

Great Lakes Center of Excellence in Environmental Health University of Illinois at Chicago



GLC CEEH Programs



Children's Health | NIOSH ERC | Environmental Health | Occupational Health | Global Health

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UIC University of Illinois at Chicago
SCHOOL OF PUBLIC HEALTH
people serving people

The Great Lakes Center of Excellence in Environmental Health

University of Illinois at Chicago Great Lakes Center of Excellence in Environmental Health is the Academic Environmental Public Health Center for the Midwest Region, funded by the CDC National Center for Environmental Health. This project is designed to address the workforce development needs of environmental health agencies and professionals in the Midwest Region. Some aspects of the project are designed to provide coordination between UIC's School of Public Health and public and environmental health agencies. Other aspects include providing continuing education for the agencies, health hazard evaluations and a pilot grants program.

GLCEEH/Midwest Region States

Click to visit the State Health Services site for each state.

[Illinois](#) | [Indiana](#) | [Iowa](#) | [Kansas](#) | [Michigan](#) | [Minnesota](#)
[Missouri](#) | [Ohio](#) | [West Virginia](#) | [Wisconsin](#)

[Mission Statement](#) | [Advisory Board](#) | [Online Training Lectures](#) | [Health Hazard Evaluation](#)
[Performance Management](#) | [Best Practices](#) | [Faculty and Staff](#) | [How To Get Involved](#)

[Children's Health](#) | [Occupational Health](#) | [Environmental Health](#) | [Health Services](#) | [Global Health](#)

- Education, Training and Technical Materials
 - GeoLibrary
 - Courses
- Health Hazard Evaluations

Why a GeoLibrary?



- Available online information is varied and not conveniently located
- Information is not easily shared
- Searching for needed information is daunting
- Providing just in time resources for educators and practitioners in all parts of the world

Purpose of Geolibrary



- Create an entirely *public domain* international website in occupational and environmental health and safety **educational materials**
- Provide educational materials on the recognition, management, and prevention of occupational and environmental injuries/illnesses for **educators and practitioners**
- Increase awareness of the role of CDC and other partners in addressing global occupational and environmental health training needs

Features



- Six languages
- Search capabilities
- Annotated
- Variety of formats (web-cast, slide show, course and materials, etc.)
- Ability to suggest materials

Library Administration



- 242 materials in the library
- 16 local administrators
 - NIOSH
 - CDC
 - WHO
 - EPA
 - Universities

Home Page: www.geolibrary.org



GeoLibrary.org : Global Environmental and Occupational Health E-Library of Training Materials - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop

Address http://www.geolibrary.org/ Go Links

GeoLibrary Home | Environmental | Occupational English Español Français Русский 中文 عربي

GeoLibrary.org

Both Libraries Search Advanced Search Email This Page

- Home
- About the e-Library
- Acknowledgements
- Environmental Materials
- Occupational Materials
- Suggest Materials
- Contact Us

WELCOME TO GEOLIBRARY.ORG, THE GLOBAL ENVIRONMENTAL AND OCCUPATIONAL HEALTH E-LIBRARY OF TRAINING MATERIALS AND PRACTICE TOOLS.

A circular collage of images showing diverse people in various professional and educational settings: a woman in a lab coat, a man in overalls, a child, a man in a hard hat, and a woman in a lab coat.

Please choose one of the two branches, environmental health training materials or occupational health training materials, or learn more about the e-library from the sidebar menu.

Environmental Materials

Occupational Materials

Site in Spanish



GeoLibrary.org : Global Environmental and Occupational Health E-Library of Training Materials - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://www.geolib.org/library/default.aspx?CategoryID=1

Customize Links Free Hotmail Netscape ISP Try It... RealOne Player Windows Media Windows

GeoLibrary [Página Principal](#) | [Ambiental](#) | [Ocupacional](#) English Español Français Русский 中文 عربي

GeoLibrary.org

Ambiental **Búsqueda avanzada** [Envíe electrónicamente esta página](#)

AMBIENTAL BIBLIOTECA

- General
- Medios
- Peligros
- Ambiente y Enfermedad
- Global
- Práctica en Salud Ambiental
- Gestión Ambiental
- Índice del Sitio
- Acerca de la Biblioteca Electrónica
- Reconocimientos
- Sugiera Materiales
- Contáctenos

BIBLIOTECA AMBIENTAL GLOBAL DE MATERIALES DE ENTRENAMIENTO

Bienvenidos a la rama de Salud Ambiental de la Geolib.org, la Biblioteca Global de Materiales de Entrenamiento en Salud Ambiental y Ocupacional.



Esta página permite consultar únicamente materiales en Salud Ambiental. Si usted desea revisar los materiales en Salud Ocupacional, por favor presione el enlace "Ocupacional" en la parte superior de la página. Usted puede buscar cualquier tópico Ocupacional o Ambiental usando la función de búsqueda de arriba.

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UNIVERSITY OF ILLINOIS AT CHICAGO
Great Lakes Centers for Occupational and Environmental Safety and Health

 World Health Organization  **Abbott**
A Promise for Life

Done

Start 8 Micro... ICOH Milan Eudora - ... Calendar ... 3 Firefox 2 Micros... 11:20 AM

Site in Chinese



GeoLibrary.org : Global Environmental and Occupational Health E-Library of Training Materials - Mozilla Firefox

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GeoLibrary 主页 | 环境 | 职业 English Español Français Русский 中文 عربي

GeoLibrary.org

环境 搜索 高级搜索 电子邮件发送此页

ENVIRONMENTAL 图书馆

- 概要
- 介绍
- 有害因素
- 环境与疾病
- 全球
- 环境卫生规范
- 环境管理
- 站点索引
- 关于 电子图书馆
- 感谢
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全球环境培训资料图书馆

欢迎来到 GeoLibrary.org 环境卫生分支，全球环境和职业培训资料电子图书馆



此页仅提供环境卫生资料的浏览。如果你想浏览职业卫生资料，请点击页面顶端的“职业”链接。你可以用上面的搜索功能来搜索任何职业、环境卫生主题。

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JOHN F. EOGARTY INTERNATIONAL CENTER

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Start 8 Micro... ICOH Milan Eudora - ... Calendar ... 3 Firefox 2 Micros... 11:16 AM

Document Type



GeoLibrary.org : Global Environmental and Occupational Health E-Library of Training Materials - Mozilla Firefox

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http://www.geolibary.org/library/default.aspx?CategoryID=4

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GeoLibrary Home | Environmental | Occupational English Español Français Русский 中文 عربي

GeoLibrary.org

Environmental Search Advanced Search Email This Page

ENVIRONMENTAL LIBRARY

- General
- Media**
 - Air
 - Water
 - Soil
 - Sediment
 - Food
- Hazards
- Environment & Disease
- Global
- Environmental Health Practice
- Environmental Management
- All Categories

About the e-Library
Acknowledgements
Suggest Materials
Contact Us

Environmental > **Media**

Document Type: What is this?

 select another category.

There are no resources

Done

Start 8 Micro... ICOH Milan Eudora - ... Calendar ... 3 Firefox 2 Micro... 11:22 AM

Types of Materials



Geolib.org : Global Environmental and Occupational Health E-Library of Training Materials - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://www.geolib.org/Admin/ResourceType/ManageResourceType.aspx

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Resource Name	Move Up	Move Down	Edit	Delete
Complete Course	Move Up	Move Down	Edit	Delete
Course	Move Up	Move Down	Edit	Delete
Course Outline	Move Up	Move Down	Edit	Delete
Syllabus	Move Up	Move Down	Edit	Delete
Slideshow	Move Up	Move Down	Edit	Delete
Tutorial/module	Move Up	Move Down	Edit	Delete
Webcast	Move Up	Move Down	Edit	Delete
Document	Move Up	Move Down	Edit	Delete
Fact Sheet	Move Up	Move Down	Edit	Delete
Database	Move Up	Move Down	Edit	Delete
Maps	Move Up	Move Down	Edit	Delete
Modeling Tools	Move Up	Move Down	Edit	Delete
Sample/model programs and guidelines	Move Up	Move Down	Edit	Delete
Checklists/forms	Move Up	Move Down	Edit	Delete
Calculators	Move Up	Move Down	Edit	Delete
Case Studies	Move Up	Move Down	Edit	Delete
Tables	Move Up	Move Down	Edit	Delete
Public Information	Move Up	Move Down	Edit	Delete
Other	Move Up	Move Down	Edit	Delete

Done

Start Eudora ... 2 Micr ... 0009 3 Micr ... Microso... Microso... Geolib... 5:58 PM

Environmental Site Index



GeoLibrary.org : Global Environmental and Occupational Health E-Library of Training Materials - Mozilla Firefox

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http://www.geolib.org/Library/SiteIndex.aspx?CategoryID=1&TopLevelCategoryID=1

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Environmental Search Advanced Search Email This Page

ENVIRONMENTAL LIBRARY

- General
- Media
- Hazards
- Environment & Disease
- Global
- Environmental Health Practice
- Environmental Management
- All Categories

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ENVIRONMENTAL LIBRARY SITE INDEX

General (3)

- Core Disciplines
 - Epidemiology & statistics (5)
 - Toxicology (4)
 - Environmental chemistry
 - Environmental engineering (4)
 - Health communication & education (68)
- Exposure Assessment (13)
- Risk Assessment (8)
- Eco-risk
- Risk Communication (17)
- Environmental Medicine (19)
- Taking an Environmental History (4)
- Environmental Policy (7)
- Environmental Justice
- Children's Environmental Health (10)
- The Built Environment (1)
- Poverty & Environment (1)
- Health Disparities (1)
- Essential Services
- Pollution Prevention (1)
 - Green chemistry
- Environmental Management Services (EMS) (2)

Media

- Air (1)
 - Outdoor air pollution

Done

Start Eudora ... 2 Micr... 0009 3 Micr... Microso... GeoLib... Microso... 5:27 PM

Browsing by Index



GeoLibrary.org : Global Environmental and Occupational Health E-Library of Training Materials - Mozilla Firefox

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Environmental Search Advanced Search Email This Page

ENVIRONMENTAL LIBRARY

- General
- Core Disciplines
 - Epidemiology & statistics**
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- Taking an Environmental History
- Environmental Policy
- Environmental Justice
- Children's Environmental Health
- The Built Environment
- Poverty & Environment
- Health Disparities

Environmental > General > Core Disciplines > **Epidemiology & statistics**

Document Type: What is this?

Results: 1-2 of 2

Module 1: Interpreting Your Monitoring Data
Resource Type: Webcast
Target Audience: Public Health professionals, Environmental Health Specialist
Language(s): English
<http://128.248.232.90/archives/eohs/november2004/default.htm>

Principles of Epidemiology in Public Health Practice, Third Edition
Resource Type: Complete Course
Target Audience: Healthcare professionals, Public Health professionals
Language(s): English
<http://www.cdc.gov/training/products/ss1000/ss1000-ol.pdf>

Page: 1

Done

Start | 8 Micro... | ICOH Milan | Eudora - ... | Calendar ... | 3 Firefox | 2 Micros... | 11:33 AM

Advanced Search



ADVANCED SEARCH

Choose from the options below to narrow your search.

Library: Environmental Occupational Both

Description/Title words:

Author or Affiliation:

Category:

Language: English Français 中文
(check all that apply)
 Español РУССКИЙ Arabic

Authored in the:

Added in the:

Document Type:

Resource Type:

Audience:

Level of Difficulty:

Format:

Test: Yes No

On-line Course: Yes No

Environmental Health Materials



- 169 result(s) **Examples:**
- **The Ins and Outs of Integrated Pest Management** Resource Type:WebcastTarget Audience:Public Health professionals, Workers, Occupational Safety & Health Specialist, Environmental Health Specialist, Other Language(s):English <http://128.248.232.90/archives/glakes/excellence/knight/default.htm>
- **Taking an Environmental History** Resource Type:WebcastTarget Audience:Healthcare professionals, Public Health professionals, Environmental Health Specialist Language(s):English <http://128.248.232.56/glakes/excellence/danh/default.htm>
- **Lead Poisoning Prevention & Removal** Resource Type:WebcastTarget Audience:Public Health professionals, Other Language(s):English http://128.248.232.56/glakes/excellence/lead_poison/
- **Brownfields** Resource Type:WebcastTarget Audience:Public Health professionals, Environmental Health Specialist, Other Language(s):English <http://128.248.232.56/glakes/excellence/brownfields/>
- **Spotlight on Children's Environmental Health** Resource Type:WebcastTarget Audience:Public Health professionals, Environmental Health Specialist, Other Language(s):English <http://128.248.232.56/glakes/excellence/suero/>

Environmental Health Materials in Spanish



40 result(s) for: **Language=Español Examples:**

Guidelines for drinking-water quality, third edition, incorporating first addendum Resource Type:Sample/model programs and guidelines Target Audience:Public Health professionals, Other Language(s):English, Español, Français, РУССКИЙ, 汉语, Arabic

http://www.who.int/water_sanitation_health/dwq/gdwq3rev/en/index.html

Guidelines for safe recreational waters Volume 1 - Coastal and fresh waters Resource Type:Sample/model programs and guidelines Target Audience:Public Health professionals, Environmental Health Specialist, Other Language(s):English, Español, Français, РУССКИЙ, 汉语, Arabic

http://www.who.int/water_sanitation_health/bathing/srwe1/en/

Monitoring bathing waters: A practical guide to the design and implementation of assessments and monitoring programmes Resource Type:Sample/model programs and guidelines Target Audience:Public Health professionals, Environmental Health Specialist, Other Language(s):English, Español

http://www.who.int/water_sanitation_health/bathing/bathing3/en/index.html

Lessons Learned



- Materials that are currently on the internet or are file documents can be added to the library
- Goal to have at least one material in each category
- Attending meetings and conferences important for identifying and adding materials to the library
- Local administrators need encouragement
- Interactive DVDs can not be added to the library

Courses



- 7 Introduction to environmental health modules
- 20 webcasts
- Classroom based courses

Webcasts

www.uic.edu/sph/glakes/excellence



- [Disease & Vector Management of West Nile Virus](#)
- [Taking an Environmental History](#)
- [Cancer Clusters](#)
- [Taking an Occupational History](#)
- [Spotlight on Children's Environmental Health](#)
- [DPH Safe Chemicals in School Projects](#)
- [Industrial Hygiene: Assessment, Controls, Design and Prevention](#)
- [West Nile Virus Update](#)

Public Health 470 Series: Environmental Health



- *Public Health 470 Series: Environmental Health*
 - **Document Catalog**
- **PH 470 Series Syllabus & Resources**
- [PH 470 Series Syllabus](#)
- [PH 470 Series Resources](#)
- **PH 470 Series (Environmental Health) Courses**
- *Public Health 470 Series*
- PH 471: What Is Environmental Health?
 - [Overview](#)
 - [Exercises](#)
- PH 472: Human Health Effects of Environmental Exposures
 - [Overview](#)
 - [Exercises](#)
- PH 473: Source and Hazard Assessment
 - [Overview](#)
 - [Exercises](#)
- PH 474: Qualitative Risk Assessment
 - [Overview](#)
 - [Exercises](#)
- PH 475: Environmental Health Risk Communication
 - [Overview](#)
 - [Exercises](#)
- PH 476: Quantitative Exposure Assessment: Lead Poisoning
 - [Overview](#)
 - [Exercises](#)
- PH 477: Environmental Prevention and Control: West Nile Virus
 - [Overview](#)
 - [Exercises](#)
- **Readings** (*no text; learning resources are identified in each course*)

Webbased Case Studies

www.uic.edu/sph/glakes/ce



- **Pediatric Toxicology**

- **This series of interactive case studies will orient the user to important topics in pediatric environmental health. Within the context of a clinical scenario, important information regarding the diagnosis and management of environmental illness will be presented. Additionally, emphasis will be placed on the public health aspects of pediatric environmental illness. The cases are intended for providers involved in the care of children as well as public health practitioners and other health care providers with an interest in environmental health and medicine.**
- **The content of this case was developed by Jeffrey Derr, MD; Linda Forst, MD MPH; Anne Krantz, MD MPH; Daniel Hryhorczuk, MD MPH; Jacqueline Wuellner, RN, MPH. The web design on this case was developed by the Center for the Advancement of Distance Education (CADE) at the University of Illinois-Chicago School of Public Health.**
- **Development of this course was funded by the Association of Occupational and Environmental Clinics, Agency for Toxic Substances and Disease Registry, and the Environmental Protection Agency.**
- [Association of Occupational and Environmental Clinics](#)
- [Agency for Toxic Substances and Disease Registry](#)
- [USEPA Region Five](#)

Classroom based courses examples



- Mold and Moisture Introduction
- Mold and Moisture 2 day course
- Recognition, Assessment and Prevention of Bio Chemical Incidents
- Healthy Homes
- Radon Inspection
- Program Evaluation

HHE Program: A Model for Other States



What is an HHE?

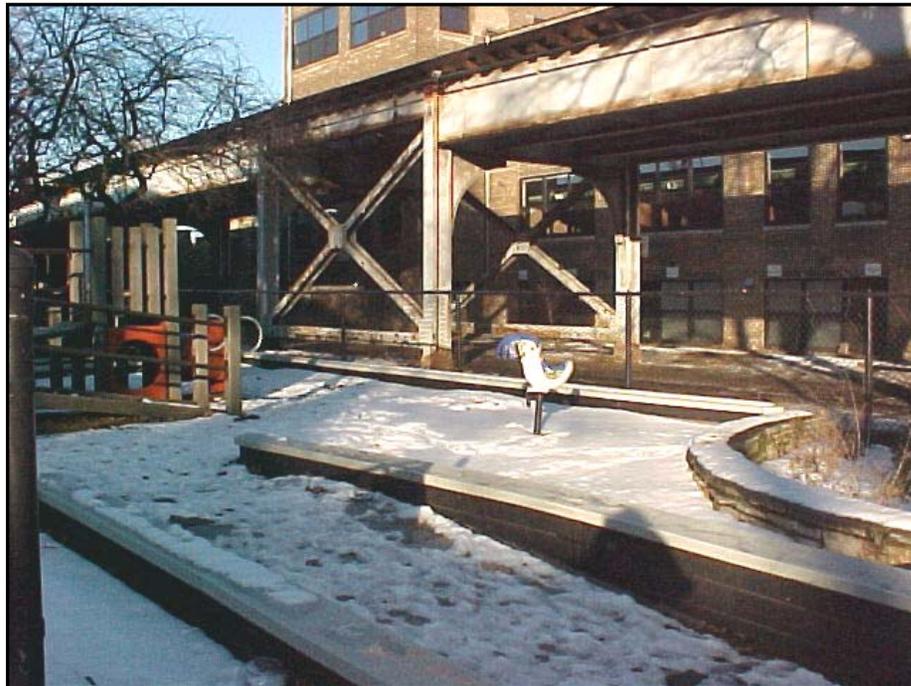
- An investigation of an environmental public health issues outside scope/capacity of public health agencies
- Historical precedent at UIC/GLC
- Justification: 1st CEEH Task Force agreed that HHEs must:
 - Address a community health issue;
 - Coordinate w/ Illinois Department of Public Health, and;
 - Include participation w/ local PH personnel where possible & develop new techniques for investigation if necessary

Some HHEs performed with CEEH Funding



Soil Lead Contamination in Playgrounds near local transit authority elevated train lines

- Participation: Local HD coordination w/ CDPH CLPPP
- Number of people affected: In hundreds



Asbestos

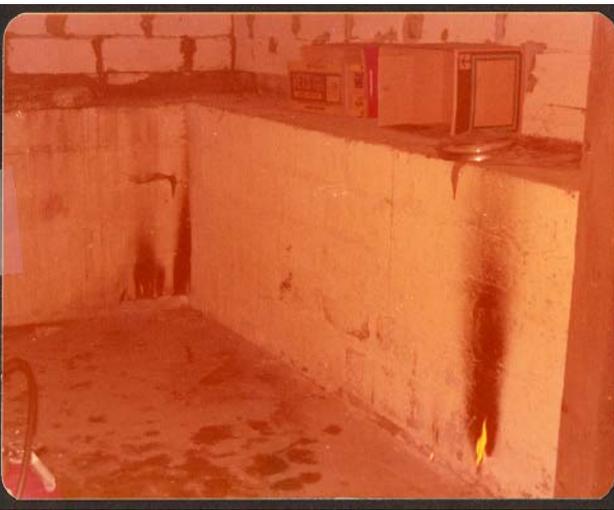
Illinois Beach State Park



- Participation: IDPH, IDNR, IEPA, EPA Air and Superfund, Illinois Attorney General, US Army Corp of Engineers
- Number of people affected: Thousands of annual visitors, park staff



Hartford, IL Vapor Intrusion in Homes: Linked to Weather Conditions and River Level



Model Program



- Assess current capabilities and needs of state partners in our Partnership Meetings
- Promote or adapt our model to state partners who are interested
- Provide technical assistance and guidance until the state HHE teams are able to function independently
- HHEs constitute intervention, vs. CE and prevention

Lessons learned



Successful functioning of joint health department and academic PH center involves 7 issues:

- Memo of Understanding to conduct HHEs
 - May indemnify state & state-funded agencies, documents state-sponsored activity
- HHEs often multi-disciplinary
 - Require expertise in exposure assessment, health assessment, & risk communication; program credibility ensures assistance from federal agencies & experts in relevant fields

More lessons



- HHEs should provide practical training & research insights & opportunities
 - For health departments
 - For academic students & faculty
- State HDs should have mechanism to involve local health departments in community issues

Lessons learned



- Funding may come from a variety of sources:
 - Contributed time & equipment
 - Fees or contributions from interested parties
 - Efficiencies in established program...
- HHEs should be transparent:
 - With appropriate confidentiality for affected parties and especially individuals
 - Sensitive & non-public issues may be better served by private industry

Feedback



- How can we get other states & universities interested in implementing a new (& probably unfunded) HHE program?