

**Epidemiology 786:
Community-Driven Epidemiology and Environmental Justice
Schedule - Spring 2009
1:00-2:50 Wednesday, 1304 McGavran-Greenberg Hall**

Please check the schedule regularly for changes and additions

1. January 14: Popular movements, public health, and community-driven epidemiology.

Bullard RD & Johnson GS, Environmental Justice: Grassroots Activism and Its Impact on Public Policy Decision Making. *Journal of Social Issues*. 56: 555-578, 2000.

Wing, S. Environmental justice, science and public health. In: Goehl TJ (ed.) *Essays on the Future of Environmental Health Research: A Tribute to Dr. Kenneth Olden*. Research Triangle Park, NC: National Institute of Environmental Health Sciences, 2005.

2. January 21: Design, measurement and causal inference in occupational and environmental epidemiology.

Clapp RW, Ozonoff D. Environment and health: vital intersection or contested territory? *Am J Law Med*. 2004;30(2-3):189-215.

Paddle GM, Harrington JM. Environmental epidemiology--strengths and weaknesses. *Int Arch Occup Environ Health* 2000;73:7-14.

Wing S. Whose epidemiology, whose health? *International Journal of Health Services*, 28:241-252, 1998.

3. January 28: The environmental justice movement in North Carolina. Guest speaker: Gary Grant, Executive Director, [Concerned Citizens of Tillery \(CCT\)](#)

Concerned Citizens of Tillery statement on Environmental Justice and the Environmental Community.

A Statement of Philosophy and Mission for Health Care.

A provisional document prepared by the African American Environmental Justice Action Movement: Defining the Role and Principles of Lawyers and Academicians in the Environmental Justice Movement, October 1997.

Wing S, Grant G, Green M, Stewart C. Community based collaboration for environmental justice: south-east Halifax environmental reawakening. *Environment and Urbanization* 1996; 8(2): 129-139.

Jensen, Robert. White privilege shapes the US. Baltimore Sun, 19 Jul 1998: C-1.

Washington Office of Environmental Justice. Principles of Environmental Justice. April 1996.

4. February 4: Community perspectives – Confined animal feeding operations. Guest speakers: Naeema Muhammad, NC Environmental Justice Network; Norma Mejia and Clifton Pearsall, Rural Empowerment Association for Community Help (Postponed due to snow in Duplin Co.)

NC Environmental Justice Network. ...the Rest of the Story: Corporate Hog Farming in NC. (video) can be viewed at: <http://video.yahoo.com/watch/278778/1988871>

Lee J. Neighbors of Vast Hog Farms Say Foul Air Endangers Their Health. New York Times, May 11, 2003.

Tajik M, Muhammad N, Lowman A, Thu K, Wing S, Grant G. Impact of odor from industrial hog operations on daily living activities. New Solutions: A Journal of Occupational and Environmental Health Policy. 18:193-205, 2008.

Thu K. Agriculture, the environment, and sources of state ideology and power. Culture&Agriculture. 23(1):1-7, 2001.

5. February 11: Concepts, principles, and methods of community-based participatory research.

Leung MW, Yen IH, Minkler M. Community based participatory research: a promising approach for increasing epidemiology's relevance in the 21st century. 2004 Int. J. Epidemiol. 33: 499-506

Israel BA, Parker EA, Rowe Z, Salvatore A, Minkler M, López J, Butz A, Mosley A, Coates L, Lambert G, Potito PA, Brenner B, Rivera M, Romero H, Thompson B, Coronado G, Halstead S. Community-based participatory research: lessons learned from the Centers for Children's Environmental Health and Disease Prevention Research. Environ Health Perspect. 2005 Oct;113(10):1463-71.

Minkler M, Vasquez VB, Tajik M, Petersen D. Promoting environmental justice through community-based participatory research: The role of community and partnership capacity. Health Education and Behavior 2006;XX:p-p.

For further reading:

Coughlin SS. Environmental justice: the role of epidemiology in protecting unempowered communities from environmental health hazards. The Science of the Total Environment 1996; 184:67-76.

Tajik M, Minkler M. Environmental justice research and action: A case study in political economy and community-academic collaboration. *International Quarterly of Community Health Education*; 2007; 26:213-231.

6. February 18: Community perspectives – Confined animal feeding operations. Guest speakers: Naeema Muhammad, NC Environmental Justice Network; Norma Meijia and Clifton Pearsall, Rural Empowerment Association for Community Help

Wing S, Horton R, Muhammad N, Grant G, Tajik M, Thu K. Integrating epidemiology, education, and organizing for environmental justice: Community health effects of industrial hog operations. *American Journal of Public Health*. 98:1390-1397, 2008.

Cole D, Todd L, Wing S. Concentrated Swine Feeding Operations and Public Health: A Review of Occupational and Community Health Effects. *Environmental Health Perspectives*, 108:685-699, 2000.

7. February 25: Community perspectives – Local impacts of land application of sewage sludge. Naeema Muhammad, NC Environmental Justice Network; Arthur B. Hall, C. Gerald Koonce, and Don Webb, Statonsburg, NC.

Harrison, Ellen Z., Oaks, Summer R. Investigation of Alleged Health Incidents Associated with Land Application of Sewage Sludges, *New Solutions* 12(4): 387-408, 2002.

Shields H. Sludge Victims: Voices from the Fields. *New Solutions* 12(4) 363-370, 2002

Arthurson V. Proper sanitation of sewage sludge: A critical issue for a sustainable society. *Applied and Environmental Microbiology* 74:5267-5275, 2008.

8. March 4: Research design – Local impacts of CAFOs and land application of sewage sludge. Guest respondent: Prof Dick Clapp, Boston U Department of Environmental Health.

National Research Council of the National Academies. Chapter 3: Epid Evidence of Health Effects Associated with Biosolids Production and Application in Biosolids Applied to Land: Advancing Standards and Practices, The Nat Acad Press 2002. pp 106-122.

Rule AM, Evans SL, Silbergeld EK. Food animal transport: A potential source of community exposures to health hazards from industrial animal farming (CAFOs). *Journal of Infection and Public Health* 1:33-39, 2008.

Sneeringer S. Does animal feeding operation pollution hurt public health? A national longitudinal study of health externalities identified by geographic shifts in livestock production. *American Journal of Agricultural Economics* 91:124-137, 2009.

March 11: Spring Break

- 9. March 18: Worker Perspectives – The mental health industry. Guests: Pat Swann, former hospital worker; Inez Banks, nurse; Josh Reynolds, UE-150 organizer; Naeema Muhammad, NCEJN**

News and Observer articles

Campaign for an N.C. Mental Health Workers Bill of Rights (video):
<http://www.indyweek.com/gyrobase/Content?oid=oid%3A263347>

- 10. March 25: Research design: The mental health industry.**

Nachreiner NM et al. Impact of training on workplace assault. *Research in Nursing and Health* 28:67-78, 2005.

Kindy D, Peterson S, Parkhurst D. Perilous work: Nurses' experiences in psychiatric units with high risks of assault. *Archives of Psychiatric Nursing* 19:169-175, 2005.

OSHA. Guidelines for Preventing Workplace Violence for Health Care and Social Service Workers. US Department of Labor, OSHA 3148, Washington, DC: OSHA Publications Office, 1998 (revised).

*****Project Topics Due *****

- 11. April 1: Objectivity, ethics and advocacy in community-driven epidemiology**

Savitz D, Poole C, Miller W. Reassessing the role of epidemiology in public health. *Am J Pub Health*, 89:1158-1161, 1999, comment by Stenvig, 2000.

Yeoman, Barry. "Putting Science in the Dock." *The Nation*, March 26, 2007, pp 22-28.

Wing, S. Social responsibility and research ethics in community driven studies of industrialized hog production. *Environmental Health Perspectives*, 110:437-444, 2002.

- 12. April 8: Project Presentations**

- 13. April 15: Project Presentations**

- 14. April 22: Project Presentations & Course Evaluations**