organizations.

English, Paul, Ph.D., M.P.H / Senior Branch Science Advisor, Public Health Institute
Dr. Paul English is currently Senior Science Advisor for the Environmental Health Investigations Branch at the California Department of Public Health. Dr. English is Principal Investigator of the California Environmental Public Health Tracking
Program and has directed multiple research grants from the CDC, U.S. EPA, and NIH. Dr. English received his Master’s in Public Health and doctorate degree in Epidemiology from the University of California, Berkeley. Dr. English has 20 years of experience working in environmental public health for the California Department of Public Health and has published extensively in the peer-reviewed literature.

**Esparza, Rosanna, Ph.D. / Program Organizer, Clean Water Fund**

A Program Organizer with Clean Water Action, Rosanna holds graduate degrees in Gerontology and Public Policy from the University of Southern California. For more than 15 years, Rosanna has fed the flames of social justice by joining forces with marginalized and disenfranchised people living in communities from East Los Angeles to Kern County as an agent of change. Rosanna is focused on ensuring the longevity and strength of her connections and conviction to environmental issues.

**Garcia-Gonzales, Diane /Ph.D. Student, UC Berkeley**

Diane Garcia-Gonzales, is a doctoral candidate at the Division of Environmental Health Sciences in the School of Public Health, UC Berkeley and a Systems Approach to Green Energy Fellow. Ms. Garcia-Gonzales is interested in the effects of air pollutants on adverse birth outcomes. Her dissertation research focuses on air quality around oil and natural gas development in Colorado and Southern California.

**Green, Michael / Executive Director, Center for Environmental Health**

Michael Green is Executive Director of the Center for Environmental Health (CEH) which he founded in 1996. As Director of CEH (www.ceh.org), he has been a leader in national efforts to protect children and families from lead and other toxic chemicals in consumer products, and from illnesses related to pollution in our air, water and food. CEH is a leading advocate for comprehensive chemical policy, and has been hired by both corporations and government agencies to design policies that will protect the public from exposure to toxic chemicals.

**Hannigan, Michael P. Ph.D., M.S. / Assistant Professor, Mechanical Engineering Department, University of Colorado**

Dr. Michael Hannigan, is Assistant Professor at the Mechanical Engineering Department at the University of Colorado in Boulder, and has been teaching in Environmental Science series, Air Pollution Control, Sustainable Energy, Environmental Toxicology, Fluid Mechanics, Solid Mechanics, and Experimental Design & Data Analysis. Dr. Hannigan’s research has focused on characterizing particulate air pollutants at urban and remote locations. In addition to the focus on particulate air pollution, Dr. Hannigan’s research interests have branched out to include air pollution sampler development, and making sense of the current energy use patterns and trends.
**Harris, Emily, MPH, LMT, NCTMB / Program Manager, Arkansas Fracking**

EMILY HARRIS is a Public Health Educator and Trauma Recovery Specialist. She facilitates her neighborhood Arkansas Department of Health Hometown Health Improvement Coalition, Faulkner County Citizens Advisory Group by connecting community members with the governmental agencies and elected officials that represent them. Mrs. Harris has fulfilled a variety of professional roles with multiple state agencies, including senior epidemiologist in air quality analysis and as a planning staff specialist. She served as the Arkansas State Contact for the County Health Rankings while program manager for a CDC funded cooperative agreement for the Arkansas Department of Health known as the Arkansas Assessment Initiative (AR-AI). Mrs. Harris was honored with an “Arkansan of the Year” award in 2013 for her work with the Mayflower community following the Pegasus pipeline rupture.

**Harrison, Robert, M.D., M.P.H. / Clinical Professor of Medicine, University of California, San Francisco**

Dr. Robert Harrison founded and has directed UCSF Occupational Health Services for more than 15 years, and now is a senior attending physician. Dr. Harrison has diagnosed and treated over 10,000 patients with work- and environmental-induced diseases and injuries. Dr. Harrison also directs the worker tracking investigation program for the California Department of Public Health. Dr. Harrison received his B.A. from the University of Rochester and his M.D. from the Albert Einstein College of Medicine. He is board certified in both internal medicine and occupational medicine. Dr. Harrison has served on the California Occupational Safety and Health Administration (Cal/OSHA) Standards Board, and authored numerous publications in the area of occupational medicine. He is a clinical professor of medicine at UCSF.

**Hays, Jake / Director, PSE Healthy Energy**

Jake Hays has worked as a program director for PSE Healthy Energy and a research associate at Weill Cornell Medical College since 2011. His principle focus has been on the environmental and public health aspects of unconventional oil and gas development. He has a B.A. in philosophy from Connecticut College and an M.A. in environmental ethics from the University of Montana. He is also currently pursuing a J.D. at Fordham University School of Law in New York City, where he serves as a board member of the Environmental Law Advocates and a staff member of the Environmental Law Review.

**Helmig, Detlev, Ph.D. / Associate Research Professor, INSTAAR, University of Colorado**

Dr. Detlev Helmig, is an Associate Research Professor at the Institute of Arctic Research at the University of Colorado. After receiving his university education and Ph.D. degree in Germany Dr. Helmig held appointments at the Statewide Air Pollution Center, University of California, Riverside, and the National Center of Atmospheric Research, in Boulder, USA. Dr. Helmig’s research focuses on development of atmospheric research instrumentation that is then applied to
studies of atmospheric composition, transport, and chemistry. Particular focus areas are volatile organic compounds, biogenic emissions, and polar chemistry. Dr. Helmig has published more than 150 peer-reviewed publications in the field of Atmospheric Science and is Editor in Chief of the Atmospheric Science Domain of the open access and non-profit journal Elementa.

Hernandez, Ashley / Youth Organizer, Communities for a Better Environment, Los Angeles
A Youth Organizer with Communities for a Better Environment, Ashley was immersed in the world of social justice as a high school junior. Now, in the shoes of past organizers she is a full time organizer and student at LBCC, working with her own frontline community. She has had to face the difficult truth of industry support while organizing in a community she has known well throughout her life, but continues the work as she sees leadership training and development as a catalyst to changing the culture in the heart of the harbor.

Johnston, Jill, Ph.D. / Assistant Professor, Department of Preventive Medicine, University of Southern California
Jill Johnston, PhD is an Assistant Professor and Director of Community Engagement in the Division of Environmental Health at University of Southern California. Dr. Johnston received her PhD in environmental sciences and engineering from the University of North Carolina at Chapel Hill, where she studied hazardous waste sites and industrial animal production. Broadly, her research focuses on addressing unequal exposures to harmful contaminants that affect the health of working poor and communities of color, including impacts of oil and gas development. Most recently, she has investigated impacts of wastewater from fracking in communities in the Eagle Ford Shale.

Kriesky, Jill, Ph.D. / Associate Director, Southwest Pennsylvania Environmental Health Project
Dr. Jill Kriesky has been the associate director of the Southwest Pennsylvania Environmental Health project since February 2013. Previously Dr. Kriesky worked on community-based issues on shale gas development at the Center for Healthy Environments and Communities in the University of Pittsburgh’s Graduate School of Public Health and at the Appalachian Institute at Wheeling Jesuit University in West Virginia.

Limón, Gladys, J.D. / Staff Attorney, Communities for a Better Environment
MS. Gladys Limón is a Staff Attorney at Communities for a Better Environment, representing community members in all stages of litigation and administrative proceedings. Her work currently includes an unprecedented lawsuit against the City of LA alleging unlawful and racially discriminatory approval of oil drilling in neighborhoods; a legal challenge to a major refinery project that plaintiffs allege will result in the transport of heavy, dirty tar sands crude by rail; and opposing a proposal to build a fourth gas power plant on the City of Oxnard’s beaches before the PUC. Ms. Limon received her J.D. from Stanford Law School in 2003.
Miller, Ansje / Eastern States Director, Center for Environmental Health
Ansje Miller is the Eastern States Director for the Center for Environmental Health. In that role, she represents CEH with elected officials and others in New York and Washington, DC as well as directs the activities in the Eastern States office. For the past 22 years, Ms. Miller has led both state and national advocacy coalitions and has led successful legislative and regulatory campaigns to promote environmental health leading to the reduction of exposures from toxic chemicals and efforts to mitigate climate change and promote renewable energy.

Nagel, Susan Ph.D. / Associate Professor, Obstetrics Gynecology and Women's Health, University of Missouri
Dr. Susan Nagel received her doctoral degree from the University of Missouri, Columbia and did postdoctoral training at Duke University. Dr. Nagel conducted research in the Nagel lab centers on estrogens, endometriosis, endocrine disrupting chemicals and epigenetic modifications that contribute to developmental origins of adult disease.

Nagy, Alexandra / Southern California Organizer, Food and Water Watch, Los Angeles
Alexandra Nagy is the Southern California Organizer at the Los Angeles branch of Food & Water Watch. She works within the Los Angeles and greater Southern California region to advocate for consumer health issues, namely food safety, the human right to water, and a statewide ban on fracking. Alex holds bachelor’s degrees in political science and urban planning from the University of California, Irvine. While at UC Irvine, Alex created a sustainability program and a student-employee working group for dining services, and developed the campus’ first student-led, community garden, Ants in Your Plants.

O. Johnson, Rebecca / End of Life Care Program, Sarah Lawrence College
Ms. Rebecca O. Johnson is a writer and activist living in Akron, Ohio. Rebecca’s work considers the many environments we occupy. Rebecca is currently focused on the landscape of dispossession. Rebecca’s work has appeared in Callaloo, Race-Talk, The Women’s Review of Books and others. (Wisdom Press, 2012). Rebecca works with environmental justice groups in the South and teaches at Sarah Lawrence College.

Olaguer, Eduardo Ph.D. / Program Director, Air Quality Science, Houston Advanced Research Center
Dr. Eduardo (Jay) Olaguer holds a Ph.D. in Meteorology from MIT and is a Senior Research Scientist and Program Director for Air Quality Science at HARC. Dr. Olaguer has designed and built complex 3-D models of the global atmosphere and urban air quality, including a global, radiative-dynamical-chemical model of the lower and middle atmospheres, and the HARC neighborhood (forward and adjoint) air quality model. Dr. Olaguer also contributed to the development of EPA’s HAPEM and pNEM models of human exposure. Dr. Olaguer has been a major contributor to various industry, state, federal, and international panels.
evaluating, planning, funding, or overseeing research on atmospheric pollution. This includes the Intergovernmental Panel on Climate Change, the California Air Resources Board’s Reactivity Research Advisory Committee, and the NARSTO Reactivity Research Work Group.

**Patton, Sharyle / Director, Commonweal**
Sharyle is director of the Commonweal Biomonitoring Resource Center, where she has been employed for 20 years. Her program, working with such entities as Mt. Sinai School of Medicine, the Environmental Working Group, California Department of Public Environmental Health Investigations Branch, has pioneered the implementation of biomonitoring projects initiated by community-based organizations and the communication of the data from such projects to project participants. Sharyle is special projects director for Commonweal’s Collaborative on Health and Environment, a network of more than 3,000 health professionals, scientists, and representatives from health-affected groups interested in exploring linkages between environment and health outcomes.

**Rangan, Cyrus / M.D. FAAP FACMT/ Director, Toxic Epidemiology Program, LA County Department of Public Health**
Dr. Rangan is Director of the Bureau of Toxicology and Environmental Assessment at the Los Angeles County Department of Health Services, Public Health. Dr. Rangan graduated from Medical College of Pennsylvania in 1995 followed by a clinical residency in General Pediatrics at Children’s Hospital Los Angeles, graduating in 1998. He then completed a fellowship in Medical Toxicology at the University of California, San Diego Medical Center in 2000. He is board-certified in Pediatrics and Medical Toxicology. Dr. Rangan also serves as Director of the Los Angeles Area Medical Toxicology Education Program for the California Poison Control System. Dr. Rangan is also an attending physician and Consulting Toxicologist at Children’s Hospital Los Angeles and an instructor at the USC/Keck School of Medicine.

**Rippel, Raina / Director, Southwest Pennsylvania Environmental Health Project**
In 2011, Raina Rippel helped found the SWPA Environmental Health Project (EHP) as a response to growing concerns associated with gas drilling activity and health impacts in Washington County, PA. Raina was formerly Executive Director of Physicians for Social Responsibility/Maine (1999-2006), and Executive Director of the Center for Coalfield Justice in Washington, PA (2008-2011). As Executive Director of PSR/Maine, Raina organized two “Making the Connection” conferences educating healthcare providers on the connections between health and the environment.
Roter, Rebecca / Chairperson, Breathe Easy Susquehanna County
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Rebecca Roter experienced documented water, air and health impacts while living in the active Marcellus shale fields of Brooklyn Township Susquehanna County PA. Rebecca is the Chairperson and Co-Founder of Breathe Easy Susquehanna County. Rebecca moved off the gas fields this past August 2015, is a self-described PA Shale gas Refugee, and remains the active Chairperson at BESC.

Rudolph, Linda, M.D., M.P.H / Director, Climate Change and Health, Public Health Institute
Dr. Rudolph is the director of the Climate Change and Public Health Project in PHI’s Center for Climate Change and Public Health. She is also the principal investigator on a PHI project to advance the integration of Health in All Policies in local jurisdictions around California. Previously, Dr. Rudolph served as the deputy director of the California Department of Public Health (CDPH)’s Center for Chronic Disease Prevention and Public Health and the health officer and public health director for the City of Berkeley, CA. Dr. Rudolph has also been the chief medical officer for Medi-Cal Managed Care, medical director for the California Division of Workers’ Compensation, executive medical director for the Industrial Medical Council, staff physician in the CDPH Occupational Health program, and a physician for the Oil, Chemical, and Atomic Workers’ International Union. Dr. Rudolph is board certified in occupational medicine.

Schultz, Kim / Program Coordinator, TEDX
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Kim Schultz coordinates the Oil and Gas Program at The Endocrine Disruption Exchange (TEDX), a non-profit organization founded by Dr. Theo Colborn to study how chemicals that disrupt the endocrine system are harming the health of humans and the environment. Kim is passionate about educating the public on the risks associated with unconventional oil and gas development and has coauthored two articles on the subject while at TEDX. Prior to coming to TEDX, Kim worked as a Research Associate at Colorado State University, focusing on restoration of public lands.

Sen, Rabeya / Director, Policy, Esperanza Community Housing Corp
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Rabeya Sen is Director of Policy at Esperanza Community Housing Corporation. Prior to joining Esperanza, Rabeya worked in related social justice fields, addressing immigration, racism, structural violence, and gender-based violence.
Shamasunder, Bhavna Ph.D. / Assistant Professor, Urban and Environmental Policy Department, Occidental College
Dr. Bhavna Shamasunder is Assistant Professor at Urban and Environmental Policy School at Occidental College. Dr. Shamasunder works on issues related to environmental health and justice with a focus on the disparate and cumulative burdens faced by communities of color and the poor. Dr. Shamasunder is also interested in how social movements leverage science in campaigns for justice.

Shonkoff, Seth B.C., Ph.D., M.P.H. / Executive Director, PSE Healthy Energy
Dr. Seth Shonkoff is the executive director of the energy science and policy organization, PSE Healthy Energy. Dr. Shonkoff is also a visiting scholar in the Department of Environmental Science, Policy and Management at UC Berkeley, and an affiliate in the Environment Energy Technology division at Lawrence Berkeley National Laboratory in Berkeley California. An environmental and public health scientist by training, he has more than 15 years of experience in water, air, climate, and population health research.

Thomas, Deborah K. / Director, Shale Test
Deb Thomas lives with her family in the Yellowstone Park eco-system along the Beartooth Front in Wyoming. Deb began working on oil and gas issues in 1999 when drilling began near her home. During the past 16 years she has worked as a community organizer and over the past four has participated in community based monitoring projects in the rural west.

Wong, Niki / Lead Community Organizer, Redeemer Community Partnership
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Niki Wong is the Lead Community Organizer for Redeemer Community Partnership, a Christian community development corporation that has been working in South Los Angeles since 1992 to create a safe, healthy, opportunity-rich community where children, youth and their families thrive. She has been on the front lines of the community organizing effort around the Freeport-McMoRan Oil & Gas’ Jefferson Drill Site, which operates in the middle of her South LA community. She received her B.A. from Trinity University in Urban Studies and her Master’s in Public Health from the University of Texas Health Science Center.
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Notes : Ideas : Collaborations

Name:___________________________________________________________
Preferred mode of contact:_________________________________________
Why I want to stay in touch with this person/organization:

Name:___________________________________________________________
Preferred mode of contact:_________________________________________
Why I want to stay in touch with this person/organization:

Name:___________________________________________________________
Preferred mode of contact:_________________________________________
Why I want to stay in touch with this person/organization:
The Center for Environmental Health (CEH) is a national organization with an eighteen-year track record of protecting children and families from harmful chemicals in our air, water, food, and hundreds of everyday products. CEH works closely with green business leaders and holds corporate laggards accountable to promote healthier alternatives to toxic products and practices.

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