
HENRY Y. SINTIM

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Education:

2015-2018: Ph.D. Soil Science, Washington State University (WSU), Department of Crop and Soil Sciences, Pullman, WA.

Specialization: Soil Management and Applied Soil Physics

Selected Courses: Physical Chemistry of Soils; Soil-Plant-Microbial Interaction; Environmental Soil Physics; Environmental Spatial Statistics; Environmental Biophysics.

2013-2014: M.Sc. Agronomy (Minor in Statistics), University of Wyoming, Laramie, WY.

Specialization: Sustainable Cropping Systems

Selected Courses: Plant & Crop Physiology; Plant Breeding; Soil Fertility; Water & Chemical Transport; Soil Physics; Irrigated Agriculture; Statistical Methods in Agriculture & Nature; Applied Multivariate Analysis.

2007-2011: B.Sc. Agriculture, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana.

Specialization: Crop Science

Selected Courses: Crop Production & Ecology; Sustainable Agriculture; Soil & Water Management; Irrigation and Flood Control; Soil Genesis & Physics; Agricultural Meteorology; Management Information Systems.

Professional/ Work Experience:

2019-Present: Assistant Professor, Soil Fertility and Plant Nutrition, Department of Crop and Soil Sciences, University of Georgia, Tifton, GA.

- Develop a robust and extramurally-funded research program on soil and nutrient management. Specific studies include the mitigation of nutrient limitation in crop production, biological products for better nutrient uptake and efficiency in plants, and the application of sustainable management practices to improve soil health.
- Collaborate with the University of Georgia Soil Testing Laboratory to update and calibrate fertilizer recommendations, including soil and tissue sampling.
- Assist county extension agents through demonstrations, in-service-trainings, meetings, county visits, and telephone consultations.
- Develop educational materials on plant nutrition, soil fertility, and crop production.
- Mentor undergraduate and graduate students, as well as visiting scholars.

2018-2019: Postdoctoral Research Associate, Puyallup Research and Extension Center,

WSU, Puyallup, WA.

- Evaluated the effects of biodegradable plastic mulch on water use efficiency of pie pumpkin (*Cucurbita pepo*) and corn (*Zea mays*).
- Quantified the effects of biodegradable plastic mulch on gas exchange and soil microclimate dynamics.
- Evaluated potential groundwater pollution of biodegradable plastic mulch residues and nutrients.
- Researched the effects of biodegradable plastic mulch on soil health under corn and green pepper (*Capsicum annuum*) production.
- Undertook inter-disciplinary research collaborations with various scientists and supervise undergraduate and graduate student research projects.

2015-2018: Graduate Assistant, Department of Crop and Soil Sciences, WSU, WA.

- Developed soil health assessment strategies to quantify the effects of biodegradable plastic mulch on soil health under pie pumpkin production.
- Applied HYDRUS 2D/3D for numerical simulation of the effects of biodegradable plastic mulch on soil moisture dynamics.
- Quantified degradation of biodegradable plastic mulches in soil and compost by image analysis and the evolution of carbon dioxide.
- Characterized mulch degradation products by Fourier transformed infrared spectroscopy, $\delta^{13}\text{C}$ isotope analyses, and single particle mass spectrometry.
- Embarked on inter-disciplinary research collaborations with various scientists and supervised undergraduate student research projects.

2013-2014: Graduate Research Assistant, Department of Plant Sciences, University of Wyoming, Laramie, WY.

- Optimized camelina (*Camelina sativa*) production for the Great Plains by conducting variety screening, nutrient management, harvesting time, and harvesting methods studies.
- Determined the viability of incorporating camelina into dryland wheat-fallow rotation systems in the Great Plains, by assessing crop productivity, soil health, environmental quality, and financial performance.
- Supervised cultivar and nutrient management trials of alfalfa (*Medicago sativa* L.) and sainfoin (*Onobrychis viciifolia* Scop.).
- Evaluated the impact of using coal-bed methane water as a source of irrigation water for crop production.
- Assisted in managing distillation laboratory and conducted experiments to optimize hydrodistillation protocols.

2012: Field Technician, Crops Research Institute, Council for Scientific and Industrial Research, Fumesua, Ghana.

- Supervised germplasm screening for aromatic rice lines.
- Managed mass production of rice breeder seeds.

- Analyzed experimental data and prepared research progress reports.

2011- 2012: Teaching and Research Assistant (National Service), Department of Crop and Soil Sciences, KNUST, Ghana.

- Managed the department's plant biotechnology laboratory.
- Supervised *in vitro* conservation of cassava, yam, sweet potato, pineapple, vanilla, and tobacco germplasm.
- Conducted disease diagnosis based on molecular characterization of pathogens.
- Assisted in supervising undergraduate research projects.

2009: Laboratory Technician (Internship), Soil Science Division, Cocoa Research Institute of Ghana (CRIG), New Tafo-Akim, Ghana.

- Evaluated soil health of experimental cocoa plantation fields.
- Assisted in mapping cocoa ecological zones in Ghana
- Performed nutrient analyses of plant samples.

Teaching Experience:

2019 Present: Support instructor for Soils and Hydrology Course (CRSS 3060), Fall 2019 Semester, University of Georgia, Tifton.

2015-2018: Provided teaching assistant for Environmental Soil Physics (SOILS 513) course, Washington State University.

2016-2017: Main Instructor for a workshop on "Data Management and Statistical Analyses with R Software," Faculty of Agriculture, KNUST, Ghana, January 11-12, 2016 and January 9-13, 2017.

2014: Guest lecturer for Organic Food Production Course (PLNT 5120). Taught "Integration of Oilseeds into Cropping Systems," University of Wyoming.

2012: Provided teaching assistant for Plant Breeding (CS 461), Plant Biotechnology (CS 458) and Genetics (CS 156) courses, KNUST, Ghana.

2012: Supervised laboratory sessions for Methods in Molecular Biology (AGB 254) and Plant Biotechnology (AGB 352) courses.

Extension/ Outreach Activities:

2019-Present: On-farm assessment of soil and nutrient management related issues for growers across the state of Georgia.

2018: Co-ordinated research field tour on biodegradable plastic mulch for Washington Recycling Organic Council Board Members, North-western Washington Research and Extension Center, Mount Vernon, WA, September 23, 2018.

2017: Co-organized a workshop for the Pierce County Conservation District on "Manure Spreading, Composting, and Degradability of Biodegradable Plastic Mulch," Puyallup Research and Extension Center, Puyallup, WA, August 28, 2017.

2017: Assisted in coordinating "Hands-On Biodegradable Plastic Mulch Laying" Field Day, Cloudview Farm, Ephrata, WA. May 25, 2017.

- 2013-2014: Assisted in organizing summer field days and extension workshops, Sheridan Research and Extension Center, University of Wyoming, Laramie, WY.
- 2013-2014: Coordinated on-farm research trials with producers to investigate the viability of incorporating camelina into wheat-fallow rotation systems in Rancheater, Wyoming.
- 2012: Educated farmers and undergraduate interns on agronomic practices for lowland rice production in the Ashanti Region of Ghana.
- 2012: Coordinated on-farm multi-location rice trials with producers in the Ashanti Region and Volta Region of Ghana.
- 2009: Trained producers on fertilizer recommendations for cocoa production.

Workshop Training/ Services:

- 2017: Participant of DSSAT Workshop on “Assessing Crop Production, Nutrient Management, Climatic Risk, and Environmental Sustainability with Simulation Models,” University of Georgia, Griffin, GA, May 15-20, 2017.
- 2017: Science Communication Workshop, Puyallup Research & Extension Center Graduate Student Association, WSU, Puyallup, WA, November 27, 2017.
- 2015: Participant of ACS Graduate Student Leadership Conference, ASA-CSSA-SSSA, Minneapolis, MN, November 14-15, 2015.
- 2015: Compost Facility Operators Training, Washington Recycling Organic Council, Puyallup, WA, October 19-23, 2015.
- 2015: Workshop on “Data Analysis with R,” Puyallup Research & Extension Center, Puyallup, WA.
- 2013: Radiation Safety Training, Environmental Health & Safety, University of Wyoming, Laramie, WY, May 09-10, 2013.
- 2008-2012: Student outreach programs (volunteered at least once a year, spanning 1-2 weeks) with Ghana Fellowship of Evangelical Students, Pentecost Students and Associates, Apostolic Student Association, and Victory International Student Association.
- 2005: Participant of National Leadership Conference for High Schools, Ghana Scripture Union, Achimota Secondary School, Accra, Ghana, May 2-6, 2005.

Leadership Experience:

- 2018-Present: Representative of American Society of Agronomy, Graduate School Workshop Committee, Madison, WI.
- 2018: Planning Committee Member, Compost Facility Operators Training, Washington Recycling Organic Council.
- 2016-2017: Member of the Board of Directors (as the Graduate Student Representative), Crop Science Society of America, Madison, WI.
- 2016-2017: Academic and Social Coordinator, Puyallup Research & Extension Center Graduate Student Association, WSU, Puyallup, WA.
- 2015-2017: Safety Committee Member (as the Student Representative), Puyallup Research and Extension Center, WSU, Puyallup, WA.
- 2016: Committee Chair, 2016 ACS Graduate Student Leadership Conference, Phoenix, AZ, November 5-6, 2016.

- 2016: Committee member of (a) Communicating Science Workshop, and (b) Elevator Speech Context. ASA-CSSA-SSSA Annual Meeting, Phoenix, AZ, November 6-9, 2016.
- 2015: Coordinator of Soil Physics and Hydrology sessions I and II, ASA-CSSA-SSSA Annual Meeting, Minneapolis, MN, November 15-18, 2015.
- 2015: Committee member of (a) ACS Graduate Student Leadership Conference, and (b) ACS Graduate Student Networking Session, ASA-CSSA-SSSA Annual Meeting, Minneapolis, MN, November 14-15, 2015.
- 2009 -2011: Executive member, PENSA-KNUST, Kumasi, Ghana.
- 2008 -2009: Executive member, Agricultural Christian Fellowship, KNUST, Kumasi, Ghana.
- 2005 -2006: President, Scripture Union, Armed Forces Sec. Tech. Sch., Accra, Ghana.

Professional Membership:

- 2017-Present: American Association for the Advancement of Science (AAAS).
- 2014-Present: American Society of Agronomy (ASA).
- 2014-Present: Soil Science Society of America (SSSA).
- 2014-Present: Crop Science Society of America (CSSA).
- 2014-Present: Gamma Sigma Delta- The Honor Society of Agriculture.
- 2014-Present: Golden Key International Honor Society, Atlanta, GA.
- 2007-2011: Agricultural Students Association, Faculty of Agriculture, KNUST, Ghana.
- 2003-2006: Science and Maths club, Armed Forces Sec. Tech. Sch., Accra, Ghana.

Scientific Journal Reviews:

- 2019-Present: Reviewer for Soil Research, Publication of CSIRO Publishing, Clayton, Australia.
- 2019-Present: Reviewer for Agronomy, Publication of MDPI, Basel, Switzerland.
- 2018-Present: Reviewer for Environmental Science and Pollution Research, Publication of Springer, Berlin, Germany.
- 2017-Present: Reviewer for Scientific Reports, Publication of Nature, Macmillan Publishers.
- 2017-Present: Reviewer for Journal of Hydrology, Publication of Elsevier.
- 2016-Present: Reviewer for Agronomy Journal, Publication of American Society of Agronomy.

Awarded Grants:

- 2016: USDA Western Sustainable Agricultural Research and Education Grant (GW17-019; \$23,063) “Biodegradable plastic mulches: performance, degradation, and impacts on agroecosystems.”
- 2014: USDA Western Sustainable Agricultural Research and Education Grant (GW15-038; \$24,916) “Optimizing camelina feedstock production in wheat/fallow rotation with a minimum negative impact on wheat production.”

Contributed Projects:

- 2017-Present: Impacts of Biochar and Tillage Practices on Nitrogen Use Efficiency in Cotton-Wheat Crop rotation (\$30,000). International Research Support Initiative Programme, Higher Education Commission, Pakistan.
- 2015-Present: Biodegradable Plastic Mulch for Sustainable Specialty Crop Production (\$4,700,000). Specialty Crop Research Initiative; USDA National Institute of Food and Agriculture, United States.
- 2013-2014: Enhancing Economic Viability of Camelina as Bio-Feedstock: Optimization and Demonstration of the Production System and Bioproduct Development (\$4,708,207). Biomass Research and Development Initiative; USDA National Institute of Food and Agriculture, United States.
- 2011-2012: Improving Yield, Quality and Adaptability of Upland Rice Varieties in Ghana to Reduce Dependency on Imported Rice (\$184,820). The Alliance for a Green Revolution in Africa (AGRA), Nairobi, Kenya.

Fellowships/ Scholarships:

- 2017: Roscoe and Frances Cox Scholarship, WSU, Pullman, WA.
- 2016: O. A. Vogel Washington State Crop Improvement Association Scholarship, WSU, Pullman, WA.
- 2015: ASA Travel Award, Department of Crop and Soil Sciences, WSU, Pullman, WA.
- 2015: Washington Recycling Organic Council Scholarship for Compost Facility Operators Training, Puyallup, WA.
- 2015: GA Harris Fellowship, Decagon Devices (now Meter Group Inc.), Pullman, WA.
- 2014: Summer Graduate Scholarship, University of Wyoming, Laramie, WY.
- 2012: Developing Solutions Scholarship (Ref No: 13158), The University of Nottingham, UK.
- 2010: College of Agriculture and Natural Resources Bursary, KNUST, Kumasi, Ghana.

Awards/ Honours:

- 2017: GPSA Excellence Award for outstanding performance as a Research Assistant, 2016/2017 academic year, Graduate School, WSU, Pullman, WA.
- 2016-2017: Mug Award for the first author of a refereed journal paper, Department of Crop and Soil Sciences, WSU, Pullman, WA.
- 2016: First Place, Graduate Student Oral and Poster Competition, Soil Physics and Hydrology Division, ASA-CSSA-SSSA Annual Meeting, Phoenix, AZ, November 6-9, 2016.

Refereed Publications:

** Indicates corresponding authorship*

- Sintim, H.Y.**, Bandopadhyay, S., English, M.E., Bary, A.I., DeBruyn, J.M., Schaeffer, S.M., Miles, C.A., Reganold, J.P., Flury, M. 2019. Impacts of biodegradable plastic mulches on soil health. *Agric. Ecosyst. Environ.* 273, 36–49.
- Sintim, H.Y.**, Bary, A.I., Hayes, D.G., English, M.E., Schaeffer, S.M., Miles, C.A., Zelenyuk, A., Suski, K., Flury, M., 2019. Release of micro- and nanoparticles from biodegradable plastic during in situ composting. *Sci. Total Environ.* 675, 686–693.

- Shahzad, K., Bary, A.I., Collins, D.P., Chalker-Scott, L., Abid, M., **Sintim, H.Y.**, Flury, M. 2019. Carbon dioxide and oxygen exchange at the soil-atmosphere boundary as affected by various mulch materials. *Soil Tillage Res.* 194, 104335.
- Shahzad, K., Abid, M., **Sintim, H.Y.***, Hussain, S., Nasim, W. 2019. Tillage and biochar application: effects on wheat productivity under arid climate conditions. *Crop Sci.* 59, 1–9.
- Zhang, L., **Sintim, H.Y.**, Bary, A.I., Hayes, D.G., Wadsworth, L.C., Anunciado, M.B., Flury, M. 2018. Interaction of *Lumbricus terrestris* with macroscopic polyethylene and biodegradable plastic mulch. *Sci. Total Environ.* 635, 1600–1608.
- Shahzad, K., Abid, M., **Sintim, H.Y.***. 2018. Wheat productivity and economic implications of biochar and inorganic nitrogen application. *Agron. J.* 110, 1–9.
- Obour, A.K., Chen, C., **Sintim, H.Y.**, McVay, K., Lamb, P., Obeng, E., Mohammed, Y.A., Khan, Q., Afshar, R.K., Zheljzkov, V.D., 2018. *Camelina sativa* as a fallow replacement crop in wheat-based crop production systems in the US Great Plains. *Ind. Crops Prod.* 111, 22–29.
- Saglam, M., **Sintim, H.Y.**, Bary, A.I., Miles, C.A., Ghimire, S., Inglis, D.A., Flury, M., 2017. Modeling the effect of biodegradable paper and plastic mulch on soil moisture dynamics. *Agric. Water Manag.* 193, 240–250.
- Hayes, D.G., Wadsworth, L.C., **Sintim, H.Y.**, Flury, M., English, M., Schaeffer, S., Saxton, A.M., 2017. Effect of diverse weathering conditions on the physicochemical properties of biodegradable plastic mulches. *Polym. Test.* 62, 454–467.
- Sintim, H.Y.**, Zheljzkov, V.D., Foley, M.E., Evangelista, R.L., 2017. Coal-bed methane water: effects on soil properties and camelina productivity. *J. Environ. Qual.* 46, 641–648.
- Sintim, H.Y.**, Adjesiwor, A.T., Zheljzkov, V.D., Islam, M.A., Obour, A.K., 2016. Nitrogen application in sainfoin under rain-fed conditions in Wyoming: productivity and cost implications. *Agron. J.* 108, 294–300.
- Sintim, H.Y.**, Zheljzkov, V.D., Obour, A.K., Garcia y Garcia, A., Foulke, T.K., 2016. Evaluating agronomic responses of camelina to seeding date under rain-fed conditions. *Agron. J.* 108, 349–357.
- Sintim, H.Y.**, Zheljzkov, V.D., Obour, A.K., Garcia y Garcia, A., 2016. Managing harvest time to control pod shattering in oilseed camelina. *Agron. J.* 108, 489–494.
- Sintim, H.Y.**, Zheljzkov, V.D., Obour, A.K., Garcia y Garcia, A., Foulke, T.K., 2015. Influence of nitrogen and sulfur application on camelina performance under dryland conditions. *Ind. Crops Prod.* 70, 253–259.
- Obour, A.K., **Sintim, H.Y.**, Obeng, E., Jeliaskov, V.D., 2015. Oilseed camelina (*Camelina sativa* L. Crantz): production systems, prospects and challenges in the USA Great Plains. *Adv. Plants Agric. Res.* 2, 1–10.
- Sintim, H.Y.**, Burkhardt, A., Gawde, A., Cantrell, C.L., Astatkie, T., Obour, A.E., Zheljzkov, V.D., Schlegel, V., 2015. Hydrodistillation time affects dill seed essential oil yield, composition, and bioactivity. *Ind. Crops Prod.* 63, 190–196.
- Burkhardt, A., **Sintim, H.Y.**, Gawde, A., Cantrell, C.L., Astatkie, T., Zheljzkov, V.D., Schlegel, V., 2015. Method for attaining fennel (*Foeniculum vulgare* Mill.) seed oil fractions with different composition and antioxidant capacity. *J. Appl. Res. Med. Aromat. Plants* 2, 87–91.
- Shiwakoti, S., **Sintim, H.Y.**, Poudyal, S., Bufalo, J., Cantrell, C.L., Astatkie, T., Jeliaskova, E., Ciampa, L., Zheljzkov, V., 2015. Diurnal effects on *Mentha canadensis* oil concentration and composition at two different harvests. *HortScience* 50, 85–89.
- Sintim, H.Y.***, Akromah, R., 2015. Differing sucrose requirements for *in-vitro* conservation of cassava genotypes. *Int. J. Plant Soil Sci.* 7, 45–54.

Extension Publications:

- Sintim, H.Y.**, Shahzad, K., Bary, A. I., and Flury, M. 2017. Navigating WSU Puyallup compost mixture calculator. Puyallup Research and Extension Center, WSU, Puyallup, WA.
- Sintim, H.Y.**, Shahzad, K., Bary, A. I., and Flury, M. 2017. How well does biodegradable plastic mulch degrade in compost and soil? Puyallup Research and Extension Center, WSU, Puyallup, WA.
- Flury, M., Bary, A., DeBruyn, J. Schaeffer, S., **Sintim, H.**, and Bandopadhyay, S. 2015. What is soil quality and how is it measured? Report # SE-2015-01, Biodegradable Mulch, University of Tennessee, Knoxville.
- Sintim, H.Y.**, Jeliaskov, V.D., Obour, A.K., Garcia y Garcia, A. and Foulke, T.K. and Vardiman, J. 2014. Effects of nitrogen and sulfur application on camelina. Agricultural Experiment Station: Field Days Bulletin; Pages 117-118, University of Wyoming, Laramie, WY.
- Sintim, H.Y.**, Jeliaskov, V.D., Obour, A.K., Garcia y Garcia, A. and Foulke, T.K. and Smith, D. 2014. Camelina as an alternative crop in wheat-fallow rotation. Agricultural Experiment Station: Field Days Bulletin; Pages 113-114, University of Wyoming, Laramie, WY.
- Jeliaskov, V.D. and **Sintim, H.Y.** 2014. Evaluation of alfalfa and sainfoin varieties under dryland environment. Agricultural Experiment Station: Field Days Bulletin; Page 103, University of Wyoming, Laramie, WY.
- Jeliaskov, V.D. and **Sintim, H.Y.** 2014. Sainfoin under test for forage productivity and quality. Agricultural Experiment Station: Field Days Bulletin; Page 103, University of Wyoming, Laramie, WY.
- Sintim, H.Y.**, Jeliaskov, V.D., Obour, A.K., Garcia y Garcia, A. and Foulke, T.K. and Vardiman, J. 2013. Seeding date and cultivar affects growth and yield of camelina. Agricultural Experiment Station: Field Days Bulletin; Pages 115-116, University of Wyoming, Laramie, WY.
- Sintim, H.Y.**, Jeliaskov, V.D., Obour, A.K., Garcia y Garcia, A. and Foulke, T.K. 2013. The effects of seeding date, cultivar, and nitrogen on the performance of camelina. Agricultural Experiment Station. Field Days Bulletin; Pages 119-120, University of Wyoming, Laramie, WY.

Newsletter/ Viewpoint Articles:

- Sintim, H.Y.**, Flury, M., 2017. Is biodegradable plastic mulch the solution to agriculture's plastic problem? Environ. Sci. Technol. 51, 1068–1069.
- Sintim, H.Y.** 2016. How the DiSC assessment can help build better relationships in your career. CSA News Magazine 61:30-31, ASA-CSSA-SSSA.
- Sintim, H.Y.** 2015. Seeing challenges as stepping stones in graduate education. CSA News Magazine 60:40-42, ASA-CSSA-SSSA.

News/ Features:

- Thompson C. 2019. New UGA scientist will study soil makeup on Tifton campus. The Tifton Gazette. https://www.tiftongazette.com/news/new-uga-scientist-will-study-soil-makeup-on-tifton-campus/article_a629f036-d417-11e9-b238-5b25c854a2c7.html

- USDA-NIFA, 2018. Biodegradable plastic mulch. USDA National Institute of Food and Agriculture. <https://nifa.usda.gov/announcement/biogradable-plastic-mulch>
- USDA-Western SARE, 2018. Biodegradable plastic mulches: performance, degradation, and impacts on agroecosystems. Western Sustainable Agriculture Research & Education, USDA-NIFA. <https://www.westernsare.org/Learning-Center/From-the-Field/Biodegradable-Plastic-Mulches>
- Campbell, C. 2016. Are biodegradable mulches actually better for the environment? (Part II). Environmental Biophysics. <http://www.environmentalbiophysics.org/biodegradable-mulches-actually-better-environment-part-ii/>
- Campbell, C. 2016. Are biodegradable mulches actually better for the environment? Environmental Biophysics. <http://www.environmentalbiophysics.org/biodegradable-mulches-actually-better-environment/>

Conference Papers (over 30; recent five are listed):

- Sintim, H.Y.**, Bandopadhyay, S., English, M.E., Bary, A., DeBruyn, J. Schaeffer, S., and Flury, M. 2019. Biodegradable plastic mulch effects on soil health. SSSA International Soils Meeting, San Diego, CA, Jan 06-09, 2019.
- Sintim, H.Y.**, Bandopadhyay, S., English, M.E., Bary, A., DeBruyn, J. Schaeffer, S., and Flury, M. 2018. Degradation of biodegradable plastic mulch and impacts on soil health. USDA-SCRI Coordinated Agricultural Project (Award 2014-51181-22382) Annual Meeting, Spokane, WA, May 19-21, 2018.
- Sintim, H.Y.**, Bandopadhyay, S., English, M.E., Bary, A., DeBruyn, J. Schaeffer, S., and Flury, M. 2017. Biodegradable plastic mulch: impacts on soil quality and degradation in soil and compost. ASA-CSSA-SSSA Annual Meeting, Phoenix, AZ, Oct 22-25, 2017. <https://scisoc.confex.com/scisoc/2017am/webprogram/Paper107127.html>.
- Sintim, H.Y.** 2017. Biodegradable plastic mulch: degradation and impacts on soil ecology. USDA-SCRI Coordinated Agricultural Project (Award 2014-51181-22382) Annual Meeting, Knoxville, TN, March 20-22, 2017.
- Flury, M., **Sintim, H.**, Bary, A., English, M., and Schaeffer, S. 2017. Nanoparticles from degradation of biodegradable plastic mulch. European Geosciences Union General Assembly, Vienna, Austria, Apr. 23-28, 2017. <http://meetingorganizer.copernicus.org/EGU2017/posters/23005>.