Elizabeth Hodges Snyder

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I am a soil and water scientist and environmental health practitioner originally trained in human and ecological risk assessment. My interdisciplinary background includes experience in both natural science laboratory and social science research. In the years following attainment of my graduate degrees, my research program and teaching agenda have evolved to address the fields of health impact assessment (HIA), water and sanitation, and food security.

EDUCATION

Doctorate of Philosophy in Soil and Water Science, Dept. of Soil and Water Science, Aug. 2009
School of Agriculture and Life Sciences, University of Florida
Alumni Fellowship Recipient – four year full fellowship
William K. Robertson Fellowship, 2005
Outstanding Dissertation Award, Soil and Water Science Department, 2009
Title: Fate, Transport, and Risk of Land-Applied Biosolids-Borne Triclocarban

Master of Public Health, Global Environmental Health (GEH) Program, Summer 2004
Rollins School of Public Health (RSPH), Emory University
Global Field Experience Grant Recipient, 2003
Title: Pesticide Hazard Identification in San Jose Mapuey, Venezuela

South Texas Environmental Education and Research Program, May 2003
University of Texas Health Science Center at San Antonio
Environmental medicine/environmental public health education: 160 hours

Bachelor of Health Sciences, Rehabilitation Counseling, Aug. 2002
College of Public Health and Health Professions, University of Florida
Florida Bright Futures Scholarship – four year full scholarship

TRAVEL EXPERIENCE

Valencia, Venezuela. Conducted Masters thesis research in Valencia and San Jose Mapuey. Collaborated with University of Carabobo. 2004.
Taipei, Taiwan. Lived in Taipei and attended Taipei American School (TAS). 1991-1992.
Islamabad, Pakistan. Lived in Islamabad and attended the International School of Islamabad (ISI). 1988-1991.
Other International Travel. Bermuda, Canada, China, England, Germany, Hong Kong, Jamaica, Mexico, Philippines, Scotland, Singapore, and Thailand.
Alaska Travel. Akiachak, Anchorage, Bethel, Fairbanks, Homer, Hope, Kasilof, Nome, Seward, and Talkeetna.

PROFESSIONAL EXPERIENCE

Assistant Professor of Public Health, Department of Health Sciences, University of Alaska Anchorage. August 2009-present.

- Environmental and Occupational Health (HS A610), Fall 2009-present
- Biostatistics (HS A625), Spring 2012-present
- Program Evaluation (HS A628), Spring 2011
- Research Tools and Methods (HS A629), Fall 2009-present
- Soil, Water, and Public Health (HS A690), Summer 2010, 2012, 2014
- Food Security and Nutrition (HS A690), Summer 2014
- Founder of the Environmental Health and Sciences Teaching and Research (EHSTR) Lab
- Supervisor of independent studies on public health theory, health economics, and food security

Assistant Professor Courtesy Appointment, Soil and Water Science Department, University of Florida, Gainesville, Florida. Spring 2012-present.

Consultant, Peer-review of a natural resource development health impact assessment. Summer 2014.

Co-Instructor, Fate and Transport of Metals and Organic Contaminants, Alaska Community Action on Toxics, Community-Based Environmental Health Research: A Field Sampling Institute, Nome, Alaska. June 18-22, 2012.

Guest Instructor, University of Alaska Fairbanks Northwest Campus, Community-Based Environmental Health Research: A Field Sampling Institute. July 2010.

Guest Lecturer (distance education), Soil and Water Science Department, University of Florida. Soils, Water, and Public Health. Spring 2010, Spring 2011.

Co-Instructor, Survey of Water, Soil, and Public Health. Joint graduate/undergraduate course offering in the Soil and Water Science Department and the Public Health Program, University of Florida. Spring 2007 and 2008.

Radiation Safety Officer, Soil Chemistry Lab, Soil and Water Science Department, University of Florida. Maintain inventory records, conduct swipe tests, and train new radiochemical users. Fall 2007-Spring 2009.

Intern Researcher, The Procter & Gamble Company, Cincinnati, Ohio. Conduct laboratory-based research on biosolids-borne Triclocarban. Summer 2006.

Teaching Assistant, Soils for Environmental Professionals Lab, Soil and Water Science Department, University of Florida. Fall 2005.

Teaching Assistant, Soils for Environmental Professionals, Soil and Water Science Department, University of Florida. Spring 2005.

Withlacoochee River Basin Project Coordinator, Florida Defenders of the Environment, Gainesville, Florida. Research grant opportunities, design water quality regulations educational material, and attend community meetings. Summer 2005.

Research Assistant, GEH Department, RSPH, Emory University. Coordinate meetings and interactions between RSPH, the National Center for Environmental Health (NCEH), and Centers for Disease Control and Prevention (CDC). Contact and assist invited speakers for GEH Department. Fall 2003.

University of Florida Gymnast, University of Florida Athletics. Team competitor. 1998-1999.

ADVISING AND SERVICE

Academic advisor, UAA Master of Public Health (MPH) Program. ~25 MPH students. 2009-present.

Chair, MPH Thesis Committee. ~20 MPH students on topics including food security, contaminant fate and transport, health impact assessment, sanitation, and health services. 2009-present.

Chair, MPH Program Assessment Committee. Fall 2010- present.

Steering Committee and founding member, Society of Practitioners of Health Impact Assessment (SOPHIA). Spring 2010-Summer 2014.

Co-Chair and Board Member, Alaska Food Policy Council (AFPC). Summer 2014-present.

Board Member, Alaska Food Policy Council (AFPC). Fall 2013-Summer 2014.

Member, North Slope Science Initiative (NSSI), Science Technical Advisory Panel (STAP). Spring 2014-present.

Co-Chair, Alaska Food Policy Council (AFPC) research working group. Summer 2012-present.

Co-Chair, Finance committee, Society of Practitioners of Health Impact Assessment (SOPHIA). Spring 2013-present.

Board Member, Sustainability Action Board (SAB), UAA. Summer 2012-present.

Member, Multiple MPH Program Committees (Workforce Development, Marketing, and Seminar). Fall 2009-present.

Member, Stakeholder workgroup, Society of Practitioners of Health Impact Assessment (SOPHIA). Spring 2013-present.

Member, Integrative Research Advisory Council (IRAC), College of Health, UAA. Fall 2013-present.

Member, University Chemical Safety Committee, Spring 2011-present.

Member, Alaska Health Impact Assessment Working Group (advise the state program). Fall 2009-Spring 2011.

Co-Coordinator, "Impacts of Metals and Metallic Mining on Aquatic Ecosystems and Human Health" 3-day seminar hosted by the Conservation Planning Assistance Branch of the US Fish and Wildlife Service, The Nature Conservancy, and the UAA Department of Health Sciences, Nov. 30, Dec. 1, and Dec. 2, 2010 (~80 residential and distance participants).

Volunteer Coordinator, Casting for Recovery, Anchorage, AK. Recruit, inform, and coordinate volunteers. 2009-2011.

Mentor, Alaska Youth for Environmental Action (AYEA), Palmer, AK. Moderate student meetings, assist in the development of student projects, and provide environmental education. 2009-2011.
Mentor, Alaska Native Science & Engineering Program (ANSEP). Summer 2010.

Mentor, National Institutes of Health (NIH) National Institute for Diabetes, Digestive, & Kidney Diseases (NIDDK). Summer 2010.

Speaker Series Chair, Wetlands Club, University of Florida. 2006.

REHAC Co-President, Rollins Environmental Health and Action Committee, RSPH, Emory University. 2003-2004.

FUNDED PROJECTS

Clinical Translational Research Infrastructure Network (CTR-IN). More water in the home for basic hygiene. $75,000. Summer 2014-Summer 2015. Co-PI: Aaron Dotson.

Alaska Native Science and Engineering Program (ANSEP). Co-developer, Environmental science and health educational modules for ANSEP Acceleration Academy. $12,000. Summer 2013.

The Rasmuson Foundation. Local food production in Alaska: Benefits, challenges, and opportunities. $40,000. March 2012-December 2012. Co-PI: Shannon Donovan, Department of Geography and Environmental Studies, UAA.

The Soil Science Society of America (SSSA). Top 50 questions for soil science research in the 21st Century: Defining the path for the future. (National survey and analysis with interdisciplinary team of scientists across the country; based at the University of Florida). Summer 2012-present. (Administrative support from SSSA).

Tower Endowment for Canadian Studies Speaker Fund Award. Symposium title: Community involvement in health impact assessment (HIA): Lessons from the Canadian experience. $1,000. 2011.

Integrative Faculty Development Grant. Project title: Anchorage community food assessment. $4,500. 2011. (PI: Elizabeth Hodges Snyder)

Denali Commission. Health and education sanitation learning modules. $10,000. January 2010-July 2011.

Center for Community Engagement and Learning (CCEL). Community Engaged Scholar Award (CESA). Graduate student research on vertical drip irrigation gardening in rural Alaska. 6 tuition credits. Fall 2010.

Center for Community Engagement and Learning (CCEL). Soil and Water Science in Public Health course development. $2,000. 2009-2010.

Integrative Faculty Development Grant. Project title: Health impact assessment of Pebble Mine. $4,500. 2009-2010. (PI: Elizabeth Hodges Snyder)

US EPA Office of Wastewater Management. In collaboration with the Procter & Gamble Company. Project title: Fate and transport of biosolids-borne Triclocarban. $87,400 matching funds. 2005-2009. Dissertation. (PI: George O'Connor)

Florida Department of Agriculture and Consumer Services (DACS). Project title: Literature review, volume I: Organic veterinary chemicals important in land-applied manure. $2,000. 2005. (PI: George O'Connor)

RSPH Global Field Experience Grant. Project title: Pesticide exposure behaviors in a rural farming community in Venezuela. $2,000. 2003. Masters Thesis. (Advisor: Rick Rheingans)

PUBLICATIONS

Jones, J., Nix, N., Hodges Snyder, E. (2014). Local perspectives of the ability of HIA stakeholder engagement to capture and reflect factors that affect Alaska Native health. International Journal of Circumpolar Health, http://dx.doi.org/10.3402/ijch.v73.24411.

Brown, S., Kristen, M., Hodges Snyder, E. Sowing Seeds in the City (two volume book in preparation; first draft due to publisher, Springer, in Fall 2014).

Adewopo, J., Bhomia, R., Hodges Snyder, E., Tiedeman, M., Bacon, A., Judy, J., VanZomeren, C., Miller, B., Lewis, R., Eggleston, E., Lusk, M., Almaraz, M., Moorberg. (2013). Top-ranked priority research questions for soil science in the 21st century. Soil Science Society of America Journal, doi:10.2136/sssaj2013.07.0291.

Snyder, E., Donovan, S. (2013). Methodologies for identifying food system research priorities: Dispatch from Alaska. Journal of Agriculture, Food Systems, and Community Development. 3(4): 183-199.

Snyder, E., O'Connor, G. (2013). Fate, transport, and risk of biosolids-borne triclocarban. Science of the Total Environment, 442: 437-444.

Snyder, E.H., O'Connor, G., McAvoy, D. (2010) Measured physicochemical characteristics and biosolids-borne concentrations of the antimicrobial triclocarban. Science of the Total Environment. 408(13): 2667-2673.

Snyder, E.H., O'Connor, G., McAvoy, D. (2010) Fate of ^{14}C-triclocarban in biosolids-amended soils. Science of the Total Environment. 408(13): 2726-2732.

Snyder, E.H., O'Connor, G., McAvoy, D. (2010) Bioaccumulation and toxicity of biosolids-borne triclocarban. Chemosphere. 82(3): 460-467.

Snyder, E.H., Nix, N. (2010) Up the food chain – Pollution in the Arctic in the International Polar Year book Polar Science and Global Climate, An International Resource for Education and Outreach. Ed. B. Kaiser.

Snyder, E.H. (2010) Community Engaged Scholars in Soil, Water, and Public Health. Alaska Environmental Health Association Summer Newsletter.

PRESENTATIONS

Oral Presentations

Snyder, E.H. Brownfields to green plates: Nutrition and health with urban agriculture. Presented at the ASA, CSSA, SSSA International Annual Meeting, November 2013.

Snyder, E.H. Soil and water science in assessing risk. Presented at the ASA, CSSA, SSSA International Annual Meeting, November 2013.

Nix NA, Garcia GJ, and Snyder LH. Innovative teaching approaches for asynchronous online public health courses. American Public Health Association 2013. Boston, Massachusetts. November 3-6, 2013. Abstract and Oral Presentation.

Alaska NEPA Workshop hosted by The Partnership Project with SaveOurEnvironment.org. "Health Impact Assessments". Anchorage, AK. February 2013 (invited oral presentation).

Urban in Alaska Conference. "Food Security in the Urban Frontier". Anchorage, AK. March 2013 (invited oral presentation).

Snyder, E.H. and Donovan, S. Food security in Alaska: Challenges, opportunities, and benefits of local food production and distribution. Presented at the 15th International Congress on Circumpolar Health. Fairbanks, Alaska. August 2012.

Snyder, E.H. The role of health impact assessments in decisions that affect communities. (teleconference). Presented for Alaska Community Action on Toxics (ACAT) Collaborative on Health and the Environment (CHE-Alaska). September 29, 2011. (Invited)

Snyder, E.H. Health impact assessment in Alaska. Presented for Trustees for Alaska. Fall 2011. (Invited)

Snyder, E.H. Fate and transport of metals in the environment. (4-hour lecture). Presented at "Impacts of Metals and Metallic Mining on Aquatic Ecosystems and Human Health", a 3-day seminar hosted by the Conservation Planning Assistance Branch of the US Fish and Wildlife Service, The Nature Conservancy, and the UAA Department of Health Sciences, Nov. 30,

Dec. 1, and Dec. 2, 2010.

Snyder, E.H. Using community engagement to educate students and the public about the importance of social, economic, and environmental determinants of health, Alaska Health Summit, Jan. 2011.

Snyder, E.H. Environmental impacts vs. Health impacts: How to weight, rank, prioritize and reconcile in formal assessments? (Panel Chair) Presented at the Association of Environmental Studies and Sciences, Summer 2010.

Snyder, E.H. Fate, transport, and risk assessment of triclocarban. Presented via webcast to employees of the Procter & Gamble Company, Fall, 2009. (Invited)

Snyder, E.H. Risk assessment of land-applied biosolids: The case of Triclocarban (TCC). Presented at the Northwest Biosolids Management Association's Annual Biosolids Management Conference, 2009. (Invited)

Snyder E.H., O'Connor, G., McAvoy, D. Fate and transport of biosolids-borne Triclocarban. Presented at the Micropol and Ecohazard Conference, 2009. First-place finish in student presentation competition.

Snyder, E.H., O'Connor, G., McAvoy, D. Fate and transport of biosolids-borne Triclocarban. Presented at the SETAC North America 29th Annual Meeting, 2008.

Snyder, E.H. Soils and public health. Presented at the Global Connections Between Earth Sciences, Health, and Policy: A Symposium in Celebration of the International Year of Planet Earth, 2008. The National Academies. (Invited)

Snyder, E.H., O'Connor, G., McAvoy, D. Risk assessment of biosolids-borne Triclocarban. Presented at the ASA-CSSA-SSSA Annual Meeting, 2008.

Snyder, E.H., O'Connor, G., McAvoy, D. Fate and transport of biosolids-borne Triclocarban. Presented at the ASA-CSSA-SSSA Annual Meeting, 2007.

Snyder, E.H. and McAvoy, D. Fate and transport of biosolids-borne Triclocarban. Presented at the Procter & Gamble CPS-Env. Intern Meeting, 2006.

Poster Presentations

Snyder, E.H. and Donovan, S. Food security and local food production in Alaska: Status, challenges, and opportunities. Presented at the 8th Circumpolar Agricultural Conference and UArctic Inaugural Food Summit, October 2013.

Snyder, E.H. Food security and health research in the UAA Master of Public Health program. Presented at the 8th Circumpolar Agricultural Conference and UArctic Inaugural Food Summit, October 2013.

Snyder E.H. Society of Practitioners of Health Impact Assessment (SOPHIA). Presented at the Health Impact Assessment 2012 conference. Quebec, Canada. August 2012.

Snyder, E.H. Health impact assessment of the proposed Pebble Mine. Presented at the Alaska Forum on the Environment, Spring 2010.

Snyder, E.H. Health impact assessment of the proposed Pebble Mine. Presented at the Health Impact Assessment in the Americas workshop, Spring 2010.

Snyder, E.H., O'Connor, G., McAvoy, D. Environmental transport of biosolids-borne Triclocarban. Presented at the University of Florida Water Institute Symposium, 2008. First-place finish in student poster competition.

Snyder, E.H., O'Connor, G., McAvoy, D. Fate and transport of biosolids-borne Triclocarban. Presented at the World Congress of Soil Science, 2006.

Snyder, E.H. and O'Connor, G. A new graduate course at the University of Florida: Soils and public health, 2006. Presented at the World Congress of Soil Science, 2006.

SKILLS

Institutional Review Board (IRB) package preparation.

Computer Experience – Adobe Presenter, ArcGIS, Atlas.ti, Blackboard, Camtasia, DreamWeaver, EpiInfo, Excel, PowerPoint, SAS, SPSS, Squarespace, Wix, and XCalibur.

Analytical/Laboratory – Accelerated Solvent Extraction (ASE), HPLC/MS/MS, Liquid Scintillation Counting (LSC), Radio Thin-Layer Chromatography (RAD-TLC), and Rapid Flow Analysis (RFA). Experience designing and constructing laboratory experiments.

Journal Manuscript Review

- Environmental Science & Technology. 2008(1)
- Journal of Environmental Quality. 2009(1), 2011(1), 2012(1).
- International Journal of Circumpolar Health. 2011(2), 2012(2).
- Child: Care, Health, and Development. 2014(1)

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