

January, 2019

**CURRICULUM VITAE**

JONATHAN ALAN PATZ, MD, MPH

**PERSONAL DATA**

John P Holton Chair of Health and the Environment  
 Director, Global Health Institute  
 Professor, Nelson Institute for Environmental Studies & Dept. Population Health Sciences  
 University of Wisconsin –Madison  
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**EDUCATION AND TRAINING**

**B.A./1980** Colorado College / Biology

**M.D./1987** Case Western Reserve University, School of Medicine

*Postdoctoral Training*

1987-'90 **Family Medicine Residency**  
 Medical University of South Carolina, Charleston, South Carolina

**MPH/1992** **Masters of Public Health Program**  
 Johns Hopkins School of Hygiene and Public Health, Baltimore, Maryland.

1993-'94 **Occupational and Environmental Medicine Residency**  
 Johns Hopkins School of Hygiene and Public Health, Baltimore, Maryland

*Medical Licensure*

Maryland (active) -D42440, Montana (inactive)

*Medical Boards*

1990 **American Board of Family Practice Certification (Recertified, 1996)**  
 1997 **American Board of Occupational and Environmental Medicine**

**PROFESSIONAL EXPERIENCE**

2015- Current **John P. Holton Chair of Health and the Environment**

2011- Current **Director**, Global Health Institute, University of Wisconsin-Madison

2008-Current **Professor**, Nelson Institute for Environmental Studies & Department of Population Health Sciences, University of Wisconsin-Madison; **Faculty Affiliate** of the La Follette School of Public Affairs.

2004-2008 **Associate Professor**, Nelson Institute for Environmental Studies; & Department of Population Health Sciences, University of Wisconsin-Madison.

2004-Current **Adjunct Associate Professor**, Department of Environmental Health Sciences, Johns Hopkins Bloomberg School of Public Health.

- 2004-Current **Affiliate Scientist**, National Center for Atmospheric Research (NCAR)
- 1999- 2004 **Assistant Professor**, Department of Environmental Health Sciences, Johns Hopkins Bloomberg School of Public Health.  
**Joint Appointments:** Departments of: 1) Molecular Microbiology & Immunology; 2) Epidemiology; 3) International Health; 4) Medicine (School of Medicine); 5) Earth and Planetary Sciences (School of Arts and Sciences).
- 1997-99 **Assistant Scientist**, Department of Environmental Health Sciences, Johns Hopkins Bloomberg School of Public Health.
- 1996- 2004 **Founding Director**, Program on Health Effects of Global Environmental Change, Johns Hopkins Bloomberg School of Public Health.
- 1994-96 **Research Associate** – Department of Molecular Microbiology & Immunology, Johns Hopkins Bloomberg School of Public Health.
- 1990-94 **Clinician**, Family Practice  
Missoula, Montana and Baltimore, Maryland.  
Practiced clinical family medicine.
- 1981-83 **Research Assistant**, Children's Hospital, Boston, MA.  
Researched early biomarkers for breast malignancies in cancer strain mice.
- 1979-80 **Wildlife Biologist**, Colorado Division of Wildlife and Peregrine Falcon Fund.  
Analyzed prey species DDT content and traced geographic pathway of this pesticide.

## HONORS AND AWARDS

### *Awards*

2017 Special Recognition Award, Medical Alumni Board of the Case Western University, School of Medicine

Rotary International, Paul Harris Fellow Award, 2017

Homer Calver Award for Leadership in Environmental Health, American Public Health Association, 2015  
<https://ghi.wisc.edu/patz-receives-apha-award-for-environmental-leadership/>

Fulbright Scholar Award, 2014

Bioneers Award, Dane County, WI, 2012.

H.I. Romnes Faculty Fellowship Award of the University of Wisconsin, 2009

Nobel Peace Prize, 2007 (awarded to UN IPCC Lead Authors & Co-chairs, along with Al Gore)

Zayed International Prize for the Environment, 2006 (awarded to Lead Authors and Co-chairs of the Millennium Ecosystem Assessment)

Aldo Leopold Leadership Fellow, 2005

Senior Fellow of the UW Program for World Affairs and the Global Economy, 2005- current

Family Medicine Teaching Award, 1989.

## PUBLICATIONS

### Peer Reviewed Journal Articles

Sippy R, Herrera D, Gaus D, Gangnon R, Osorio J, and **Patz J**. Seasonality of Dengue Fever in Rural Ecuador: 2009-2016. *PLOS NTDs*, Dec, 2018. <http://dx.doi.org/10.1101/452318>

Mora C. et al. Broad threat to humanity from cumulative climate hazards intensified by greenhouse gas emissions. *Nature Climate Change* 8 (12): 1062. <https://doi.org/10.1038/s41558-018-0315-6>

Limaye VS, Vargo J, Harkey M, Holloway T, **Patz JA**. (2018), Climate Change and Heat-Related Excess Mortality in the Eastern USA. *EcoHealth*, August, 2018, <https://doi.org/10.1007/s10393-018-1363-0>


Stull VJ, Finer E, Bergmans R, Febvre H, **Patz JA**, Weir TL. Impact of Edible Cricket Consumption on Gut Microbiota in Healthy Adults, a Double-blind, Randomized Crossover Trial. *Scientific Reports* 2018 (in press). <http://dx.doi.org/10.1038/s41598-018-29032-2>

**Patz JA** and West JJ. The Paris Agreement could save lives in China. *Lancet Planetary Health* 2018; April:2(4):147-148. [http://dx.doi.org/10.1016/S2542-5196\(18\)30052-4](http://dx.doi.org/10.1016/S2542-5196(18)30052-4)

Abel DW, Holloway T, Harkey M, Meier P, Ahl D, Limaye VS, **Patz JA**. (2018) Air-quality-related health impacts from climate change and from adaptation of cooling demand for buildings in the eastern United States: An interdisciplinary modeling study. *PLoS Med* 15(7): e1002599. <https://doi.org/10.1371/journal.pmed.1002599> [4 citations, 1-3-2019]

Meier P, Holloway T, **Patz J**, Harkey M, Ahl D, Scott Schuetter S, Hackel S. Impact of warmer weather on emissions due to building energy use. *Environmental Research Letters*; 2017; 12: 064014. <https://doi.org/10.1088/1748-9326/aa6f64>

Abel D, Holloway T, Kladar RM, Meier P, Ahl D, Harkey M, Schuetter S, **Patz J**. Response of Power Plant Emissions to Ambient Temperature in the Eastern United States. *Environmental Science and Technology* (2017) in press. <http://dx.doi.org/10.1021/acs.est.6b0620>

**Patz JA**. Solving the global climate crisis: the greatest health opportunity of our times?  *Public Health Reviews*. <https://doi.org/10.1186/s40985-016-0047-y>

Levy BS and **Patz JA**. Climate change, human rights and social justice. *Annals of Global Health*, 2015; 81 (3); 310-322. <http://doi.org/10.1016/j.aogh.2015.08.008>

Goldberg T and **Patz JA**. The need for a global health ethic (Comment). *The Lancet*, July 16, 2015 [http://dx.doi.org/10.1016/S0140-6736\(15\)60757-7](http://dx.doi.org/10.1016/S0140-6736(15)60757-7)

**Patz JA**, Frumkin H, Haines A. Adapting to climate change –reply, *JAMA*, 313 (7):727-8. <http://doi.org/10.1001/jama.2014.18525>

Lee E, Burkhart J, Olson S, Billings AA, **Patz, JA**, Harner EJ. Relationships of climate and irrigation factors with malaria parasite incidences in two climatologically dissimilar regions in India. *International Journal of Climatology*, 2015, in press. <https://doi.org/10.1016/j.jaridenv.2015.08.010>

Rodríguez-Villamizar, Laura A.; González, Beatriz Elena; Vera, Lina María; Patz, Jonathan; Bautista, Leonelo E. Environmental and occupational health research and training needs in Colombia: A Delphi study. *Biomédica: Revista del Instituto Nacional de Salud*. 2015 suplemento 2, Vol. 35, p58-65. 8p. <http://dx.doi.org/10.7705/biomedica.v35i0.2430>

**Patz JA**, Grabow ML, Limaye VS. When it rains, it pours: future climate extremes and health. *Annals of Global Health*, Oct. 2014. <http://dx.doi.org/10.1016/j.aogh.2014.09.007>

**Patz JA** and Hatch MJ. Public Health and Global Climate Disruption. *Public Health Reviews*, 35 (1), 2014. <https://doi.org/10.1007/BF03391697>

**Patz JA**, Frumkin H, Holloway T, Vimont DJ, Haines A. Climate change: challenges and opportunities for Global Health. *JAMA*. 2014;312(15): 1565-1580. [217 citations, 1-3-2019]. <http://dx.doi.org/10.1001/jama.2014.13186>

Hahn\* MB, Gangnon RE, Barcellos C, Asner GP, **Patz JA**. Influence of deforestation, roads, selective logging, and fire on malaria risk in the Amazon Basin of Brazil. *PLOS*, Jan. 2014, 9(1): e85725. <http://dx.doi.org/10.1371/journal.pone.0085725>

Hahn\* MB, Epstein JH, Gurley ES, Islam MS, Luby SP, Daszak P, **Patz JA**. Roosting behavior and habitat selection of *Pteropus giganteus* reveals potential links to Nipah virus epidemiology *J Applied Ecology*, 2014. <http://dx.doi.org/10.1111/1365-2664.12212>

Hahn\* MB, Gurley ES, Epstein JH, Islam MS, **Patz JA**, Daszak P, Luby SP. The role of landscape composition and configuration on *Pteropus giganteus* roosting ecology and Nipah virus dynamics in Bangladesh. *Am J Trop Med* 90(2), 2014, pp. 247–255. <http://dx.doi.org/10.4269/ajtmh.13-0256>

Uejio\* C, Borchardt M, Yale SH, Malecki K, Anderson HA, **Patz JA**. Drinking Water Systems, Hydrology, and Childhood Gastrointestinal Illness in Central and Northern Wisconsin. *Am J Public Health*, 2014. <http://dx.doi.org/10.2105/AJPH.2013.301659>

Hahn\* MB, Olson S, Vittor A, Barcellos C, **Patz JA**, Pan, W. Conservation Efforts and Malaria in the Brazilian Amazon. *Am J Trop Med* 2013. <http://dx.doi.org/10.4269/ajtmh.13-0323>

**Patz JA** and Hahn MB. Climate change and health: A One Health Approach. In *Current Topics in Microbiology and Immunology*. 2012 (Nov). [https://link.springer.com/chapter/10.1007%2F82\\_2012\\_274](https://link.springer.com/chapter/10.1007%2F82_2012_274)

Baumgartner\* J, Zhang Y, Schauer JJ, Ezzati M, **Patz JA**, & Bautista LE. Household Air Pollution and children's Blood Pressure. *Epidemiology*, 2012; 23(4), 641-642. <http://dx.doi.org/10.1097/EDE.0b013e3182593fa9>

Bennett A, Epstein LD, Gilman, RH, Cama V, Bern C, Cabrera L, Lescano AG **Patz JA**, Carcamo C, Sterling CR, Checkley W. Effects of 1997-98 El Niño episode on community rates of diarrhea. *Am J Public Health*, 2012; 102(7): e63-9. <http://dx.doi.org/10.2105/AJPH.2011.300573>

Uejio\* C, Peters T, **Patz JA**. Inland lake indicator bacteria: Long-term impervious surface and weather influences and a predictive Bayesian model. *Lake and Reservoir Management*. 2012; 28(3), 232-244. <https://doi.org/10.1080/07438141.2012.716500>

Grabow\* ML, Spak SN, Holloway TA, Stone B, Mednick AC, **Patz JA**. Air quality and exercise-related health benefits from reduced car travel in the Midwestern United States. *Environmental Health Perspectives* 2011; 120:68-76 [172 citations, 1-3-2019]. <http://dx.doi.org/10.1289/ehp.1103440>

Baumgartner\* J, Schauer JJ, Ezzati M, Lu L, Cheng C, **Patz JA**, Bautista LE. Indoor air pollution and blood pressure in adult women living in rural China. *Environmental Health Perspectives* (2011); 119(10):1390-1395. <http://dx.doi.org/10.1289/ehp.1003371>

Li B, Sain S, Mearns LO, Anderson HA, Kovats RS, Ebi KL, **Patz JA**, The impact of heat waves on morbidity in Milwaukee, Wisconsin. *Climatic Change*, 2011; <http://dx.doi.org/10.1007/s10584-011-0120-y> [54 citations, 1-3-2019]

L Ziska, K Knowlton, C Rogers, D Dalan, N Tierney, MA Elder, W Filley, J Shropshire, LB Ford, C Hedberg, P Fleetwood, KT Hovanky, T Kavanaugh, G Fulford, RF Vrtis, **JA Patz**, J Portnoy, F Coates, L Bielory, D Frenz. Recent warming by latitude associated with increased length of ragweed pollen season in central North America. *Proceedings of the National Academy of Science (PNAS)* 2011. <http://dx.doi.org/10.1073/pnas.1014107108>

Olson\* SH, Gangnon R, Silveira G, **Patz JA**. Deforestation links to malaria in Mancio Lima County, Brazil. *Journal of Emerging Infectious Diseases* Vol. 16 (7) 2010:1108-1115. <http://dx.doi.org/10.3201/eid1607.091785>

Olson\* SH, Gangnon R, Elguero E, Durieux L, Guegan JF, Foley JA, **Patz JA**. Links between climate, malaria, and wetlands in the Amazon Basin. *Journal of Emerging Infectious Diseases*, 2009; 15(4): 659-662. <http://dx.doi.org/10.3201/eid1504.080822>

Vittor\* AY, Pan W, Gilman RH, Tielsch J, Glasss GE, Shields T, Sanchez Lozano, W, Pinedo VV, **Patz JA** (Corresponding author). Linking deforestation to malaria in the Amazon: Characterization of the breeding habitat of the principal malaria vector, Anopheles darlingi. *Am J Trop Med Hyg* 2009; 81(1):5-12. <https://www.ncbi.nlm.nih.gov/pubmed/19556558>

Myers SS and **Patz JA**. Emerging threats to human health from global environmental change. *Annual Reviews in Environmental Resources*. 2009. 34:6.1-6.30. <https://doi.org/10.1146/annurev.enviro.033108.102650>

Checkley\* W, Guzman-Cottrill J, Epstein L, Innocentini N, **Patz J**, Shulman S. Short-term weather variability in Chicago and hospitalizations for Kawasaki disease. *Epidemiology* 2009; 20: 194-201. <http://doi.org/10.1097/EDE.0b013e3181961a9b>

**Patz JA**, Olson SH, Uejio CK, Gibbs HK. Disease emergence from climate and land use change. *Medical Clinics of North America*. 2008; 92: 1473-91. <http://dx.doi.org/10.1016/j.mcna.2008.07.007>

**Patz, JA**, Vavrus S, Uejio C, McLellan S. Climate Change and Waterborne Disease Risk in the Great Lakes Region of the US. *Am J Preventive Medicine* 2008;35(5):451– 458. [187 citations, 1-3-2019]. <http://dx.doi.org/10.1016/j.amepre.2008.08.026>

**Patz JA**, Campbell-Lendrum D, Gibbs H, Woodruff R. Health Impact Assessment of Global Climate Change: Expanding upon Comparative Risk Assessment approaches for Policy Making. *Annual Reviews in Public Health* 2008 (April): 27-39. <http://dx.doi.org/10.1146/annurev.publhealth.29.020907.090750>

**Patz JA**, Gibbs, HK, Foley JA, Rogers JV, Smith KR. Climate Change and Global Health: Quantifying a Growing Ethical Crisis. *EcoHealth* 2007 4(4): 397-405. [241 citations, 1-3-2019]. <https://doi.org/10.1007/s10393-007-0141-1>

Bell ML, Goldberg R, Hogrefe C, Kinney PL, Knowlton K, Lynn B, Rosenthal J, Rosenzweig C, **Patz JA**. Climate change, ambient ozone, and health in 50 US cities. *Climatic Change* (2007). <http://dx.doi.org/10.1007/s10584-006-9166-7>

Foley, J.A., G.P. Asner, M.H. Costa, M.T. Coe, R. DeFries, H.K. Gibbs, E.A. Howard, S. Olson, **J. Patz**, N. Ramankutty and P. Snyder (2007). Amazonian revealed: forest degradation and loss of ecosystem goods and services in the Amazon Basin, *Frontiers in Ecology and Environment* (cover). 2007 5(1): 25-32. [https://doi.org/10.1890/1540-9295\(2007\)5\[25:ARFDAL\]2.0.CO;2](https://doi.org/10.1890/1540-9295(2007)5[25:ARFDAL]2.0.CO;2)

**Patz, JA**. and S. H. Olson . "Climate change and health: global to local influences on disease risk."

*Annals of Tropical Medicine And Parasitology* 2006 **100**(5-6): 535-549.  
<http://dx.doi.org/10.1179/136485906X97426>

**Patz, JA** and S. H. Olson. "Malaria risk and temperature: Influences from global climate change and local land use practices." *Proceedings Of The National Academy Of Sciences Of The United States Of America* PNAS 2006 **103**(15): 5635-5636. <http://dx.doi.org/10.1073/pnas.0601493103>

Pinedo-Cancino V, Sheen P, Tarazona-Santos T, Oswald WE, Jeri C, Vittor AY, **Patz JA**, Gilman RH. Limited Diversity of *Anopheles Darlingi* in the Peruvian Amazon Region of Iquitos. *Am. J. Trop. Med. Hyg.*, 75(2), 2006, pp. 238-245. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1559519/>

**Patz, JA** and S. H. Olson. "Climate change, Oceans and Human Health" *Oceanography* 2006 **19** (2): 52-59. <https://doi.org/10.5670/oceanog.2006.64>

Vittor\*, AY, Gilman RH, Tielsch J, Glass GE, Shields TM, Sanchez-Lozano W, Pinedo VV, **Patz JA** (Corresponding Author). The effects of deforestation on the human-biting rate of *Anopheles darlingi*, the primary vector of falciparum malaria in the Peruvian Amazon. *Am J Trop Med Hyg* (2006);74(1): 3-11. [423 citations, 1-3-2019]. <http://www.ajtmh.org/cgi/pmidlookup?view=long&pmid=16407338>

**Patz JA**, Campbell-Lendrum D, Holloway T, Foley, JA. Impact of regional climate change on human health. *Nature (cover)* (2005);438: 310-317. [2227 Citations 1-3-2019].  
<https://doi.org/10.1038/nature04188>

Parkes M, Bienen L, Breilh J, Hsu L, McDonald M, **Patz J**, Rosenthal J, Sahani M, Sleigh A, Waltner-Toews D, Yassi A. All hands on deck: Transdisciplinary approaches to emerging infectious disease. *Ecohealth* (2005); 2: 258-272. <https://doi.org/10.1007/s10393-005-8387-y>

Tong S, Hu W, Nicholls N, Dale P, MacKenzie JS, **Patz J**, McMichael AJ. Climatic, high tide and vector variables and the transmission of Ross River virus. *Internal Medicine J* 2005;35(11):677-680.  
<https://doi.org/10.1111/j.1445-5994.2005.00935.x>

Watson RT, **Patz JA**, Gubler DJ, Parson EA, Vincent JH. Environmental health implications of global climate change. *J Environmental Monitoring* 2005;7:834-843. <http://doi.org/10.1039/B504683A>

Foley JA, DeFries R, Asner GP, Barford C, Bonan G, Carpenter SR, Chapin FS, Coe MT, Daily GC, Gibbs HK, Helkowski JH, Holloway T, Howard EA, Kucharik CJ, Monfreda C, **Patz JA**, Prentice IC, Ramankutty N, Snyder PK. Global consequences of land use. *Science* 2005;309:570-74.  
<http://doi.org/10.1126/science.1111772>

**Patz JA**, Daszak P, Tabor GM, Aguirre AA, Pearl M, Epstein J, Wolfe ND, Kilpatrick AM, Foutopoulos J, Molyneux D, Bradley DJ, and Members of the Working Group on Land Use Change and Disease Emergence. Unhealthy Landscapes: Policy Recommendations on Land Use Change and Infectious Disease Emergence. *Environ Health Perspect* 2004;101:1092-98. [639 Citations, 1-3-2019].  
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Schwartz J, Samet JM, **Patz JA**. Hospital admissions for heart disease: the effects of temperature and humidity. *Epidemiology* 2004;15 (6):755-61. <http://doi.org/10.1097/01.ede.0000134875.15919.0f>

Haines A and **Patz JA** (Corresponding Author). Health effects of Climate Change. *JAMA* 2004;291(1):99-103. <http://doi.org/10.1001/jama.291.1.99>

Corvalan CF and **Patz JA**. Global warming kills trees, and people. *Bulletin of the World Health Organization* 2004;82(7):481-481.  
<http://apps.who.int/iris/bitstream/handle/10665/269191/PMC2622911.pdf?sequence=1&isAllowed=y>

Louis V, Russek-Cohen E, Choopun N, Rivera ING, Gangle B, Jiang SC, Rubin A, **Patz JA**, Huq A, Colwell RR. Predictability of *Vibrio cholerae* in Chesapeake Bay. *Applied and Environmental Microbiology* 2003;69(5):2773-85. <http://doi.org/10.1128/AEM.69.5.2773-2785.2003>

**Patz JA**, Hulme M, Rosenzweig C, Mitchell TD, Goldberg RA, Githeko AK, Lele S, McMichael AJ, Le Sueur D. Regional warming and malaria resurgence. *Nature* 2002;420:627-8. <https://doi.org/10.1038/420627a>

Glass, GE, Yates TL, Fine FB, Shields TM, Kendall JB, Hope AG, Parmenter CA, Peters CJ, Ksiazek TG, Li CS, **Patz JA**, Mills JN. 2002. Satellite imagery characteristics local animal reservoir populations of Sin Nombre virus in the southwestern United States. *Proc Nat Acad Sci* 2002;99:16817-16822. <https://doi.org/10.1038/420627a>

Curriero FC, Heiner K, Zeger S, Samet J, **Patz JA**. Analysis of heat-mortality in 11 cities of the Eastern United States. *Am J Epidemiol* 2002; 155(1): 80-87. [1,258 Citation, 1-3-2019]. <https://doi.org/10.1093/aje/155.1.80>

**Patz, JA** and R. S. Kovats (2002). Hotspots in climate change and human health. *British Medical Journal* 2002;325(7372):1094-8. <https://doi.org/10.1136/bmj.325.7372.1094>

Wolfe, AH and **Patz JA** (Corresponding Author). Reactive nitrogen and human health: acute and long-term implications. *Ambio* 2002;31:120-5. <https://doi.org/10.1579/0044-7447-31.2.120>

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Jaenisch T and **Patz J** (Corresponding Author). Assessment of associations between climate and infectious diseases. *Global Change & Human Health* 2002;3(1):67-72. <https://doi.org/10.1023/A:1019625332705>

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**Patz JA**, Graczyk TK, Geller N, Vittor AY. Effects of environmental change on emerging parasitic diseases. *Int J Parasitol* 2000;30:1395-1405. [https://doi.org/10.1016/S0020-7519\(00\)00141-7](https://doi.org/10.1016/S0020-7519(00)00141-7)

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Patz JA & Vargo J. Sustainable Cities Work for Climate Change. *Huffington Post, The Blog*. Jun 29, 2015. [https://www.huffingtonpost.com/jonathan-patz/sustainable-cities-work-for-climate-change\\_b\\_7174242.html](https://www.huffingtonpost.com/jonathan-patz/sustainable-cities-work-for-climate-change_b_7174242.html)

Patz JA. There's a Strong Link Between Solving the Global Climate Crisis and Improving Our Health. *Huffington Post, The Blog*, Nov. 30, 2014. [huff.to/YHubPQ](http://huff.to/YHubPQ)

Vargo J and Patz J. On the (Bike) Path to Prosperity: Why Banning Bikes is Bad for Kolkata. *Huffington Post*, January 23, 2014. [https://www.huffingtonpost.com/jason-vargo/kolkata-bike-ban\\_b\\_4157234.html](https://www.huffingtonpost.com/jason-vargo/kolkata-bike-ban_b_4157234.html)

Waller D and Patz J. Move Forward on Climate Change. *Milwaukee Journal Sentinel*, June 27, 2013. <http://archive.jsonline.com/news/opinion/move-forward-on-climate-change-b9942838z1-213420001.html/>

Patz, JA Curbing Fossil Fuels to Power a Public Health Revolution. *Huffington Post*, May 11, 2013. [https://www.huffingtonpost.com/jonathan-patz/curbing-fossils-fuels\\_b\\_3253415.html](https://www.huffingtonpost.com/jonathan-patz/curbing-fossils-fuels_b_3253415.html)

Patz JA. Swapping Tail Pipes for Pedals: Small Changes Could Pay Huge Dividends For Public Health And Economy. *Huffington Post*. Jan. 2, 2012. <http://tinyurl.com/patzcobenefits>

#### Television and Radio interviews (since 2016)

Climate Change and Health. The Morning Show, Wisconsin Public Radio, Jan. 8, 2019. <https://www.wpr.org/node/1386216>

Renewable energy health benefits outweigh financial cost. ABC (Australia), Sept. 25, 2017. <http://www.abc.net.au/radionational/programs/breakfast/renewable-energy-health-benefits-outweigh-financial-cost/8980402>

Doctors warn of health risks in withdrawal from Paris climate accord. June 8, 2017. TV News 3, Madison, WI. <http://www.channel3000.com/health/doctors-warn-of-health-risks-in-withdrawal-from-paris-climate-accord/532215144>

How Climate Change Is Cranking The Heat On Public Health Crises. *WBUR Radio*, Sept. 23, 2016. <http://www.wbur.org/hereandnow/2016/09/23/climate-change-public-health>

Q & A with Rotary International, summer, 2017: <https://www.rotary.org/en/rotarian-conversation-your-health-risk>

Interviewed by many news journalists (including Washington Post, LA Times, NY Times, Associated Press, Reuters, NPR, CNN, ABC, BBC News, Toronto Star, CBS, USA Today, Science News, Knight Ridder, Newsweek, Scientific American, and many more national and international media outlets.

NOTE: To view >400 Archived news pieces referring to Jonathan Patz

Go to:

<https://www.google.com/search?q=Jonathan+Patz&tbs=ar:1&tbn=ews&ei=pK8tWtTVPM6MjwOds4XoBw&start=0&sa=N&biw=1396&bih=1007&dpr=1>

## **PRESENTATIONS**

### ***Named Lectureships and Keynote Addresses***

(Scheduled) Keynote, NSF-NIH-USDA sponsored Research Coordination Network on the “Macroecology of Infectious Disease, Duke University, Durham, Sept. 26, 2019

Frank Nelson Distinguished Lecture, Montana State University, Bozeman, Jan. 29, 2018

Keynote Banquet Speaker, Combat Blindness International, Madison, Oct. 10, 2018.

Keynote, EcoHealth International, Annual Conference, Cali, Colombia, August 16, 2018.

Keynote, Global Health Day, Yale University, New Haven, March 29, 2018.

Keynote, Rotary International, President’s Conference, Vancouver, Feb. 10, 2018.

Plenary Keynote, Confronting the global climate crisis; greatest public health intervention of our times. American Public Health Association, Atlanta, Nov. 6, 2017.

TEDx: Climate Change is Affecting our Health. What’s the Cure? Oshkosh, Nov. 4, 2017.

[https://www.youtube.com/watch?v=r\\_Dpkn\\_wi54](https://www.youtube.com/watch?v=r_Dpkn_wi54)

Dean’s Distinguished Lecture, Case Western Reserve University, Cleveland, Oct. 6, 2017.

Keynote, International Society for Environmental Epidemiology, Sydney, Sept. 25, 2017.

Keynote, American Academy of Pediatrics, Chicago, Sept. 18, 2017.

Plenary Keynote. Zika and Environmental Factors, Rotary International. Atlanta. June 12, 2017.

<https://www.rotary.org/en/rotarian-conversation-your-health-risk>

Opening Keynote: Rockefeller/Lancet Commission, Inaugural conference on Planetary Health, Boston, April 28, 2017.

Opening Keynote: National Academy of Sciences, Roundtables on Environmental Health and on Public Health, Washington, March 13, 2017. link to lecture:

<http://nationalacademies.org/hmd/Activities/PublicHealth/PopulationHealthImprovementRT/2017-MAR-13/Videos/Welcome/2-Patz-Video.aspx>

Banquet dinner Keynote, Physicians for Social Responsibility, Seattle, March 11, 2017.

Dean’s Distinguished “Spotlight” Lecture, Drexel University School of Public Health, Philadelphia, March 8, 2017.

Distinguished Burack Lecturer, University of Vermont, Burlington, January 26, 2017

Keynote, One Health / EcoHealth Biennial Conference, Melbourne, Dec. 6, 2016.

Banquet Keynote, Climate Change and Emerging Infectious Diseases. International Committee of the Red Cross & Universities of Geneva and Lausanne, Geneva, Switzerland, June 6, 2016.

Dean's Lecture, Seoul National University. Korea, May 30, 2016.

Keynote, Citizen's Climate Lobby, Washington, June 20, 2016.

Dean's Lecture, University of Pittsburg, March 15, 2016.

Dean's Lecture, University of Vermont, Burlington, Jan. 25, 2016.

Keynote, Climate Summit of Physicians for Social Responsibility (PSR), Washington, Sept. 20, 2015.

Primary Organizer, Ethiopian Climate Change Summit, Bahir Dar, Ethiopia, June 29-30, 2015.

Keynote & Semester Commencement Speaker, University of Geneva, Switzerland, Geneva, Feb. 2015.

World Leaders Dialogue, IUCN World Parks Congress, Sidney Australia, Nov. 16, 2014.

World Health Summit presentation on health co-benefits of climate policy. Geneva, Oct. 20, 2014

Health Summit Meeting; parallel to UN Summit on Climate Change (co-coordinator/Speaker) NYC, Sept. 22, 2014.

Keynote and Co-chair, multi-nation African Academies of Science Meeting, Addis Ababa, Nov.13, 2013.

Plenary speaker for the Dalai Lama event, Change your mind, chance the world. Madison, May 14, 2013.

Keynote Lecture for the US National Academy of Sciences, Forum on Microbial Threats, Washington, Sept. 25, 2013.

Distinguished Scientist Seminar, Woods Hole Marine Biological Laboratory, Woods Hole, MA, Sept. 13, 2013.

Keynote Lecture for the Inaugural Meeting of the Ethiopian Academy of Sciences, Addis Ababa, June 20, 2013.

Keynote Lecture for "Turning the Tide: Reclaiming Health Health by Restoring the Planet. Missoula, March 9, 2013.

Keynote and Awarded by the NGO Sustain Dane as one of their 2012 Bioneers. Keynote, "Will Climate Change be our Demise... or our Salvation?" Madison, Dec. 12, 2012.

The Alfred Evans Distinguished Lecture, Univ. Michigan, Ann Arbor, July 22, 2009.

Keynote, Society of Epidemiologic Research (SER), Anaheim, CA, June 24, 2009.

Keynote, 16<sup>th</sup> World Congress of Disaster and Emergency Medicine, Victoria, Vancouver, May 12, 2009.

Keynote Address, Pan American Health Organization (PAHO) & the Brazilian Ministry of Health, Belem, Brazil, September 30, 2008.

Keynote Address. DMID International Research in Infectious Diseases Meeting, NIAID (NIH), May 28, 2008.

Deans Lecture, University of California, Los Angeles (UCLA), October 17, 2007

Keynote Address, Climate change and health: Great Risks AND Opportunities. Annual Meeting of the Association of State and Territorial Health Officials (ASTHO), St Louis, Oct. 5, 2007

Keynote Address, Health Effects Institute, Annual Conference, Chicago, April 15, 2007.

Deans Forum, University of Illinois at Chicago School of Public Health, April, 2007.

The Frankel Symposium, UCLA School of Law, March 2, 2007.

Plenary address, "Climate Change and Health," National Council for Science and the Environment Conference, Feb. 1, 2007.

Keynote Address, Expert Workshop on Climate Change, CDC National Center for Environmental Health/ATSDR, Atlanta, GA, Jan. 25, 2007.

Distinguished Lecture, GLOBES Program, Dept Biological Sciences, Notre Dame, October, 2006

Keynote Address, "Global Threats: facts and artifacts," Dutch Society of Tropical Medicine and International Health, June, 2006

Purdue Climate Change Research Center Distinguished Lecture, May, 2006

Dean's Lectureship, University of Michigan, School of Natural Resources and the Environment, April, 2006

Keynote Public Address, Institute for Children's Environmental Health, Seattle, WA, March 2006.

Keynote Address, United Nations Conference on Climate Change. Health Canada special symposium, "Global Health Alert: Climate Change Risks, Strategies and Solutions," Montreal, Dec. 2005.

Yi Fu Tuan Lecture, Dept. Geography, University of Wisconsin-Madison, "Land Use, Climate Change and Health: A Geographic Perspective of Human Disease Emergence," Madison, Oct. 2005.

Keynote Address, Oregon Environmental Council, Healthy Environment Forum, Portland, January, 2004.

Merck Distinguished Lecture in Infectious Diseases, London Health Sciences Center, London, Ontario, November 2003.

Groundwater Foundation keynote presentation, "Waterborne Diseases: Present Challenges, Future Risks." Lincoln, Nebraska, Nov, 2003.

Keynote address, International Society for Environmental Epidemiology, 15<sup>th</sup> Annual Conference, Perth, Sept. 2003.

Keynote address, International Development Research Centre International (Canada), for the Conference on Ecosystem Approaches to Human Health, Montreal, May 2003.

Keynote Address, International Workshop on Climate and Health in Small Island States, WHO Western Pacific Region, Samoa, July, 2000.

College of Sciences' Distinguished Visitor Seminar, Old Dominion University & Eastern Virginia Medical School, Norfolk, February, 1999.

Keynote address for NIEHS, NIAID, DOE, EPRI, NASA, Conference on Climate Change and Disease, Washington, Sept., 1997.

Distinguished Lecture Series, "Climate Change, Health and Integrated Assessment." Global Change Program, Carnegie Mellon, Pittsburgh, Dec., 1996.

Mayor's Special Environmental Lecture & Tulane Ctr Environmental Research Symposium, New Orleans, May, 1996.

### **Invited Briefings**

#### **Congressional Testimony or Briefings to US Administration**

Am. Meteorological Soc. Climate Briefing Series, Climate, Energy and Health Co-benefits, Washington, Feb. 5, 2010.

Senate Hearing on Climate Change & Health; Committee on Education, Labor and Pensions (Senator Ted Kennedy) Washington, April 10, 2008.

<https://www.govinfo.gov/content/pkg/CHRG-110shrg41817/html/CHRG-110shrg41817.htm>

House Hearing on Climate Change; Select Committee on Energy Independence and Global Warming (Representative Ed Markey) Washington, April 9, 2008.

[https://www.markey.senate.gov/GlobalWarming/pubs/archives\\_110\\_id=0036.html#main\\_content](https://www.markey.senate.gov/GlobalWarming/pubs/archives_110_id=0036.html#main_content)

Invited to Senate Hearing on Climate Change & Health, Oct. 23, 2007 (schedule conflict and could not attend, so invited to submit written testimony instead)

Briefing to EPA Administrator Carol Browner, "Climate Change and Public Health Risks, February 19, 1997.

US Senate Roundtable Discussion on Findings of the IPCC Second Assessment Report, Chaired by Senator Lieberman (invited to present health impacts), Washington, June, 1996.

#### **State Legislature Testimony or Briefings**

Wisconsin, Governor's Bicycle Coordinating Council, March 13, 2013

State of New Mexico, Environmental Improvement Board. Testimony on health and climate change Regulation, 20.2.350 NMAC – 8 *Greenhouse Gas Cap and Trade*. Santa Fe, Sept. 21, 2010.

Wisconsin State Legislature, Public Service Commission & Industrial Energy Incentives. Presented health co-benefits research results at public hearing, Jan. 27, 2010.

#### **National Academy of Sciences (NAS) Presentations**

NAS Workshop, "Expanding Biofuel Production and the Transition to Advanced Biofuels: Lessons from the Upper Midwest for Sustainability," invited panelist, St. Paul, MN, April 8, 2010.

Invited Presenter to the BASC study on Stabilization Targets for Atmospheric Greenhouse Gas Concentrations, Sept. 16, 2009

Invited Discussant, Institute of Medicine (IOM) report, Microbial Threats to Health: Factors in Emergence, April 2002.

Invited Presenter (twice) to the National Research Committee (NRC) Panel on Climate, Ecology

and Infectious Diseases, March 23, 1999, and again on April 10, 2000.

**Special Invited Seminars**

WHO Health in All Policies -Urban Air Pollution Workshop, Washington, June 18, 2018

Milwaukee Rotary, March 27, 2018.

Climate and health. CSU School of Global Environmental Sustainability, Ft. Collins, Oct. 2017.

Occupational Health and Climate Policies for Health (2 lectures), Bellin/Theda Care, Egg Harbor, WI, Sept. 30, 2017.

Climate change update. Rotary Club of Sydney Cove, Sydney, Sept. 23, 2017.

Climate change health epidemiology, University of Sydney, School of Public Health, Sept 22, 2017.

Climate Change Policy and Health Opportunities. Rotary Club of Madison. July 12, 2017.

UN COP Preplanning meeting, seminar. Rabat, Morocco. Oct. 10, 2016.

Rotary International. Climate change health. Seoul, Korea, May, 31, 2016

Live from Paris Climate Agreement Talks. Paris, Dec. 10, 2015 via online audience in Madison.  
<http://ghi.wisc.edu/live-from-paris-connecting-wisconsin-and-the-u-n-climate-talks-2/>

Moderator for Health Care without Harm, UN WHO summit, side meeting to the Climate Paris Agreement. Paris, Dec. 4, 2015.

Science of Tap, UW-Madison, Minocqua, WI, Oct. 7, 2015

Gondar University Lecture on climate change. June 12, 2015, Gondar, Ethiopia.

UW Livable Cities Conference, Madison (presented remotely from Geneva), May 12, 2015

Climate & health. Horn of African, Regional Environmental Ctr., Addis Ababa, April 8, 2015.

Urban health. Frieberg University, Freiburg, Germany, Feb. Feb. 12, 2015.

International health and climate. Heidelberg University, Heidelberg, Germany, Feb. 11, 2015.

Urban Health, International Council of Scientific Unions (ICSU), Xiamen, China, Nov. 9, 2014.

Global Forum on Health Promotion, University of Geneva, Nov. 12, 2014.

Climate change health. Lund University, Lund, Sweden Sept. 25, 2014.

Climate and Infectious Diseases, European CDC, Stockholm, May 28, 2014

Grand Rounds, St. Patrick Hospital, Missoula, March 9, 2013.

Selected by NIH to present our research findings to a combined NIH/CDC conference on "Climate Change and Public Health: Merging Research and Practice," Washington, Jan. 31, 2013.

Australian National University, Tribute to Professor Tony McMichael, Nov. 1, 2012.

Shanghai Centers for Disease Control and Prevention, Oct. 24, 2012.

Fudan University, School of Public Health, Shanghai, Oct. 22, 2012.

University of the Chinese Academy of Science, College of Resources & Environment, Beijing, Oct. 21, 2012.

Addis Ababa University, special lecture in Health Sciences, Addis Ababa, Oct. 12, 2012.

Harvard Department of Environmental Health's Colloquium, "Health co-benefits of low-carbon transportation, Boston, April 5, 2012.

New research on climate change and health. Cleveland Museum of Natural History, Nov. 16, 2011.

Climate Change Health Ethics and Interdependence. Presentation to His Holiness the Dalai Lama, Mind and Life Conference Series, Dharamsala, India, Oct. 17-21, 2011.

Climate change ethics and health. 2 presentations: 1) for Prime Minister & public; 2) Teachers College of Bhutan, Paro, Bhutan, Oct. 10 and 13, 2011.

Washington Global Health Alliance (WGHA) Discovery Series Lecture. "Health Risks and Benefits of Climate Change. Seattle, Jan. 4, 2011.

US National Assessment of Climate Change, Midwest Regional Assessment Workshop. "Update on health impacts for the upper Midwest," Chicago, Feb. 23, 2010.

Institute on the Environment, Univ. Minnesota, "Climate Change & Health: Foreboding Clouds and Silver Linings," April 9, 2010.

Wisconsin Academy of Sciences, Arts, and Letters. Heat Waves and High Water: Climate change, the Wisconsin landscape and public health in 2050, Madison, Nov. 15, 2009.

Baltimore Friends School, "Climate Change and Health", Baltimore, Sept. 20, 2009.

Cornell University Climate Change Forum, "Climate Change and Health: Dark Shadows and Silver Linings. Ithaca, NY, April 30, 2009.

President's Circle of the National Academies of Sciences, Plenary speaker in session on "Sustainable Communities", Mountain Vies, CA, November 6, 2008.

Keynote Address, University of Hawaii, NSF IGERT meeting, Honolulu, Sept. 14, 2008.

NIEHS (NIH) Research Seminar Series, Research Triangle Park, April 18, 2008.

Keynote, Pan American Health Organization (PAHO), Climate Change and Health in the Amazon, Brasilia, April 9, 2008 (via teleconference link from PAHO HQ in Washington).

Research Seminar Series, Department of Epidemiology and Biostatistics, Case Western Reserve School of Medicine, Cleveland, April 1, 2008.

Climate Change and Health: Risks and Opportunities. UC Berkeley, (public lecture), March 6, 2008. Research Methods- Global Environmental Change, Dept. Environ. Health, March 7, 2008.

Café Scientifique, Montana State University, Bozeman, MT, November 20, 2007

Plenary Presentation to the Presidential Management Fellows, Washington, July 26-27, 2007.

The Heat is Rising: What you need to know about climate change and public health. Johns Hopkins Bloomberg School of Public Health, April 6, 2007.

"Emerging Disease Threats from Global Climate & Ecological change"  
Institute for Research & Development (IRD), Agro M, Montpellier–UW Madison Exchange  
April 2, 2007, Montpellier, France.

Sauk County Institute of Leadership, Public Safety and Emergency Preparedness. Baraboo, WI,  
March 8, 2007.

"Population Health Impacts of Damaged Environments," Univ. of Wisconsin School of Business,  
Special Symposium on Environmental Risk Management, Madison, September 26, 2006.

Wingspread Meeting on Global Warming (invited participant). Racine, WI, June 6, 2006.

Global Ecological Change and Disease Emergence, UNESCO meeting on  
Sustainable Development and Biodiversity (meeting for French President Jacques Chirac), Paris,  
January 2005.

Gordon Research Conference, Lewiston, Maine (Invited), Scheduled July 2004.

Columbia University's 250th Anniversary, Climate Symposium, Earth's Future: Taming the  
Climate, New York, April 2004.

The 3<sup>rd</sup> Isadore Bernstein Symposium, University of Michigan, Ann Arbor, March 2004.

Climate change, El Niño and Health. (On special invitation by the Dean of the School of Public  
Health) University of Sydney, Oct. 2003.

GIS and Remote Sensing Methods for Studying Land use change and Disease. Australian  
National University, Canberra, Oct. 2003.

Case Studies: Climate, Land use, Biodiversity and Health. National Symposium on Climate  
Change and Human Health, Australian National University, Sept., 2003, Canberra.

Ecology of infectious Diseases, Symposium on Environmental Change and Human Health 2003,  
University of North Carolina, Chapel Hill, April, 2003.

Brainstorming Seminar with Al Gore, Harvard University, John F. Kennedy School of  
Government, Cambridge, MA, Dec. 6, 2002.

Environment and Health Alliance, Penn State University, Hershey, March 2002.

Climate and Infectious Diseases in Latin America. International Research Institute on Climate  
Prediction (IRI), Columbia University, New York, January 2002.

Invited Presenter, Lessons Learned Workshop of the US National Assessment on Climate  
Change, EPA, Washington, November 2001.

Plenary presentation, 1st International Workshop on Ecosystem Health. University of Western  
Ontario, London, Ontario, June, 2001.



Climate Neutral Project Speaker Series, Oberlin College Environmental Studies Program, Oberlin, OH, May, 2001.

Climate Change and Health, Weizman Institute Board Members Meeting, Washington, April 2001.

Health Research of Climate Variability –Review of past and ongoing studies for the Scientific Advisory Board of the Office of Global Programs, National Oceanic and Atmospheric Administration (NOAA), Sept, 2000.

Climate, Ecological Change and Public Health: 2-part lecture series for the American Museum of Natural History, New York, Feb, 2000.

Hantavirus Risk and Climate/Ecological Variability. North Carolina Department of Public Health, Greensboro, NC, Feb, 2000.

Climate Change, El Niño and Human Health. Seminar Series of the Environmental and Occupational Health Institute, Rutgers/Robert Wood Johnson Medical School, Piscataway, Jan. 2000.

Symposium on the Science of Global Climate Change. University of Iowa, Iowa City, March, 1999.

National Research Council, Board on Atmospheric Sciences and Climate. Round table presentation for strategic planning of the National Assessment on Climate Change, Washington, June, 1998.

Climate & Health: the North American Perspective. European Centre for Environment and Health, WHO, Rome, May, 1998.

“Climate Change and Infectious Disease.” Center of Global Hydrology and Geography, University of Alabama, Huntsville, Nov. 1997.

Climate Change and Public Health: Overview and Research in Progress. Invitation by Dr. Richard Jackson, Director, National Center for Environmental Health, CDC, Atlanta, April, 1997.

Global Change & the Americas, Earth Sci. Directorate, Goddard Space Flight Ctr., June, 1996.

London School of Hygiene and Tropical Medicine, Dept Epidemiology Seminar, May, 1996.

Emerging Diseases & Climate Change, Occupational Med. Dept Seminar, U Maryland, Feb, 1996.

Global Environmental Change and Public Health. American Society of Preventive Oncology, Washington, DC, March, 1996.

Climate Change and Vector-borne Diseases, Vector Biology Forum, MMI, Oct., 1995.

***Scientific Meetings (presentations, sessions presided, or conferences co-chaired)***

Planetary Health, 2<sup>nd</sup> Annual Conference, Edinburgh, May 30, 2018.

Consortium of Universities for Global Health. Organizer for two satellite session: Climate Change and Global Health; Urban Health, March 15, 2018, NYC.

Climate change and international health. American Public Health Association, Atlanta, Nov. 8, 2017.

Occupational Health and Climate Change. International Commission on Occupational Health – Epidemiology Conference EPICOH. Edinburgh. Aug. 29, 2017.

Climate and Infectious Diseases. IECID 2017 Impact on Environmental Change on Infectious Diseases. Trieste, Italy, May 18, 2017.

Consortium of Universities for Global Health. Speaker in Urban Health satellite session, March 2017, Washington.

Climate and One Health. One Health & EcoHealth Conference, Melbourne, Dec. 2, 2016.

Climate and Cities. Am. Public Health Association (APHA), Denver, Nov. 2, 2016

Earth Day. Nelson Institute for Environmental Studies. Madison April 25, 2016

Consortium of Universities for Global Health. Perfect Storm? Zika outbreak. San Francisco, April 11, 2016.

Health in the Built Environment. Urban Health Inaugural Meeting, International Council for Scientific Unions (ICSU) & UN University & the Inter-Academy Medical Panel (IAMP) 2014.

World Leaders Dialogue, International Union for the Conservation of Nature (IUCN) World Parks Congress, Sidney Australia, Nov. 16, 2014.

Consortium of Universities for Global Health, session on Climate Change and Health Co-benefits, Washington, March 15, 2013.

CBD-PAHO-WHO Regional Workshop on the Inter-Linkages between Human Health and Biodiversity in the Americas, Manaus, Brazil, Sept. 4-6, 2012 (presented opening keynote via Skype).

Association of Public Health Laboratories, Climate change and public health. Seattle, May 20, 2012.

Beyond GDP, Special conference of the United Nations (session presider), New York, April 2, 2012.

Health co-benefits from low-carbon transportation. Planet Under Pressure Conference, London, Jan. 28, 2012.

Environmental Security and Public Health breakout workshop. National Science and Environmental Policy Conference, Washington, DC, Jan. 19, 2012.

World University Network, Scenario Planning Workshop, San Juan Is., Sept. 8-9, 2011.

Presentation to the Joint Meeting of the International Joint Commission's Council of Great Lakes Research Managers and the Health Professionals Task Force, Milwaukee, July 25, 2011.

Presentation at National Center for Atmospheric Research (NCAR), Workshop on Climate and Health, Boulder, CO, July 11, 2011.

UNESCO International Conference on Desertification. "Climate change, water management and public health: considering the dangerous trade-offs," Beer Sheva, Israel, Nov. 9, 2010.

Macabi Health Services. "Climate Change and Health," Tel Aviv, Israel, Nov. 7, 2010.

International Association for Ecology and Health, Biannual Conference. "Transportation Health Co-benefits of Greenhouse Gas Mitigation," London, August 17, 2010.

Climate Change Mitigation & Global Health Workshop, London School of Hygiene and Tropical Medicine. "Research update of transportation air pollution simulation modeling for the US Midwest," London (via video link), March 17, 2010.

USGS, Health of Wisconsin Water Resources, Plenary Presentation, Madison, March 4, 2010.

USGCRP, Midwest Regional Assessment Workshop. "Climate Change & Health in the Midwest Region." Chicago, Feb. 23, 2010

American Public Health Association (APHA) Annual Conference. "Climate Change Health Opportunities." Nov. 9, 2009.

CDC, National Center for Environmental Health Conference. "Climate change & Water & Air Quality: Future scenarios of risks and co-benefits, Great Lakes Region," Oct. 27, 2009.

Pan American Health Organization (PAHO), Workshop on Climate Change, Disasters and Health. Havana, Cuba, Oct. 15, 2009.

1<sup>st</sup> Congress on Health and Disasters in Cuba. Plenary Presentation, Havana, Oct. 14, 2009.

International Society of Environmental Epidemiology (ISEE), "Health Co-benefits of Reduced Car Travel in the Midwest US," Dublin, Ireland, August 26, 2009.

US EPA. Climate Change and Waterborne Disease Risk in the Great Lakes Region of the U.S, Chicago, July 14, 2009.

American Museum of Natural History, Exploring the Dynamic Relationship Between Health and the Environment. April 3, 2009.

International Association for Ecology and Health, "Health Co-Benefits of Energy Policy Options", Merida, Mexico, Dec. 2, 2008.

American Public Health Association. Annual Conference. 1) "Health Impact Assessment Roundtable;" and 2) "Research strategies for climate change and human health," San Diego, CA, Oct. 27-29, 2008.

Climate Change and Health: A Looming Ethical Crisis. Global Environmental Integrity Group, Berlin, July 18, 2008

Plenary Address: Climate Change: Concerns and Opportunities for State Epidemiologists. Annual Meeting of the Council of State and Territorial Epidemiologists, Denver, June 9, 2008.

Plenary Speaker, UW Health Integrative Medicine Conference, Madison, April 14, 2008.

Land use and biodiversity change: Implications for disease resurgence. International Association for Landscape Ecology, Madison, April 7, 2008.

Keynote Presentation for the Asia-Pacific EcoHealth Conference, Melbourne, Nov. 30, 2007.

APHA Plenary Keynote, Climate Change: A Challenge to Public Health, Washington Nov. 6, 2007

Wisconsin Environmental Health Association, sponsor for the National Environmental Health Association Region 4 conference, "Climate Change and Health: Risks and Opportunities," La Crosse, WI, Sept. 26, 2007.

Plenary, International Society for Environmental Epidemiology. "Climate Change Health: Synergies between Climate and Land use Change", Mexico City, Sept. 7, 2007

WHO / PAHO Regional Meeting on Climate Change and Health, August 6-7, San Jose, Costa Rica.

National Association of City and County Health Officers (NACCHO) Annual Conference, "Climate Change Health" Columbus, OH July 12, 2007.

NAS, Institute of Medicine, Forum on Microbial Threats. Vector-borne Diseases--Understanding the Environmental, Human Health, and Ecological Connections." Fort Collins, CO, June 20, 2007

Consultative Group on Biological Diversity (CGBD) 2007 Annual Meeting. Invited discussion leader (for this closed meeting of environmental private foundations) Wintergreen, VA, June 14, 2007.

National Summit on Coping with Climate Change. University of Michigan, Anne Arbor, MI, May 8, 2007.

Physicians for Social Responsibility (PSR), Public Address – Madison Historical Society Lecture Hall, Madison, April, 2007.

European Centre for Disease Prevention and Control (ECDC). Plenary, The global picture: Preparing for change. Stockholm, Sweden, March 30, 2007.

Institute for the Future, "Animal-Public Health Workshop," Palo Alto, CA, February 28, 2007.

Climate Change Health Implications. International Conference of the CDC National Center for Environmental Health/ATSDR, Atlanta, GA. Dec. 5, 2006.

Land use change and disease. DIVERSITAS, ESSP, Beijing, China, November 10, 2006

"Inequities in health impacts of global climate change." APHA Annual Conference, Boston, November 6, 2006.

Biodiversity, Ecosystem Processes and Human Health (invited speaker to this session). Ecological Society of America, Memphis (scheduled Aug 2006).

Tropical Deforestation, Vector Ecology and the Re-emergence of Malaria. American Society of Tropical Medicine and Hygiene, Washington, Dec. 2005).

A tale of two microbes: Urbanization, Deforestation and the rise of Dengue and Malaria. Society of Conservation Biology, scheduled in New York August, 2004.

Land use and human welfare. American Geophysical Union (AGU) Chapman Conference on Ecosystem Interactions with Land Use Change, Santa Fe, June, 2003.

Climate Change Health Impacts. Fifth State and Local Climate Change Partner's Conference, US EPA, Annapolis, November, 2002.

Health Impacts of Climate Change, Health Effects Institute (HEI) & Pew Trust Conference on Climate Change Mitigation, MIT, Boston, August 2002.

Lyme Disease under projected climate change for the US and Canada, Energy Modeling Forum, Snowmass, July 2002.

Colloquium Co-Chair and Project Leader. Unhealthy Landscapes: How Land use change affects health. Annual Conference of the Int. Soc. Ecosystem Health, Washington, June, 2002.

Climate change and health, State of the Environment Report, US EPA, Washington, May 10, 2002.

Findings from the US National Assessment, APHA, Atlanta, October 2001.

Nitrogen and Human Health, Annual Conference on Nitrogen, Potomac MD, October, 2001.

Waterborne disease associated with heavy precipitation events, International Society for Environmental Epidemiology, Garmisch-Parkenkirken, Germany, September 2001

Distinguishing between Epidemiology and Junk Science. Society of Epidemiology Research, Annual Conference, Toronto, June 2001.

Emerging Diseases in the Urban Environment, New York Academy of Medicine, NYC, Dec, 2000.

National Academy of Sciences, Forum on Science, Policy and the Environment (Discussant for session, "Global Environmental Change"), Dec., 2000.

Findings of the Health Sector of the US National Assessment on Climate Variability and Change, APHA Annual Conference, Boston, Nov, 2000.

Respiratory Diseases and Climate Change. NIEHS International Conference on Occupational and Environmental Respiratory Diseases. Lucknow, India, Nov., 2000.

Recommendations of the Health Sector of the US National Assessment on Climate Variability and Change. Geological Society of America, Reno, Nov, 2000.

Climate Change and Parasitic Infections, VIII European Multicolloquium of Parasitology, Poznan, Poland, Sept, 2000.

Defying Nature's End, Center for Applied Biodiversity Science, Conservation International, Pasedena, August, 2000.

Deforestation and malaria: a comparison of malaria risk in deforested and forested sites in the Peruvian Amazon. Conservation Medicine Symposium, Conservation Biology Annual Conference, Missoula, June, 2000.

Human Health Impacts of Climate Variability and Change in the US: Health Responses to Climate Variability and Change. AAAS, Washington DC, Feb. 2000.

Health Effects of Global Environmental Change. Human Health and the Environment in the Twenty-first Century. Western North Carolina Tomorrow, Asheville, Jan. 2000.

Association of extreme rainfall and water-borne disease outbreaks. Energy Modeling Forum, Snowmass, July, 1999.

Session co-chair, Climate Change and Health, International Congress on Ecosystem Health, Davis, August, 1999.

Mesoscale climate modeling of air pollution in Baltimore under climate change scenarios. Society of Epidemiological Research, Baltimore, June, 1999.

Integrated research approaches to climate variability & health studies. US Geological Survey, Reston, March 1999.

Integrated climate/health studies: Research in progress. American Meteorological Society, Special Session on Climate and Health, Dallas, Jan. 1999.

Co-presiding session with Dick Jackson (CDC), "Agricultural Waste and Water Quality," APHA, Washington, Nov, 1998.

Presiding session, "Climate Change, El Niño and Health: New Research Findings and Report from the Kyoto Protocol," APHA, Washington, Nov, 1998.

Co- presiding session, "The USGCRP National Assessment of Climate Variability and Change: Health Sectoral Assessment," APHA, Washington, Nov, 1998.

Satellite Remote Sensing Applications to Public Health. NASA Workshop on Interdecadal Climate Variability, Williamsburg, Sept.1998.

New findings from research on public health effects of global climate change. Ecological Society of America, Baltimore, August, 1998.

Climate simulation modeling applied to public health. Energy Modeling Forum, Aspen, Aug., 1998.

Climate Variability / Health Research Update, Community Meeting on Integrated Assessment, Association of American Geographers, Washington, July, 1998.

Co-President with Rita Colwell (NSF), "Climate, Pathogens & Health." American Society for Microbiology: 98th General Meeting, Atlanta, May, 1998.

WHO/UNEP/MRC sponsored International Workshop on Climate Change Monitoring. "Monitoring for Vector-borne Diseases" (presentation and working paper), London, Dec., 1997

Climate Change, Health and Environmental Policy: case study of air pollution in China. APHA, Indianapolis, Nov., 1997.

President for session on Global Climate Change and Vector-borne diseases. Second International Congress on Vector Ecology, Orlando, Oct., 1997.

White House Conference on Climate Change (invited participant). Luncheon meeting with Secretary of Health, Donna Shalala, Oct., 1997.

Impacts of Climate Change. Science Summit on Climate Change, Union of Concerned Scientists, Washington, September, 1997.

Chairman, human health working group , US EPA Regional Workshop on Climate Change Impacts in the Mid-Atlantic Region, Penn. State University, September, 1997.

US-Mexico-Canada Research Development Workshop on Emerging and Re-emerging Diseases in North America (under venue of the NAFTA), NIH (Bethesda), September, 1997.

WHO/FAO/ IGBP (GCTE)/ IRI/ ICIZE: International Workshop on Global Change Impact Assessment Approaches for Vectors and Vector-borne Diseases, Nairobi, September, 1997.

Public health repercussions of climate and ecological change. Special Symposium: Technological Humans and Global Change. Ecological Society of America, Albuquerque, August, 1997.

Co-chair, special colloquium on Global Climate Change and Infectious Disease, American Academy of Microbiology, Montego Bay, June, 1997.

Co-chair, Conference on Climate Change: Implications for Occupational and Environmental Health. Society of Occupational and Environmental Health, NIH (Bethesda), March, 1997.

Global Climate Change and Pediatric Public Health (poster session). Children's Environmental Health Network, Conference on Children's Environmental Health, Washington, February, 1997.

Climate Change and Public Health: Implications for Latin America. 10th Anniversary Conference, Angeles Hospital, Mexico City, Dec., 1996.

Climate Change and Pediatric Diseases, Special Session on Emerging Environmental Health Issues in Children, APHA, New York, Nov., 1996.

Presider and organizer, Climate Change and Emerging Infectious Diseases. APHA, Nov., 1996.

Climate Change Impacts on Malaria and Dengue Fever: Analysis from Empiric Data and Mathematic Modeling. XIV International Scientific Meeting of the International Epidemiological Association, Nagoya, Japan, Aug., 1996.

Climate Change and the Spread of Dengue Fever: analysis from model simulations. Annual Conf Society of Ecosystem Health and Medicine, Copenhagen, Aug., 1996.

Climate Change, Human Health and Sustainability.  
Air and Waste Management Annual Conference, Nashville, June, 1996.

Climate Change & Sustainable Development, Natl Council Internat Health, Wash., DC, June 1996.

Climate Change and the spread of dengue fever and malaria.  
7th International Conference on Global Warming, Vienna, Austria, April, 1996.

Global climate change: implications for sustainable health and development.  
Center for Environmental Information conference on, Sustainable Development and Global Climate Change. Washington, DC, Dec., 1995.

Global climate change: an inter-generational public health threat. APHA Special Session on Environment and Health: revisiting the linkages. San Diego, CA, Nov., 1995.

Co-chair of session, Implications for disease prevention, Conference on Human Health and Global Climate Change. National Academy of Science and the National Science and Technology Council, Washington, DC, Sept. 1995.

Health, Climate Change and Integrated Assessment.  
Energy Modelling Forum, Snowmass, CO, August, 1995, 1996, 1997.

Health adaptations to climate change: a need for farsighted integrated approaches. The International Conference on Climate Change Adaptation Assessments, US Country Studies Program, St. Petersburg, Russia, May, 1995.

Health/Ecosystem Linkages in an Integrated Assessment of Climate Change Impacts.

Southeast Regional Workshop: Vulnerable Resources and Predictive Capabilities,  
US EPA, Charleston, SC, April, 1995.

African Regional Workshop on Climate Change and Health Vulnerabilites.  
US Country Studies Program, Harare, Zimbabwe, March, 1995.

Climate Change and Infectious Diseases: Applications for Satellite Remote Sensing.  
American Society of Tropical Medicine and Hygiene, Cincinnati, OH, Nov., 1994.

Presider and organizer for plenary session, Global Environmental Change and Public Health:  
New Challenges and New Approaches. APHA annual meeting, Washington, DC, Oct. 1994.

International Research on Health and Climate Change: findings from a new WHO Database.  
5th International Conference on Global Warming, San Francisco, April, 1994.

Environmental Health Education and Lead Poisoning.  
APHA annual meeting, San Francisco, CA, Oct., 1993.

Presider and organizer, Health Effects of Global Climate Change.  
APHA annual meeting, San Francisco, CA, Oct., 1993.

Environmental teratogens, Family Medicine Grand Rounds.  
Medical University of South Carolina, Charleston, SC, Feb., 1990.

Health effects of low-level ionizing radiation, Family Medicine Grand Rounds.  
Medical University of South Carolina, Charleston, SC, April, 1990.

Biomarkers in cancer-strain mice.  
Surgical Forum Conference, Atlanta, GA, Oct., 1983.

Exposure pathways of DDT in peregrine falcons, Dept. of Biology Special Seminar.  
Colorado College, Colorado Springs, CO, 1980.

### **Keywords**

Air Pollution  
Built Environment  
Deforestation  
Dengue Fever  
Global Climate Change  
Greenhouse Warming  
Family Medicine  
Health Impact Assessment  
Heat Mortality  
Land use change  
Malaria  
Occupational and Environmental Medicine  
Preventive Medicine  
Remote sensing  
Simulation Modeling  
Urban Sprawl  
Vector-borne diseases  
Water-borne diseases