Connecting Disciplines to Inform and Develop the Emerging Field of Environmental Health Literacy

Anna Goodman Hoover, Ph.D., M.A.
Communication Director & Research Translation Co-Lead, University of Kentucky Superfund Research Program Center
Deputy Director, National Coordinating Center for Public Health Services & Systems Research and Public Health PBRNs
Research Assistant Professor, Dept. of Health Management & Policy, College of Public Health

Contact Info:
Anna Hoover, Ph.D
111 Washington Ave.
Room 204C
Co-Leader, Research Translation, UK-SRP
Deputy Director, Natl Coordinating Ctr for PHSSR & PH PBRNs
University of Kentucky
Lexington, KY 40536
Anna.Hoover@uky.edu
859-218-0343

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Roadmap

• Why Environmental Health Literacy?
• Implicated Disciplines
• Examples from the Field
• Whither EHL?
Health Literacy

• **CDC**: The capacity to **obtain, process, and understand basic health information** and services to make appropriate health decisions.

• **AMA**: The ability to **obtain, process and understand basic health information** and services needed to make appropriate health decisions and **follow instructions for treatment**.

• **HRSA**: The capacity to **obtain, process and understand basic health information** needed to make appropriate health decisions and services needed **to prevent** or treat illness.

• **Public Health Literacy**: The degree to which individuals and **groups** can **obtain, process, understand, evaluate, and act on information** needed to make **public health decisions** that benefit **the community**. (Freedman et al, 2009)
Environmental Literacy

• **Campaign for Environmental Literacy**: The capacity… *to act* successfully in daily life based on a broad *understanding* of how people and societies relate to each other and to natural systems…. [and] to incorporate appropriate environmental considerations into daily *decisions* about consumption, lifestyle, career, and civics, and to engage in individual and collective *action*.

• **NAAEE**: The capacity for individuals and groups to make informed *decisions* and *to act* on these decisions [based upon] knowledge and *understanding* of a wide range of environmental concepts, problems, and issues.

• **The Environmental Literacy Council**: A fundamental *understanding* of the systems of the natural world, the relationships and interactions between the living and the non-living environment, and the ability to deal sensibly with problems that involve scientific evidence, uncertainty, and economic, aesthetic, and ethical considerations.
Environmental Health Literacy

Health Literacy

EHL
- individual
- community
- information
- decisions
- action

Environmental Literacy
A Few Implicated Disciplines
MEDICINE

NURSING

TOXICOLOGY

PUBLIC HEALTH
ENVIROMENTAL EDUCATION

ENGINEERING

GEOGRAPHY

POLICY

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Examples from the Field: Case One
Community-Identified Knowledge Gaps from a Superfund NPL Site

Paducah Future Vision Study
- Kentucky’s largest Superfund site
- Chronic risks, statutory complexity
- Stakeholder heterogeneity
- Info Needs: The Site’s Future
- Visual Elicitation

Stakeholder Questions
- What chemicals are “out there”?
- What do the chemicals do to health?
- How much groundwater contamination?
- How are “they” monitoring the waste?
- Could an earthquake disturb the waste?
- What keeps contamination from moving further south?
- Is a wind farm an option for the site after it’s cleaned up?
- How does the site affect my cancer risk?

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Examples from the Field: Case Two
Stakeholder-Identified Knowledge Gaps for Post-Incident Decontamination and Clearance

Post-Crisis Communication Study
• Hypothetical water terrorism scenario
• Heterogeneous audiences
• Information Needs, Preferred Channels, Credible Sources
• Audio Elicitation

Stakeholder Questions
• What are the “national drinking water standards”?
• How was the water tested, and by whom?
• If water isn’t safe for the pregnant, elderly, and children to drink, how can it be safe for me to drink?
• What symptoms should I look for?
• How do I clean my sink after I flush my pipes? My water heater?
• Why should I believe that clear-looking water is dirty?
Whither EHL

- **Who?** Which disciplines are implicated that I didn’t mention?

- **What?** What are the boundary conditions and key constructs for environmental health literacy as a field of inquiry?

- **Where?** In what ways can we privilege context while fostering a foundational set of EHL capabilities?

- **Why?** How does EHL stand apart from similar pursuits?

- **How?** How do we negotiate across implicated disciplines? Create programming and curricula? Measure success?
What piece of the EHL puzzle do YOU have?
References


*Detailed findings from the PGDP Stakeholder Future Vision Project are available at www.paducahvision.com.
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