I’m Under What Umbrella?
Partnerships for Environmental Public Health

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National Institute of Environmental Health Sciences
Key Topics

• What’s ‘Environmental Public Health’?
• How did this program come to be?
• What is the Partnerships for Environmental Public Health Program (PEPH)?
• Why am I under this ‘umbrella’?
• What has been accomplished?
• What is the future of PEPH?
• Why should I attend the Inaugural Annual Meeting?
• What are the plans for the webinar series?
Definition of Environmental Public Health

The science of conducting and translating research into action to address environmental exposures and health risks of concern to the public.

• Accomplished through the dissemination of science-based information about environmental risks and diseases to communities and other stakeholders.

• Fosters partnerships between and among community residents/organizations, researchers and other stakeholders in the research process, promotes communication of vital information about the linkages between exposures and disease that can be used to promote health and reduce the risk of disease across the populations at highest risk.
Partnerships for Environmental Public Health

- Development began in September 2007
- Builds upon the strengths of past and current programs
- Unified program to coordinate new and continuing activities in environmental public health
- Focus on research, communication, training and education, and evaluation

- Participatory: Input from many stakeholders:
  - Request for Information (RFI) in November 2007
  - Workshop held June 30-July 1, 2008
    - http://www.niehs.nih.gov/research/supported/programs/peph/about/workshop.cfm
## History

<table>
<thead>
<tr>
<th>Year Range</th>
<th>Program/Project</th>
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</thead>
<tbody>
<tr>
<td>1994-present</td>
<td>Environmental Justice</td>
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<tr>
<td>1996-present</td>
<td>Superfund Outreach and Translation Cores</td>
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<td>1996-present</td>
<td>Community Outreach Programs in EHS Core Centers</td>
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<td>1996-2004</td>
<td>Community Based Prevention and Intervention Research Program</td>
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<td>1998-present</td>
<td>Centers for Children’s Environmental Health</td>
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<td>2000-2007</td>
<td>Establishment of the COEP Resource Center</td>
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<td>2000-2007</td>
<td>Science Education</td>
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<td>2000-2005</td>
<td>Health Disparities</td>
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<tr>
<td>2002-2007</td>
<td>Environmental Justice: Built environment / Healthy communities</td>
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<tr>
<td>2003-present</td>
<td>Environmental Justice: ESLI and genetics</td>
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<tr>
<td>2003-2008</td>
<td>Centers for Population Health and Health Disparities</td>
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<tr>
<td>2003-2010</td>
<td>Breast Cancer and the Environment Research Centers</td>
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<tr>
<td>2005-present</td>
<td>Hazmat Training Program</td>
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<tr>
<td>2005-2009</td>
<td>Obesity and the Built Environment</td>
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<tr>
<td>2005-ongoing</td>
<td>Trans-NIH Community Participation in Research</td>
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</table>
Goals of the PEPH program

• Serve as an Umbrella Program – Strategically coordinate and integrate the various new and existing initiatives that involve communities and scientists working together.
• Develop and evaluate strategies to communicate environmental public health messages to a diversity of audiences.
• Create and provide materials to increase awareness and literacy about environmental health risks.
• Evaluate program contributions to the advancement of environmental public health.
Key Tenets of the PEPH Program

- Engage diverse stakeholder communities at all stages
- Promote research to action
- Value both scientific advances and translational efforts
- Promote the best science (‘gold standards’)
- Respond to current issues (‘nimble’)
- Focus on prevention
- Foster unified, integrated and synergistic activities
- Support research to improve theories, methods and practice
Partnerships For Environmental Public Health

**IMPACT:**
- Local
- State
- Tribal
- Regional
- National
- Global
### Programs Under the Umbrella

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Research to Action</strong></td>
<td>• Partnerships between researchers and community organization</td>
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<tr>
<td><strong>CBPR</strong></td>
<td>• Community-based participatory research</td>
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<td><strong>Capacity Building</strong></td>
<td>• Developing skills to promote sustainable partnerships in research</td>
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<tr>
<td><strong>Science Education</strong></td>
<td>• Curriculum development, teacher training, and summer research experiences</td>
</tr>
<tr>
<td><strong>Environmental Justice</strong></td>
<td>• Partnerships among communities, researchers and health care professionals</td>
</tr>
<tr>
<td><strong>Worker Training Program</strong></td>
<td>• HazMat training</td>
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<tr>
<td><strong>Fellowships</strong></td>
<td>• Create opportunities for the next generation of researchers</td>
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<td><strong>EHS Core Centers</strong></td>
<td>• Community Outreach and Education Cores</td>
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<tr>
<td><strong>Superfund Research Program</strong></td>
<td>• Community Outreach and Research Translation Cores</td>
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<tr>
<td><strong>Children’s Environmental Health</strong></td>
<td>• Community Outreach and Translation Cores</td>
</tr>
<tr>
<td><strong>Breast Cancer Centers</strong></td>
<td>• Community Outreach and Translation Cores</td>
</tr>
<tr>
<td><strong>Resource Center</strong></td>
<td>• Central repository of materials developed by grantees</td>
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<tr>
<td><strong>Evaluation Tools</strong></td>
<td>• Development of tools and resources to evaluate participatory projects</td>
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Environmental Justice

• Enable community residents to more actively participate in the full spectrum of research.
• Three partners: a community organization, an environmental health researcher, and a health care professional to develop models and approaches to building communication, trust and capacity, with the final goal of increasing community participation in the research process.
SRP: Research Translation & Outreach

- Research translation cores foster the dissemination of research findings to a variety of audiences including environmental practitioners and federal/state agencies.
- Community outreach cores allow the grantee to partner with communities living in proximity to hazardous wastes sites and support the community’s needs in addressing issues related to exposures to hazardous substances.
- All SRP projects have Translation cores.
- Several SRP projects have Outreach cores.
EHS Core Centers: Community Outreach

- The objective of the Community Outreach and Education Core (COEC) is to translate research information into knowledge for various professional and public stakeholders.
- COECs focus on one or more of the following three target audiences of interest: Community, Policy-makers, and Public Health and/or Health Care Professionals.
- Programs developed by COECs will lead the field of environmental health outreach and education at the local and national level.

Photo by Andrea Hricko
Community Based Participatory Research

- The program has been instrumental in enhancing and strengthening community-university partnerships in the pursuit of addressing environmental health research and interventions.

- Promote continued research using CBPR approaches through participation in a variety of trans-NIH Program Announcements that encourage
  - intervention research on health promotion, disease prevention, and health disparities that communities and researchers jointly conduct.
  - research that is jointly conducted by communities and researchers and targets medically underserved areas and medically underserved populations.
Children’s Environmental Health Centers

- Examine the effect of environmental exposures on children's health.
- Use a multidisciplinary research approach including basic, applied, and community-based participatory research.
- Community Outreach & Translation Core translates and communicates Center findings to clinical and public health professionals, policy makers, and community organizations to alleviate the burden of environmentally induced diseases in children.
Breast Cancer Centers: Community Outreach

- Basic scientists, epidemiologists, health communication experts, and community advocates work together to study how environmental exposures during specific periods of susceptibility impact future risk of breast cancer.

- Community Outreach & Translation Core is responsible for ensuring the participation of local community members and breast cancer advocacy groups in the research process and working with researchers to disseminate information about study findings and their implications.
Hazmat Training

- The NIEHS Worker Education and Training Program (WETP) and its 18 awardee organizations get needed safety and health resources into the field.
- WETP supports training and education of workers engaged in activities related to hazardous materials and waste generation, removal, containment, transportation and emergency response.
- Trains individuals for work in remediation/construction fields through the Brownfields and Minority Training.
- The National Clearinghouse for Worker Safety and Health is the primary national source for hazardous waste worker curricula, technical reports, and weekly news.
Partnerships For Environmental Public Health

PEPH Model: Advancing

Resource Center Contract Evaluation Contract ARRA: Capacity Building ARRA: STEM Education Research To Action Partners in Research PEPH Supplements
# PEPH Supplements

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brody, Julia G (R25)</td>
<td>Linking Breast Cancer Advocacy and Environmental Justice</td>
</tr>
<tr>
<td>Dalton, Madeline (R01)</td>
<td>Environmental and Family Influences on Adolescent Overweight</td>
</tr>
<tr>
<td>Eaton, David L (P30)</td>
<td>Center for Ecogenetics and Environmental Health</td>
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<tr>
<td>Gilliland, Frank D (P30)</td>
<td>Environmental Exposures, Host Factors and Human Disease</td>
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<tr>
<td>Grattan, Lynn M (R01)</td>
<td>Domoic Acid Neurotoxicity in Native Americans</td>
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<tr>
<td>Groopman, John (P30)</td>
<td>Johns Hopkins Center in Urban Environmental Health</td>
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<tr>
<td>Hertz-Picciotto, Irva (R01)</td>
<td>The Charge Study: Childhood Autism Risks from Genetics and the Environment</td>
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<tr>
<td>Hiatt, Robert A (U01)</td>
<td>Bay Area Breast Cancer &amp; the Environment Research Center</td>
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<tr>
<td>Liu, Lee-Jane Sally (R01)</td>
<td>Children's exposures/health effects/diesel exhaust</td>
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<tr>
<td>Moreno, Nancy P (R25)</td>
<td>The Environment as a Context for Opportunities in School</td>
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<tr>
<td>Robins, Thomas G (R01)</td>
<td>Role of Diesel and Other Vehicular Exhaust in Exacerbation of Childhood Asthma</td>
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<tr>
<td>Rundle, Andrew G (R01)</td>
<td>Obesity, Physical Activity and Built Space in New York City</td>
</tr>
<tr>
<td>Shepard, Peggy M (R25)</td>
<td>Developing An Effective Community Ethical Review Model</td>
</tr>
</tbody>
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Research to Action: Purpose & goals

• Collect information on environmental/occupational exposure or exposure-related disease of concern to the community

• Use this new information to support public health action

• Evaluate the project’s processes and/or outcomes

• Projects must be co-developed by scientists and community members
# Partnerships For Environmental Public Health

## ARRA & PEPH-related Topics

<table>
<thead>
<tr>
<th>PI</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>Ward (MT/AK)</td>
<td>Air Pollution Outreach, Education, and Research Capacity Building in Alaska Natives</td>
</tr>
<tr>
<td>Wallace (CA)</td>
<td>Assessment of Local Environmental Risk Training</td>
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<tr>
<td>Weitzman (NY)</td>
<td>Preventing Child Residential Lead Exposure By Window Replacement</td>
</tr>
<tr>
<td>Reynolds (CA)</td>
<td>Community Mapping of Environmental Hazards and Barriers in an Immigrant Population</td>
</tr>
<tr>
<td>Miranda (NC)</td>
<td>African Americans and Environmental Cancers: Sharing Histories to Build Trust</td>
</tr>
<tr>
<td>Watkins (NY)</td>
<td>Increasing Capacity &amp; Public Trust: A Strategy for Building Effective Sustainable Partnerships</td>
</tr>
<tr>
<td>Howell (PA)</td>
<td>Recruiting the Next Generation of Environmental Toxicologists</td>
</tr>
<tr>
<td>Dereski (MI)</td>
<td>Integrating Environmental Health-Based Biotechnology into STEM Teaching</td>
</tr>
<tr>
<td>Sicker (MA)</td>
<td>Teachers' Domain: Environmental Health</td>
</tr>
</tbody>
</table>

### Health Disparities:
Building trust between researchers and communities through capacity building in Environmental Public Health

### STEM Education:
Material Development and Professional Development
PEPH Resource Center

- Contract signed 9/29/2009
- Awarded to MDB, Inc.
- 5 year Contract
- Primary Tasks
  - 1. Maintain database and website
  - 2. Evaluate quality of materials
  - 3. Disseminate and develop materials
  - 4. Coordinate Environmental Public Health activities
    - Annual PEPH meeting
    - Monthly webinars
PEPH Meeting

• **Friday, March 12** – Principal Investigators/Project Directors must submit their Conference Scholarship Request (if needed).

• **Friday, March 19** – Poster presenters must submit Poster Abstract forms.

• **Friday, April 2** – Participants must complete the Registration form.

• **Friday, April 2** – Principal Investigators/Project Directors must submit their Project Summary.
PEPH Webinars

• Provide opportunities for NIEHS grantees to share strategies, successes, outcomes, and lessons learned from their on-going activities.
• Enhance progress toward the shared goal of advancing the impact of science-based inquiries of the interactions between environmental exposures and human health
• **Web Seminar #2:** “PEPH Resource Center, Material Development and Section 508: What they have in common.”
  – Date: March 23, 2010
  – Presenter: Gary Morin, NIH
• Input from grantees on cross-cutting topics is welcome.
PEPH: Next 10 Years

- Provide and promote multiple ways for researchers and communities to obtain support for innovative and creative activities that will place them under the PEPH umbrella
  - On-going Program Announcements
  - Funding announcements with set-sides

- PEPH Website
  - Program descriptions
  - Funding opportunities
  - Products and highlights

http://www.niehs.nih.gov/PEPH
PEPH Working Group

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Frederick Tyson, COSPB
Cindy Lawler, COSPB
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Chip Hughes, WETB
Sharon Beard, WETB

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Jerry Phelps, PAB
Christie Drew, PAB
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Dorothy Duke, GMB
Terry Nesbit, SRB
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Stefani Hines, Council Liaison
Hillary Carpenter, Council Liaison