



# OpenCourseWare Disseminates Public Health Knowledge to the World

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Director

Center for Teaching and Learning with Technology

# Learning Objectives

- Describe OpenCourseWare (OCW), its potential to improve public health capacity, and its scope of use
- List processes used to develop an OpenCourseWare program at a School of Public Health
- Develop a plan for an OpenCourseWare program

# Address the Following

- What is OCW?
- Why does JHSPH participate?
- What are some barriers?
- How do we do it (the process)?
- Are we reaching the goals?
- What are the results and feedback?

# OpenCourseWare (OCW)

- Is a free and open digital publication of high quality educational materials (organized as courses)
- Is a snapshot of courses (recently offered)
- Does not provide credit/certification or access to instructors

<http://ocw.jhsph.edu>

# Content of JHSPH OCW

- 56 courses (didactic and seminar series)
  - Goal 80-100 courses
- 15 topic areas (for example - adolescent health, behavior and health, biostatistics, environment, global health, health policy, nutrition, preparedness, etc.)
- Lecture slides (pdf), readings, assignments, syllabus, schedule, audio files (in some)

# JHSPH OPENCOURSEWARE

Johns Hopkins Bloomberg School of Public Health

**SEARCH**

Find individual course content listed by topic or [view a complete list of course content](#)

The Johns Hopkins Bloomberg School of Public Health's OPENCOURSEWARE (OCW) project provides access to content of the School's most popular courses. As challenges to the world's health escalate daily, the School feels a moral imperative to provide equal and open access to information and knowledge about the obstacles to the public's health and their potential solutions.

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**COURSES BY TOPIC**

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**Most Recent Courses**

Adolescent Health

Behavior and Health

Biostatistics

Environment

General Public Health

Global Health

Health Policy

Injury Prevention

Maternal and Child Health

Mental Health

Nutrition

Population Science

Presentations

Public Health Preparedness

Refugee Health

To receive the upcoming free OCW newsletter via email, please [click here](#) to register. We will not share your information with any third party.



Malariology

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The Bloomberg School's OCW

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[JHSPH OpenCourseWare](#) >> [Epidemiology of Infectious Diseases](#)

## 340.627.81 Epidemiology of Infectious Diseases



### Staff

Instructor:  
Kenrad Nelson

### Originally Offered

Fall 2006

### Offered By

[Department of  
Epidemiology](#)

### Description

Introduces the basic methods for infectious disease epidemiology and case studies of important disease syndromes and entities. Methods include definitions and nomenclature, outbreak investigations, disease surveillance, case-control studies, cohort studies, laboratory diagnosis, molecular epidemiology, dynamics of transmission, and assessment of vaccine field effectiveness. Case-studies focus on acute respiratory infections, diarrheal diseases, hepatitis, HIV, tuberculosis, sexually transmitted diseases, malaria, and other vector-borne diseases.

### Course Objectives

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## Lecture Materials

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- > [Lecture 1: Introduction to Infectious Disease Epidemiology \(Nelson\)](#)
- > [Lecture 2: Overview of Microbiology \(Dick\)](#)
- > [Lecture 3: The Molecular Epidemiology of Infectious Disease \(Bishai\)](#)
- > [Lecture 4: Modeling of Infectious Disease \(Aron\)](#)
- > [Lecture 5: Case-Control Studies \(Nelson\)](#)
- > [Lecture 6: Vaccines - Impact, Questions, and Challenges \(Halsey\)](#)
- > [Lecture 7: Measles \(Moss\)](#)
- > [Lecture 8: Disease Eradication \(Nelson\)](#)





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## *Introduction to Infectious Disease Epidemiology*

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Kenrad Nelson, MD  
Johns Hopkins University

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[JHSPH OpenCourseWare](#) >> The History of Public Health

## 550.605.81 The History of Public Health



### Staff

Instructor:  
Graham Mooney, PhD

### Originally Offered

Spring 2005

### Description

In the *History of Public Health* we will examine the historical experience of health and illness from a population perspective. This material seeks to reveal how the organization of societies facilitates or mitigates the production and transmission of disease. It also asks how do populations and groups of individuals go about securing their health? One key theme is the medical management of space in one form or another - from the public space of the environment through institutional spaces such as schools and workplaces to personal/individual body space. The progression of the lectures reflects this, working "inwards" from the environment to individuals.

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## Lecture Notes

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*Lecture files for this course are provided in .mp3 format. You will need an MP3 Player (iTunes, Windows Media Player, RealPlayer, etc.) to listen to them. This work is licensed under a [Creative Commons Attribution-NonCommercial-ShareAlike License](#). Your use of this material constitutes acceptance of that license and the conditions of use of materials on this site.*

### > [Lecture 1: A History of Modern Public Health: Introduction](#)

[Part A](#) (2.85 MB)

[Part B](#) (1.69 MB)

[Part C](#) (1.94 MB)

[Part D](#) (2.11 MB)

[Part E](#) (1.68 MB)

### > [Lecture 2: Quarantine!](#)

[Part A](#) (2.56 MB)

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[JHSPH OpenCourseWare](#) >> [Nutritional Health, Food Production, and the Environment](#)

## 180.620.81 Nutritional Health, Food Production, and the Environment



### Staff

Instructor:  
Bob Lawrence and Polly Walker

### Originally Offered

Fall 2006

### Offered By

[Environmental Health Sciences](#)

### Description

This course provides an understanding of the complex and challenging public health issue of food security and in a world where one billion people are under-nourished while another billion are overweight. Explores the connections among diet, the current food production system, the environment and public health, considering factors such as economics, population and equity. Case studies are used to examine these complex relationships and as well as alternative approaches to achieving both local and global food security and the important role public health can play.

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## Lecture Materials

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*Lecture slides and accompanying audio are presented below for each session.*

*The slides are presented in PDF, and the recorded lectures are presented in MP3. Although the two media are not technically synchronized, users can achieve a synchronized effect by opening a PDF and following along while listening to the corresponding MP3.*

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### Module 1 - Food Security: Diet, Food Production, Health and the Environment

#### > Lecture 1

Overview and Conceptual Framework for the Course (Bob Lawrence and Polly Walker)

[Slide Presentation \(PDF; 1.9 MB\)](#)

[Part A](#) - [Part B](#) - [Part C](#) - [Part D](#) - [Part E](#)

### Module 2 - An Ecological Perspective: Food Production and the Environment

#### > Lecture 2

What Does Agriculture Have to Do with Public Health? (Fred Kirschenmann)

[Slide Presentation \(PDF; 1.5 MB\)](#)

[Part A](#) - [Part B](#) - [Part C](#)



# Why Does JHSPH Participate in OCW Project?


# Mission

The Johns Hopkins Bloomberg School of Public Health is dedicated to the education of a diverse group of research scientists and public health professionals, a process inseparably linked to the discovery and application of new knowledge, and through these activities, to the improvement of health and prevention of disease and disability around the world.

# Disseminate Knowledge to the World

Degrees    Certificates    Continuing Education    OCW

Education spectrum



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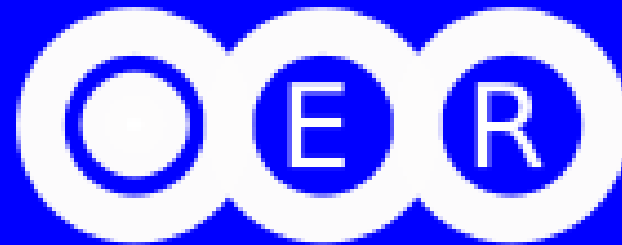
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Free



# Foster 'Culture of Contribution' in Education



Open  
Educational  
Resources

# JHSPH OCW Image Library

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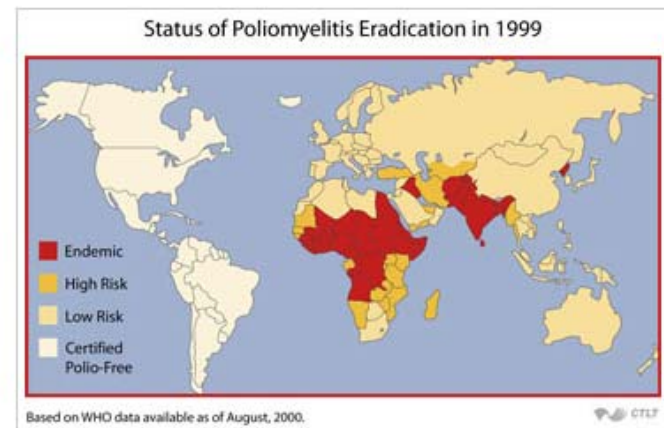
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"Status of Poliomyelitis Eradication in 1999," from [Epidemiology of Infectious Diseases](#)

in development

A large, stylized, light-colored leaf graphic is positioned on the left side of the slide, partially overlapping the text. The leaf has a central vein and several smaller veins branching out, creating a fan-like shape. The background is a light beige color with a subtle gradient.

# Provide Visibility for Faculty



# Provide Content for Students and Alumni

# Attract Prospective Students (?)

MPH 07 Student survey

“Did OCW influence your decision to enroll at JHSPH?”

37/40 No



OpenLearn

# LearningSpace

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Japanese | English

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# OCW Consortium

“A collaboration of 150+ higher education institutions and associated organizations from around the world creating a broad and deep body of open educational content using a shared model.”

<http://www.ocwconsortium.org>



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An OpenCourseWare site...

- is a free and open digital publication of high quality educational materials, organized as courses.

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t:health

English (English)

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growth (53)	absolute (1)
<b>health (145)</b>	access (3)
heat (36)	accountability (1)
high (15)	accounting (1)
historical (36)	accuracy (1)
history (228)	acoustic (2)
housing (23)	acoustical (2)
human (104)	acoustics (3)

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[A Clinical Approach to the Human Brain 9.22J, Fall 2006 \(MIT\)](#) [Show Details](#)

[Acoustics of Speech and Hearing 6.551J, Fall 2004 \(MIT\)](#) [Show Details](#)

[Adolescent Health and Development \(JHSPH\)](#) [Show Details](#)

[Aerospace Biomedical and Life Support Engineering 16.423J, Spring 2006 \(MIT\)](#) [Show Details](#)

[AIDS and Poverty in Africa SP.253, Spring 2005 \(MIT\)](#) [Show Details](#)

[Archery PE.730, Spring 2006 \(MIT\)](#) [Show Details](#)

[Big Plans 11.123, Spring 2003 \(MIT\)](#) [Show Details](#)

[Bioethics STS.006J, Spring 2006 \(MIT\)](#) [Show Details](#)

[Biological Agents of Water and Foodborne Bioterrorism \(JHSPH\)](#) [Show Details](#)

[Biomaterials-Tissue Interactions \(BE.441\) 20.441, Fall 2003 \(MIT\)](#) [Show Details](#)

[Biomedical Engineering Seminar Series: Developing Professional Skills HST.590, Fall 2006 \(MIT\)](#) [Show Details](#)

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**invenio:** to come upon, find, discover. \*

\*: Latin – English Dictionary

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### [Epidemiology of Infectious Diseases](#)

... taking the course in Infectious Diseases Epidemiology students will be able ... main Epidemiological characteristics of the Major infectious diseases of Humans. ...

### [IDP200 Pathophysiology of Infectious Diseases, Fall 2004/2005 - OpenCourseWare - Tufts University](#)

A free and open educational resource for faculty, students, and self-learners ... in the consequences of infectious diseases worldwide in the past quarter ...

### [Epidemiology of Infectious Diseases : Syllabus](#)

JHSPH OpenCourseWare >> Epidemiology of Infectious Diseases ... main Epidemiological characteristics of the Major infectious diseases of Humans. ...

### [Epidemiology of Infectious Diseases : Schedule](#)

JHSPH OpenCourseWare >> Epidemiology of Infectious Diseases ... Introduction to Infectious Disease Epidemiology (Nelson) Lecture 1. 2 ...

### [Building the Evidence Base on the Provision of Health Care to Children in Complex Emergencies](#)

(application/pdf)

Death Rates for Common Infectious Diseases in the United States in 1900, 1935, and 1970 ... Because infectious diseases have been largely controlled in the ...

### [Epidemiology of Infectious Diseases : Readings](#)

JHSPH OpenCourseWare >> Epidemiology of Infectious Diseases ... Infectious Disease Epidemiology: Theory and Practice. Second Edition. ...

### [1. Practice Quiz #1 Pathophysiology of Infectious Diseases 2. Question 1 - A true fact about infectious diseases is:](#) (application/pdf)

Question 1 - A true fact about infectious diseases is: Tufts OpenCourseWare ... Fall 2004. OCW: Pathophysiology of Infectious Diseases (S. Hadley) Page - 7 ...



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# How To Develop an OCW

- Make the case to faculty and administration
- Overcome the intellectual property issues
- Share publication process
- Tackle technology

# OCW Publishing Process

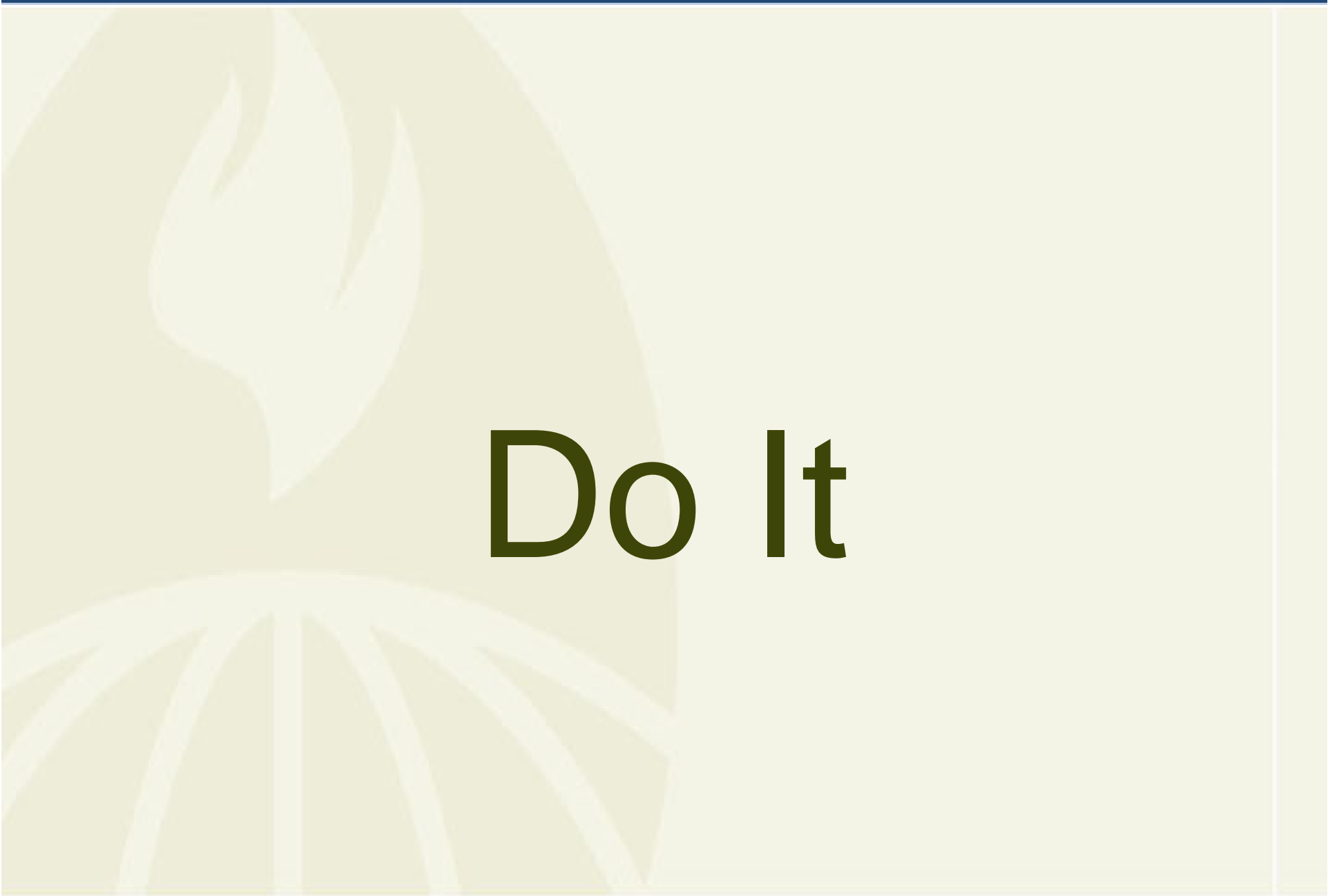
- Identify appropriate faculty
- Acquire content (text, slides, other media, additional course materials)
- ‘Scrub’ content (slides) to identify and handle (replace/remove) copyright objects
- Create institutional OCW templates or use OCW open-source publishing software (e.g. eduCommons)
- Publish



# Barriers

- Faculty concern
  - Why give away content?
  - How much additional work?
  - What do I get out of it?
- Institutional concern
  - Impact on enrollment/revenues
  - Intellectual property issues - copyright
  - Resources/cost and sustainability
- Technical needs
  - Content availability
  - Publishing process
- Others
  - Quality control
  - Commercialization





**Do It**

## Trend of Visits to the OCW Website 2005 - 2007



# OCW User Survey

Oct 06 - May 07 N=474

- 52% Self-learners, 25% Students, 14% Faculty
- “Enhance personal knowledge” #1 reason (43%-63%)
- Others -“Complement a course”, “Prepare to teach a course”, “Keep current”
- Fields of interest - Env health, health policy, health management, international health, behavioral science, nutrition, infectious diseases, etc.

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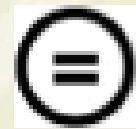
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# Use It



<http://ocw.jhsph.edu>



# Anecdotes

- I am teaching a course called Disease and Health in Latin America as a junior level history course. The readings and lectures on line were very helpful in helping me to conceptualize the course, its goals, and the kinds of sources that might work. - Faculty, Ithaca College
- I found some of the statistics presented very interesting and will add some to my courses. I found the Food Policy issue very interesting and wanted to see the outline of the presentation. - Faculty, Pennsylvania State University

# Anecdotes

- I will use what I learned from JHSPH OCW to develop courses for students in a Master of Health Care Education Program. - Faculty, Western Governors University
- I am an environmental activist because of what I know about the health effects of pollution. It is true that our homes are a major source, but where I live in Texas we have very severe air pollution problems. I am currently lobbying our state legislators to change the laws on pollution in Texas. - Physician



Johns Hopkins SPH OpenCourseWare  
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The William and Flora Hewlett Foundation

# Thank you

Sukon Kanchanaraksa

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APHA Annual Conference 2007

Session 5025.0

Innovative Public Health Teaching Methods

Wed Nov 7, 2007 8:30 AM-10:00 AM

Marriott Metro Center

Washington D.C.