Last Name	First Name	Department	Other Department Affiliations	Description of Scholarly Work	Sustainability Challenges Addressed	Engagement with Others	
Ambwani	Suman	Psychology		prevention and treatment of eating disorders. I am also interested in issues relating to social justice (e.g., weight- based discrimination) and social systems	Eating disorders are an important public health concern. They are linked with significant distress, impairment in functioning, and a wide variety of health problems (including high mortality risk). However, eating disorders are difficult to treat and are linked with high rates of relapse. Thus, identifying appropriate strategies for prevention and treatment is an important and ongoing challenge that warrants further attention.	Dickinson Students Colleagues at other institutions Colleagues at other institutions outside the U.S. Colleagues in other disciplines	Levinson, J., Sarda, V., Sonneville association of diet pill and laxati disorder in a cohort of U.S. youn Cardi, V., Albano, G., Ambwani, S press). A randomized clinical tria augmentation of outpatient care McBride, C, Costello, N, Ambwar models' appearance in mass me incentives to protect public heal doi:10.1177/0098858819849990 Ambwani, S., *Shippe, M., *Gao, strategy? Perceptions of clean ex Eating Disorders, 7, 1-14. https:/ Cardi, V., Ambwani, S., Robinsor S., Arcelus, J., Beecham, J., and T and carer expertise (TRIANGLE): Review, 25, 512-523. doi:10.100 Ambwani, S., *Baumgardner, M. experimental investigation of res 10.1016/j.bodyim.2017.08.007
Arnedo	Asuncion	Spanish and Portuguese	Latin American, Latinx and Caribbean Studies	I am working with the concerns of the wellbeing of people in the environment, where social justice can work in an environmentally healthy system: migrant communities, labor conditions, and health issues.	Social justice, human security, and its environmental interdependency	Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions Colleagues at other institutions outside the U.S.	Tilman, D., and Clark, M. (2014). 515(7528), 518–+. https://doi.or Svanstrom, Magdalena, Francisc Development in Higher Educatio 51. Print. Barkemeyer, Ralf, et al. "What H Guidelines Two Decades After B Miranda Gómez, O., Mora Gonza sostenibilidad de la defensa. Rev http://scielo.sld.cu/scielo.php?s Martínez Beleño, C. (2014). Com Sostenibilidad Social. Escenarios

ille, K., Calzo, J.P., Ambwani, S., and Austin, S.B. (in press). Prospective itive use for weight control with subsequent first diagnosis with an eating ung women. American Journal of Public Health.

i, S., Cao, L., Crosby, R.D., Macdonald, P., Schmidt, U., and Treasure, J. (in rial to evaluate the acceptability and efficacy of an early phase, online, guided are for adults with anorexia nervosa. Psychological Medicine.

vani, S, Wilhite, B, and Austin, S.B. (2019). Digital manipulation of images of nedia: Strategies for action through law and corporate social responsibility ealth. American Journal of Law and Medicine, 45, 7-31.

ao, Z., and Austin, S.B. (2019). Is #cleaneating a healthy or harmful dietary eating and associations with disordered eating among young adults. Journal of s://doi.org/10.1186/s40337-019-0246-2

on, E., Albano, G., Macdonald, P., Shepherd, V., Todd, G., Schmidt, U., Landau, d Treasure, J. (2017). Transition care in AN through guidance online from peer E): Study protocol for a randomized controlled trial. European Eating Disorders 202/erv.2542.2017

M., *Guo, C., *Simms, L., and *Abromowitz, E. (2017). Challenging fat talk: An reactions to body-disparaging conversations. Body Image, 23, 85-92. doi:

4). Global diets link environmental sustainability and human health. Nature, org/10.1038/nature13959

sco Lozano-Garcia, and Debra Rowe. "Learning Outcomes for Sustainable ion." International Journal of Sustainability in Higher Education 9.3 (2008): 339-

Happened to the 'Development' in Sustainable Development? Business Brundtland." Sustainable Development 22.1 (2014): 15-32. Print.

nzález, S., and Menéndez López, J. (2011). Vulnerabilidades de salud y la evista Cubana de Medicina Militar, 40(1), 85–93. Retrieved from ?script=sci_arttextandpid=S0138-65572011000100012andlng=enandtlng=en

municación y Educación para El Desarrollo: Salud, Medio Ambiente y os, 11(2). https://doi.org/10.15665/esc.v11i2.117

Last Name	First Name	Department	Other Department Affiliations	Description of Scholarly Work	Sustainability Challenges Addressed	Engagement with Others	
Arnold	Tom	Biology	Biochemistry and Molecular Biology, Environmental Science, Food Studies, Health Studies	I am a broadly-trained interdisciplinary biologist interested in how environmental change impacts plant and the organisms that interact with them. I have studied climate change (especially CO2 rise, warming, eutrophication, and ocean acidification) as stressors for plants, including seagrasses, kelps, forest trees, and crop plants, among others. This has involved studies of carbon flux in ecosystems, plant-herbivore interactions, and the production of plant natural products (some of which have interesting medicinal properties).	diversity loss, habitat conservation, disease outbreaks, invasive species, eutrophication, food quality issues, sea level rise, trophic cascade collapse.	Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions Colleagues at other institutions outside the U.S. Colleagues in other disciplines	
Ball	Jeremy	History	Africana Studies	I am currently researching medicinal plants in nineteenth-century Angola. Medicinal plants has resonance for cultural and economic sustainability.		Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions Colleagues at other institutions outside the U.S. Colleagues in other disciplines	
Barber	Teresa	Psychology	Neuroscience	My research studies alternative treatments of impaired memory, comparing said treatments to traditional medications.	Many of the alternative treatments we study have included herbal remedies and behavioral treatments.	Dickinson Students Colleagues at other institutions outside the U.S.	 Barber, T.A., and Frenkel, G.B. E old chick. In Preparation. Barber, T.A., Edris, E.M., Levinsk scopolamine-induced amnesia b Pharmacology, 27, 536-541. Dembling, S.J., Gilhooly, D.J. (co- Acute aerobic activity improves Psychological Association. Harten, E.G., Lowden, O.C. (co-fi The decrease in anxiety in valeri Annual Meeting of the Eastern F Lau, H., The Fall 2016 Psycholog dietary supplement Prevagen® c Psychological Association. Frenkel, G.B., Beard, I.R., and Ba the day-old chick. Annual Meetin

. Enhanced socialization ameliorates scopolamine-induced amnesia in the day-

nsky, P.J., Williams, J.M, Brouwer, A.R., and Gessay, S.A. (2016). Amelioration of ia by phosphatidylserine and curcumin in the day-old chick. Behavioural

(co-first authors), Psychology 325 Fall 2017 Class, and Teresa A. Barber. (2019). res memory acquisition in the day-old chick. Annual Meeting of the Eastern

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logy 325 Research Class, and Barber, T.A. (2018). Intraperitoneal injection of the [®] does not improve short-term memory. Annual Meeting of the Eastern

Barber, T.A. (2016). Olfactory cues ameliorate scopolamine-induced amnesia in teting of the Eastern Psychological Association.

Last Name	First Name	Department	Other Department Affiliations	Description of Scholarly Work	Sustainability Challenges Addressed	Engagement with Others	
Barker	Kathryn	Chemistry			the General Chemistry course. The Valley and Ridge summer workshop helped by giving support, context, and feedback	Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions Colleagues in other disciplines	
Bates	Alex	East Asian Studies	Film and Media Studies	I am interested in Eco-criticism and specifically the ways nature is perceived in moments of natural disaster.	I examine precarious communities at risk of impact from major "natural" catastrophes which could be linked to climate change through representation in fiction and film.	Dickinson Students Dickinson Faculty and Staff	Alex Bates "Nature and disaster i et. al., eds. Lexington Books (201
Beevers	Michael	Environmental Studies	International Studies	I currently have two research agenda. The first seeks to understand how the environment and natural resources can be both a catalyst for violent conflict, but also peace. There are many, many dimensions that overlap with sustainable development. However, the most obvious is that sustainable development will be difficult, if not impossible, without peace and security. The second seeks to examine how climate change adaptation funding, which is needed predominantly in poor, fragile and poorly governed countries, is used in ways that promote instability and insecurity or stability and security. Again, it overlaps with many SD goals.	growth, environmental protection, extraction of natural resources, climate change adaptation, governance and institutions.	Dickinson Students Colleagues at other institutions Colleagues at other institutions outside the U.S. Colleagues in other disciplines	
Blyth	Jen	Music		I frequently perform recitals with a climate change or sustainability bent.	I need to travel frequently.	Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions Colleagues in other disciplines	

er in Murakami Haruki's after the quake." Ecocriticism and Japan, Hisaaki Wake 2018): 139-155.

Last Name	First Name	Department	Other Department Affiliations	Description of Scholarly Work	Sustainability Challenges Addressed	Engagement with Others	
Boback	Scott	Biology		I have a few projects directly related to impacts of climate change and one project focusing on integration of ecological roles of native organisms on agricultural systems. I study the basic biology of rattlesnakes at a high elevation site in northwestern Colorado. This population exhibits a remarkably short active season spending a long time inactive period in their dens (perhaps as long as 8 months). The combination of these environmental constraints whereby increases in global temperature increases could significantly impact the energy budget of individuals. Additionally I study how turtles, with temperature dependent sex determination, may or may not mitigate the effects of global warming by selecting different locations for their nests. I also investigate the role of a native insectivore (American Toad) as a conservation biological control of insect pests in an organic agroecosystem.	Global warming Sustainable food production through organic agriculture Invasive species	Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions Colleagues in other disciplines	2019 Boback, S.M., Nafus, M.G., radiotelemetry reveals sources of 2019 Nafus, M.G., Yackel Adams, morphological traits that predict an invasive snake. In Press at Glo 2018 Goetz, S. M., Guyer, C., Bob trap for native gartersnakes. Bio https://link.springer.com/article 2016 Boback, S.M., Snow, R.W., H three white-tailed deer (Odocoild in Florida. BioInvasions Records. 2014 Russell, J.L., Wingert, E., Bo elegans (Wied, 1838), establishe 2):34-41.
Bruno	Maria	Anthropology and Archaeology		I examine how humans interact with their environments as they develop more intensive agricultural systems in the Lake Titicaca Basin of the Andes. I study how modern-day indigenous farmers sustain their subsistence food systems, particularly how they interact with plant species, and use this to better understand processes in the past. While I study plant remains from archaeological sites, I work on an interdisciplinary team that has also included paleoclimatic research in the lake basin. We attempt to examine the relationships between climate change and human activities in the region.	farmers in the present and past contribute to larger-scale sustainable farming systems. How have human societies in the past responded to and developed systems of production that help face consequences of climate	Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions Colleagues at other institutions outside the U.S. Colleagues in other disciplines	2013 National Geographic Societ paleoclimatological fieldwork in I California, Berkeley), Sherilyn Fri 2013 Dickinson College Center fo summer fieldwork in Bolivia and Weide, D. Marie, Sherilyn C. Fritz Wout Salenbien 2017 A ~6000-year diatom record Titicaca, (Peru/Bolivia). Quaterna 2014 Beyond Raised Fields: Explo Lake Titicaca Basin of Bolivia. Am 2011 Farmers' Experience and Kr Taraco Peninsula, Bolivia. In Sust Edited by Naomi Miller, Katherin Conference Series, University of
Castellanos Gonella	Carolina	Portuguese and Spanish	Caribbean Studies, Africana Studies	My work focuses on gender inequalities, sexism, transphobia, homophobia, racism, and representation of women and minorities	Gender equality Inequality	Dickinson Students Dickinson Faculty and Staff	 1. "Cassandra Rios e a lésbica ger 2019, pp. 230-251. 2. "The Most Desired Positions: E Latin American Research Review.

G., Yackel Adams, A.A., and R.N. Reed. Use of visual surveys and so f detection bias for a cryptic snake at low densities. In Press at Ecosphere.

ns, A.A., Boback, S.M., Siers, S.R., and R.N. Reed. Behavioral and ict susceptibility to management also reflect post-treatment frequency shifts in Global Ecology and Conservation.

oback, S.M. and Romagosa, C.M. Toxic, invasive treefrog creates evolutionary iological Invasions 20(2): 519-531. Doi: .le/10.1007/s10530-017-1554-6

., Hsu, T., Peurach, S.C., Dove, C.J., and R.N. Reed. Supersize me: Remains of pileus virginianus) in an invasive Burmese python (Python molurus bivittatus) ds. 5:197-203.

Boback, S.M. and Meshaka, W.E. Jr. The Red-eared slider, Trachemys scripta hed in Pennsylvania. Bulletin of the Maryland Herpetological Society. 50(1-

iety Scientific Research Grant #9299-13 for archaeological and in Bolivia and laboratory analyses, Co-PIs: Christine A. Hastorf (University of Fritz (University of Nebraska), and Paul Baker (Duke University) \$19,630

for Sustainability Education Student Faculty Research Grant #SFR132-NASA for nd archaeobotany laboratory analysis \$10,375 ritz, Christine A. Hastorf, Maria C. Bruno, Paul A. Baker, Stephane Guedron, and

ord of mid-to-late Holocene fluctuations in the level of Lago Wiñaymarca, Lake rnary Research 88(2):179-192. Bruno, Maria C.

ploring Farming Practices and Processes of Agricultural Change in the Ancient American Anthropologist 116(1):1-16. Bruno, Maria C.

Knowledge: Utilizing Soil Diversity to Overcome Rainfall Variability on the ustainable Lifeways: Cultural Persistence in an Ever-changing Environment. rine Moore, and Kathleen Ryan. pp. 210-243. Penn Museum International of Pennsylvania Press, Philadelphia.

enuína em Eu sou uma lésbica." Journal of Lusophone Studies, vol. 4, no. 1,

s: Brazilian Female Traffickers in Inferno and Falcão: mulheres e o tráfico." ew, vol. 52, no. 3, 2017, pp. 405-17.

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Cozort	Daniel	Religion		I am at the beginning of a process to identify readings for a new sourcebook on Buddhist perspective on environment and sustainability.		Colleagues at other institutions Colleagues in other disciplines	
Davenny	ward	Art and Art History		It's difficult for me to define my artwork as 'explicitly' addressing sustainability, though mine has an express relationship to, and is sourced in, the natural world. In terms of imagery, subject matter, and conceptual basis, it addresses events in the landscape that portray collisions of pollutants, weather, and air. Rather than verbal conclusions, the art seeks to project an experience, and though describing only a moment, implies a narrative in progress. It is an attempt to offer personal and negotiable questions to an individual. I would say that though sustainability is not a focus or reason that I do my research, I view it as part of my practice, in that I consider the issue in every material choice. Issues of sustainability become important to the outcome of any project, and play a part in my evaluation of success.		Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions Colleagues at other institutions outside the U.S. Colleagues in other disciplines	I have made it a point to learn ab have grown, harvested, and proc of this research with students an recycling facility within Dickinson
Deng	Fang	East Asia Studies		My college and I wrote a Chinese text- book named "home with kids", it is very famous like "Friends" in America.As atvirul-audio-oral textbook, it creat a real Chinese learing environment to motivate the students to learn Chinese.	The challenges is how to select the best part from the TV play and how to take full advantage of it.	-	Liu, L and Deng, F. Chinese Audio Corporation, Dec. 2008- Jan. 201 Liu, L. and Deng, F. Audiovisual a Volume 3, 2018 Liu, L. and Deng, F. Audio-visual T Research, Volume 2. 2017
Douglas	Maggie	Environmental Studies	Food Studies	Most of my scholarly work relates in one way or another to the sustainability of food production. For example, I study how current patterns of pesticide use affect pollinators and other beneficial insects that are essential to long-term agricultural productivity. I also study how soil conservation practices influence pest management, which has implications for the ability of farmers to implement those practices.		Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions Colleagues at other institutions outside the U.S. Colleagues in other disciplines	

about and experiment with plant dyes and natural pigments. In that vein, I rocessed inks, paints, dyes, tools and image surfaces. I have shared products and colleagues. I hope in the near future to help create a reusable-material son.

dio-visual-oral Course -"Home with kids" (vol. 1-3), Beijing World Publishing 010

l and Audiovisual Textbooks Based on Real-Life Materials, TSCOL Studies,

al Teaching in the Era of Picture Reading, International Chinese Teaching and

Last Name	First Name	Department	Other Department Affiliations	Description of Scholarly Work	Sustainability Challenges Addressed	Engagement with Others	
Edwards	Ben	Earth Sciences		Much of it investigates and documents both long term and short term climate change but documenting the past extent of glaciers and ice sheets, as well as some work on present day glaciers and how they are responding to climate change. At present I am working with a student to also develop methods to for using UAVs to monitor farmland restoration programs (CREP and wetlands restoration), for modeling terrain to investigate rattlesnake den locations, and for better understanding hazards from the production of lahars during eruptions of ice- and snow-covered volcanoes in Chile.	climate change, terrestrial ecosystem conservation, health and well-being, resilient infrastructure	Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions Colleagues at other institutions outside the U.S. Colleagues in other disciplines	 * denotes co-authors who were *Kochtitzky, W.H., Edwards, B.R. glacier change rates at Nevado C https://doi.org/10.1017/jog.201 Belousov, A., Belousova, M., Edw dynamics of the 2012-13 basaltic doi:10.1016/j.jvolgeores.2015.04 Smellie, J.L., Edwards, B.R. 2016. implications. Cambridge Univers Waitt, R, Edwards, BR, Fountain, J.J., Kääb, A. (Eds) The High-Mou Kargel, J., Leonard, G., Wheate, H changing glaciers near Hoodoo N Measurements from Space, Sprin Hickson, CJ, Edwards, BR (2001) Bulletin 548. Boback, S.M., Edwards, B.R., Hay viridis) at a high elevation site in *Fisher, J.A., Kochtitzky, W.H., Edw
Eng	Rachel	Art and Art History		Many of the artworks I create consider the impact of the materials that I am using and where they come from. By using both found and human made materials, I question the loss of biodiversity due to our consumption and production. It is important for my artwork to be open for the audience to generate their own questions and reflect on their relationship with the materials they see. In the project "re-orienting" I sourced all the plastic bags from recycle bins a big box stores. The piece questions our use of single use items and the lifespan that they have. In the exhibition "Ball snake ball" the projects use clay in its unfired stage, which speaks to the cyclical nature of the material. That it can be recycled infinitely as long as it remains unfired, as it is dug from the ground.		Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions Colleagues in other disciplines	2019 re-orienting (Solo Exhibition https://www.racheljeng.com/re- 2018 even out (Solo Exhibition), https://www.racheljeng.com/ev https://www.racheljeng.com/se- 2018 Ball Snake Ball (Group Exh CT https://www.racheljeng.com,

re DC undergraduate students during part/all of the work

.R., Enderlin, E.M., Moreno, J., Marinque, N. 2018. Improved estimates of O Corupuna Ice Cap, Peru. Journal of Glaciology, v. 64, 175-84. 018.2

dwards, B.R., Volynets, A., Melnikov, D. 2015. Overview of the precusors and ltic fissure eruption of Tolbachik volcano, Kamchatka, Russia. JVGR. .04.009

16. Glaciovolcanism on Earth and Mars: products, processes and paleoclimate ersity Press: Cambridge, ISBN 9781107037397, 490 p.

in, A. 2015. Chapter 15. Ice-clad Volcanoes, In Huggel, C., Carey, M., Clague, ountain Cryosphere, Cambridge Press, 272-294.

e, R., Edwards, B. 2014. Chapter 15: ASTER and SEM change assessment of Mountain, British Columbia, Canada; in Kargel et al. (eds.) Global Land Ice pringer Praxis, p. 353-373.

1) Volcanoes and volcanic hazards in Canada, Geological Survey of Canada

layes, J.L. 2019. Biogeology of a population of Prairie rattlesnakes (Crotalus in northwestern Colorado. Biology of Pitvipers Conference, Rodeo, NM.

Edwards, B.R., *Irving, W., Russell, J.K. 2018. Heat Wave Causes Major Melting

tion), Schmucker Gallery, Gettysburg College, Gettysburg, PA re-orienting.html

n), Woskob Family Gallery, State College, PA even-out.html seek--search.html

xhibition), Curated by Roberto Lugo and Sarah Fritchey, Artspace, New Haven, m/growth-iv--rehydration-ii.html

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Fatehin	Sohani	Economics		Two of my research papers "The Crowding out Effect of Out-of-pocket Medication Expenses of Two Major Non- Communicable Diseases on Household Consumption in Pakistan", and "Consumption Displacement in households with Non-Communicable Diseases in Bangladesh" are related to human health.		Colleagues at other institutions	
Harper- McCombs	Sherry	Theatre and Dance		Theatre artists have always been interested in reuse as a way to save money but in my art, I attempt to reuse not only as an economic choice but also in order to function in a more environmentally sustainable way.	Clothing reuse as a way to stop fueling the fast fashion industry. Using more natural products rather than thermoplastics in order to limit plastic use. Making more environmentally friendly choices of chemicals for painting, dyeing, and cleaning to limit environmental footprint. Using recycled plastics, metals, and other items as construction materials for the stage. Creating projects to use left over fabrics in creative and useful ways.		 United States Institute of Theatree Session. "Piecing Together a Sustainable Se United States Institute of Theatree Session. "Pulled Leather Masks over Plastee Southeastern Theatre Conference "Trashy Transformation: Upcycling" Southeastern Theatre Conference "Leather Up! Costume and craft w Southeastern Theatre Conference "Southeastern Theatre Conference "Leather Up! Costume and craft w
Hayes	Jorden	Earth Sciences		While my scientific work does not explicitly focus on sustainability, there are implications for thinking about a sustainable future. My work focuses on interactions between rock, water, atmosphere, and biota at Earth's surface that help make our planet habitable. One of the major questions is how the near- surface of Earth will respond to a changing climate and how important resources in this zone (e.g., water) will change as well.		Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions Colleagues at other institutions outside the U.S. Colleagues in other disciplines	 1.Hayes, J.L., Riebe, C.S., Holbrook, weathered rock: Where volumetric 10.1126/sciadv.aao0834 2.Flinchum, B.A., Holbrook, W.S., G the water holding capacity of the o doi:10.1002/hyp.13260. 3.Flinchum, B.A., Holbrook, W.S., R M.C., 2018. Critical zone structure refraction data, Journal of Geophy doi:10.1029/2017JF004280 4.Holbrook, W. S., Riebe, C. S., Elw. Dosseto, A., Hartsough, P. C. and F water storage potential in the Sour Landforms, doi: 10.1002/esp.3502

tre Technology Conference, March 2018 Costume Commission Juried Poster

e Sewing Project for Beginning Stitchers".

tre Technology Conference, March 2017 Costume Commission Juried Poster

aster Forms".

nce 2017 Workshop. cling Unwanted Costumes and Fabrics", March 2017.

nce 2016 Workshop. ft work with leather", March 2016

nce 2015 Workshop. king with metal in costuming, March 2015.

bok, W.S., Flinchum, B.A., and Hartsough, P.C., 2019. Porosity production in etric strain dominates over chemical mass loss. Science Advances, 5, doi:

S., Grana, D., Parsekian, A.D., Carr, B.J., Hayes, J.L., Jiao, J., 2018. Estimating ne critical zone using geophysics, Hydrological Processes, 32,

S., Rempe, D., Moon, S., Riebe, C.S., Carr, B.J., Hayes, J.L., St. Clair, J., Peters, ure under a granite ridge inferred from drilling and three-dimensional seismic physical Research: Earth Surface, 123(6), 1317-1343,

Elwaseif, M., Hayes, J. L., Harry, D. L., Basler-Reeder, K., Malazian, A., Id Hopmans, J. W., 2014. Geophysical constraints on deep weathering and Gouthern Sierra Critical Zone Observatory. Earth Surface Processes and 502

Last Name	First Name	Department	Other Department Affiliations	Description of Scholarly Work	Sustainability Challenges Addressed	Engagement with Others	
Helweg-Larsen	Marie	Psychology		My research is on Health and Well-Being and Inequality which are both on the list of sustainability challenges.	I research stigmatization and identity and how reminding people of their devalued status can help or hinder smokers in quitting. The issue of smoking cessation is related both to the sustainability challenge of Health and Well-Being (tobacco smoking is the biggest preventable cause of mortality and morbidity) as well as Inequality (smoking is much more common among the poor).	Colleagues at other institutions Colleagues at other institutions outside the U.S. Colleagues in other disciplines	Helweg-Larsen, M., *Pyakuryal, smokers quit. Stigma and Health Helweg-Larsen, M., *Sorgen, L., the stigma-induced identity thre
Hendrickson	Burleigh	French and Francophone Studies	Middle East Studies	My work addresses political sustainability in terms of transitional democracies and failed dictatorship/empires.	Retribution and national healing post-dictatorship. New governments face challenges sustaining democratization programs following political and social oppression.	Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions Colleagues at other institutions outside the U.S. Colleagues in other disciplines	2016"Student Activism and the étudiants en Afrique francophor de la Sorbonne), 233-247. 2017 "From the Archives to the Historical Studies 40:2, 319-342
Jacob	Jacob	International Studies	Political Science	I am presently working on developing a documentary mini-series with a Voice of America journalist - Linord Moudou. The miniseries will access how select countries in sub-Saharan Africa are working towards meeting the SDGs and the challenges they are facing. This work is at a very preliminary stage. I have worked on access to education for displaced persons and girls at the margins in northeast Nigeria. A forthcoming book - 'Transactional Radio Instruction: Improving Educational Outcomes for Children in Conflict Zones' co-authored with Dr. Margee Ensign will be released in March 2020 by Palgrave Macmillan. I oversee the Dickinson College Bridge program which seeks to provide access to higher education for young people from war-torn and disaster affected societies. We currently have four Nigerian women who escaped Boko Haram's captivity on the program. I have previously worked on public access		Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions Colleagues at other institutions outside the U.S. Colleagues in other disciplines	Jacob, J.U., Ensign M. (2020). Tra in Conflict Zones, Palgrave Macr Pape, Utz Johann; Sharma, Amb Jacob; Appler, Felix Konstantin; Benjamin; Iqbal, Syedah Aroob. Volume B : Country Case Studies http://documents.worldbank.or Jacob J.U. (2019). 'Communitaria Journalists" Covering the Boko H Conflicts, and Peacebuilding. Pa
Jin	Dengjian	International Business and Management		I wrote a paper on the relationship between human nature, technology, and sustainability	Human nature is not evolved to solve the long-term challenge of sustainability and the fatal allure of technology	Dickinson Students Colleagues at other institutions Colleagues at other institutions outside the U.S.	

al, M., and Pisinger, C. (in press). Reminders of a stigmatized status might help olth.

L., and Pisinger, C. (2019). Does it help smokers if we stigmatize them?: A test of nreat model among U.S. and Danish smokers. Social Cognition, 3, 294-313.

ne Birth of the Tunisian Human Rights Movement, 1968-1978," in Mouvements none, des indépendances à nos jours, ed. by Françoise Blum et al. (Publications

ne Streets: Listening to the Global 1960s in the Former French Empire," French 42.

Transactional Radio Instruction: Improving Educational Outcomes for Children acmillan, Forthcoming.

nbika; Nezam, Taies; Petrini, Benjamin; Ebrahim, Menaal Fatima; Udo-Udo, n; Woodhouse, Andrea Fitri; Phipps-Ebeler, Verena; Meckelburg, Alexander b. (2019). Using Micro-Data to Inform Durable Solutions for IDPs (Vol. 2) : lies (English). Washington, D.C. : World Bank Group. .org/curated/en/968141557465726421/Volume-B-Country-Case-Studies

arianism, Ethics and the Burden of Journalistic Objectivity: Reflections of "Peace o Haram Insurgency'. In: Shaw I., Selvarajah S. (eds) Reporting Human Rights, Palgrave Macmillan, Cham.

Last Name	First Name	Department	Other Department Affiliations	Description of Scholarly Work	Sustainability Challenges Addressed	Engagement with Others	
Katunich	John	Writing Program		My recently completed dissertation in Curriculum and Instruction examined the complicity of English language teaching in current sustainability crises. In addition, I am currently co-editing a book on new perspectives for teaching English in the Anthropocene, in which raise the prospects for reclaiming and revitalizing the "commons" as a guiding principle for teaching and learning. I'm also applying this lens to broader discussion in composition studies around complicity and the commons.	truth moment we find ourselves in,	Dickinson Faculty and Staff	Goulah, J, and Katunich, J. (eds.) into the Anthropocene. London: Katunich, J. (2019) Convivial Eng "language-as-commons" orienta Katunich, J. (2019). Promoting Su In Redefining Teaching Compete (eds.) London: Palgrave. Katunich, J. (2018) "Revitalizing t English language teacher educat Association, Annual Conference, Katunich, J. (2018) "Integrating E TESOL Annual Conference, Chica Katunich, J. (2017) "Considering Organizer and Presenter, Colloq 2017. Cody, J., Katunich, J, and Kissling Grapple with Real, Local Issues,"
Кеу	Marcus	Earth Sciences	Environmental Studies	My research involves I quantifying climate change.	Analytical methdology	Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions Colleagues at other institutions outside the U.S. Colleagues in other disciplines	Smith, A. M., M. M. Key, Jr., and growth measured using calcein s Key, M. M., Jr., R. K. Rossi, A. M. skeletal carbonate validate annu Snares Platform, New Zealand. B https://doi.org/10.5343/bms.202

s.) (2020) Sustainability and TESOL: New Perspectives on Language Teaching n: Bloomsbury Academic.

nglish language teaching amid the crisis of sustainability: Reclaiming a tation in English language teaching, Dissertation, Penn State University.

Sustainability Literacy Through Immersion Abroad Experiences for Teachers. tence through Immersive Programs (pp. 235-257). E. Smolcic and D. Martin

g the linguistic commons: The integration of a commons-based pedagogy into ation," Individual Paper Presentation, American Educational Research ce, New York, April 2018.

g Eco-pedagogy and Sustainability Literacy into ESL Teacher Preparation", cago, March 2018.

ng the Role of Applied Linguistics in the Sustainability Crises", Colloquium oquium at American Association of Applied Linguistics, Portland, OR, March 20,

ng, M. (2016) "Problems in our Backyard: What Happens When Students s," Green Teacher, 110, Summer, 2016.

nd A. C. L. Wood. 2019 in press. Culturing large erect shelf bryozoans: skeletal n staining in culture. Australasian Palaeontological Memoirs, 52: ??-??.

M. Smith, S. K. Hageman, and W. P. Patterson. 2018. Stable isotope profiles of nually-produced growth checks in the bryozoan Melicerita chathamensis from
Bulletin of Marine Science. 94 (4): 1447-1464.
2017.1166.

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Kingston	Sharon	Psychology	Health Studies	Some of my research is related to health	access to health care, effects of	Dickinson Students	#Kingston, S., #Bruzzese, J-M., B
				disparities among low-income African	living in low-income urban	Colleagues at other institutions	factors associated with undiagno
				American and Latinx populations and	neighborhoods on mental health	Colleagues in other disciplines	10.1007/s11524-018-00340-2
				some is related to the effects of living in	and behavioral outcomes such as		
				low-income urban areas on human	substance use, involvement in		Bruzzese J-M, Kingston S, Zhao Y
				development.	criminal activity.		the decision of urban adolescen
							Health, 59, 543-548. DOI: 10.101
							Kingston, S. and Rose, A.(2015).
							American Journal of Community
							Kingston, S. (2013). Economic ad
							perceived social support matter
							10.1007/s10464013-9601-7
							Kingston, S., Huang, K.Y., Calzada
							in education as a moderator of f
							young children. Journal of Comn
							Bruzzese, J.M., Kingston, S., Shea
							preliminary outcomes of a scho
							undiagnosed asthma. Patient Ec
							Miller Brotman, L., Calzada, E., Y
							Schwab, A., and Petkova, E. (201
							problems in school among ethni
							Development,82(1): 258–276.
Kongar	Ebru	Economics		I am currently co-editing Handbook of	Work-life balance (lack of),	Colleagues in other disciplines	
				Feminist Economics, which is a 50 chapter			
				volume that uses social provisioning	(such as the Great Recession),		
					overwork, time poverty. Please		
				being of women, men, girls and boys at	also see above.		
				the center of feminist economics inquiry.			
				Several chapters are also explicitly about			

Bruzelius, E., Falletta, K.A., Poghosyan, L. (2019). Individual and neighborhood prosed asthma among urban adolescents. Journal of Urban Health. DOI:

b Y, DiMeglio J, Cespedes A, George M. (2016). Psychological factors influencing ents with undiagnosed asthma to obtain medical care. Journal of Adolescent 016/j.jadohealth.2016.06.010

). Do the effects of adolescent employment differ by neighborhood context? ty Psychology, 55, 37-45. DOI: 10.1007/s10464-014-9690-y

adversity and depressive symptoms in parents: Do marital status and er? American Journal of Community Psychology, 52, 359-366. DOI:

ada, E., Dawson-McClure, S. and Miller Brotman, L. (2013). Parent involvement f family and neighborhood socioeconomic context on school readiness among nmunity Psychology, 41(3), 265-276. DOI: 10.1002/jcop.21528.

neares, B.J., Cespedes, A., Sadeghi, H. and Evans, D. (2011). Feasibility and nool-based approach to help inner-city, ethnic minority adolescents with Education and Counseling, 85, 290-294.[PMCID: PMC3029508]

, Y., Huang, K., Kingston, S., Dawson-McClure, S., Kamboukos, D., Rosenfelt, A., 011). Promoting effective parenting practices and preventing child behavior nically diverse families from underserved, urban communities. Child

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Koss	Lorelei	Mathematics and Computer Science		My research has focused on applications of differential equations to issues in sustainability and their application in the classroom. I have published an article on developing a semester-long case study in a differential equations course to environmental and sustainability issues in the history of Easter Island. Topics investigated include the date of arrival of early settlers, the impact they had on natural resources through population growth as well as through the introduction of non-native species, and the effect of European diseases on the population. A second paper surveyed recent developments in research using differential equation models to understand the interactions between people, rats, and forest stock on Easter Island. Recently, I have also published a survey article examining how a differential equation model called an SIR model has been extended beyond investigations of biologically infectious diseases to other topics that contribute to social inequality and environmental	population growth, spread of disease, sustainable agriculture, social inequality, the effects of non- native species		L. Koss, SIR Models: Differential Article 6. https://scholarship.cla L. Koss, Ordinary differential equ relationship between humans, tr L. Koss, Sustainability in a differe Journal of Mathematical Educati
Leary	Neil	Sustainability		concerns. For example, these models My research examines cllimate change risks, vulnerability and resilience; nitrogen footprints; carbon fees and permit trading	Climate change; hunger; poverty; sustainable communities.	Dickinson Students Colleagues at other institutions Colleagues at other institutions outside the U.S. Colleagues in other disciplines	 Intergovernmental Panel on Cli in Climate Change 2014: Impacts Assessment Report of the IPCC. K. Averyt, B. Hewitson, N. Leary Regional Climate Change and Re N. Leary, C. Conde, J. Kulkarni, A Earthscan, London. N. Leary, J. Adejwon, V. Barros, Adaptation. Earthscan, London. Intergovernmental Panel on Cli Assessment of Adaptation Practi Adaptation and Vulnerability, W J. McCarthy, O. Canziani, N. Lea Adaptation and Vulnerability, Co Intergovernmental Panel on Clin USA. R. Pichs, R. Swart, N. Leary and Intergovernmental Panel on Clin

al equations that support the common good, CODEE (2019), 12, laremont.edu/codee/vol12/iss1/6/pdf.

quations and Easter Island: a survey of recent research developments on the , trees, and rats. European Journal of Mathematics, 5, No. 3 (2019), 929–936.

erential equations course: a case study of Easter Island, International ation in Science and Technology, 42, Issue 4 (2011), 545 - 553.

Climate Change (2014). N. Leary and P. Dube, review editors, Chapter 22, Africa, cts, Adaptation and Vulnerability, Working Group II volume of the Fifth

ary, and J. Marengo, guest editors (2009), CR Special 20: Integrating Analysis of Response Options, Climate Research 40, December 10, 2009. i, A. Nyong and J. Pulhin, editors (2008), Climate Change and Vulnerability.

s, I. Burton, J. Kulkarni and R. Lasco, editors (2008), Climate Change and

Climate Change (2007). N. Leary and A. Magalhães, review editors, Chapter 17, ctices, Options, Constraints and Capacity, in Climate Change 2007: Impacts, Working Group II volume of the Fourth Assessment Report of the IPCC. eary, D. Dokken, and K. White, editors (2001), Climate Change 2001: Impacts, Contribution of Working Group II to the Third Assessment Report of the limate Change, Cambridge University Press, Cambridge, UK and New York,

nd F. Ormond, editors (2001), Development, Sustainability and Equity, limate Change, Geneva, Switzerland.

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liu	lixin	East Asia Studies		I had a MOOC named "Chinese for HSK2".In that course,I designed 23 stiuational dialogues training the leaners to study Chinese with "authentic materials" ,not only focusing on the grammars and vocabulary as a traditional way.Fllowing the "quality education" concept,the course is not only helping the students passing the test,but also make them enjoying Chinese speaking and reading.		Colleagues at other institutions outside the U.S.	https://www.coursera.org/learn, Coursera course Chinese for HSI
Loeffler	Carol	Biology		I study the population colony of rare plant species, and in some cases am actively involved in restoring declining populations, to help maintain biodiversity. My students and I also study the effects of white-tailed deer on forest plant diversity, and we study the population ecology of hemlocks and an invasive insect from Japan, the hemlock woolly adelgid, which is causing widespread decline of this ecologically important forest tree.	that use the plants.	Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions	
Maher	Chauncey	Philosophy		I'm writing a book on a person Martin Luther King calls "the white moderate." King suggests that this person is a "great stumbling block" to racial equality. I critically evaluate that claim as a proposed explanation for the persistence of racial inequality, including various forms of material inequality. Assuming that material inequality and injustice are each a "major sustainability challenge," I am trying to clarify and evaluate our best explanations for one "major sustainability challenge"		Dickinson Students Dickinson Faculty and Staff Colleagues in other disciplines	

rn/hsk-2 HSK 2Total Learners 6,879 Active Learners (All Time) 4,951

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Martin	James	Music		I have completed two projects this year. One was in tandem with Jennifer Blyth regarding the significance of water to our ecologic and economic cycles. Specifically, the Chansons Madecasses addressed the use of the ocean for colonialism. Rain in the Emily Dickinson song is an element of catharsis. Similarly, Walt Whitman in 1989 shows the river as a loving usher to death.The Boatmen shows the river as a means of sustaining the economy, and At the River is a spiritual conduit toward the Divine. The second project was entitled Songs of Ourselves. It addressed issues of social injustice towards African-Americans, LGBTQ+ and women. The world premiere title piece specifically tackled issues of racal discrimination, race and gender bias, poverty, and violence.	See above.	Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions Colleagues at other institutions outside the U.S. Colleagues in other disciplines	The Weary Blues, Langston Hughes Cabaret Songs, William Bolcom Songs of Ourselves, Amit Majmuda I Hear America Singing, Walt Whitr
McGaughey	Sarah	German		I address the issue of environmentalism and identity in an article on the 1936 novel The Spell. The article is the start of work that looks at the issues of human relationships to the environment and nature. I am also working on a project on household gardening in the 1920s.	One of the major issues I address is the politicization of environmental preservation on all parts of the political spectrum and the philosophical questions about whether humans have a different role to play in nature than animals, for instance.	Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions Colleagues at other institutions outside the U.S.	To be published: "An Experiment ir Verzauberung" In: Broch und "Brer University of Innsbruck)

ughes

mudar Whitman

ent in Zivilisationskritik: Carl Dallago and Broch's Vision of Nature in Die "Brenner", "Brenner" und Broch. (forthcoming with Brenner Archive of

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Nichols	Ashton	Environmental Studies	English	My most recent book 2011/2012 pbk "Beyond Romantic Ecocriticism: Toward Urbanatural Roosting"addresses sustainability directly throughout its argument. See reviews: "At the heart of the book is a vision, at once intellectual, spiritual, and pragmatic, of humans as fundamentally part of the natural world, together with a belief that to establish an "ecoculture" we must embrace that belonging. "Beyond Romantic Ecocriticism's" holistic vision of ecology as a single integrated system, combining the human and non-human alike, shares much in this respect with Timothy Morton's recent writings, "Ecology Without Nature" and "The Ecological Thought." Nichols focuses, however, not so much on the problem of 'nature' as a category as on human kinship within nature: a kinship which must ultimately define our meanings, our values, and our forms of life. To 'roost' in this sense becomes a keyword for living sustainably in and from environment, without damaging that environment. "Beyond Romantic Ecocriticism" is in the end a	See reviews of my most recent book (above)	Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions Colleagues at other institutions outside the U.S.	A Romantic Natural History: 175 literature and natural history in recognized for excellence by the New York Times ("Circuits"). See "After the Hawk," "That Hum an "Songbirds at Creekside," "Deat "Urbanature–The Roost and Urt Thoreau Farm Birthplace, Conco http://thoreaufarm.org/?s=Ashi ARTICLES and ESSAYS: "'Over the Sea to Skye': Dr. Johr Romantic Writing on the Trail, T "Henry David Builds His Hut," in President Jimmy Carter. Ed. Tho "Ecocriticism and Environmenta Guide to Pedagogy. Ed. Jen Cadv 2017: 315-329. "Home to Roost: Generations Er "'Humanist Joy': Urbanature in t Pickard. The Wordsworth Circle
Pawley	Emily	History	Food Studies	My past work addresses sustainability in three main ways. First, it examines how agricultural markets and agricultural capitalism lie at the root of some of the key concepts of sustainability (e.g. concepts of nutritional cycles, the early mapping of bioregions, the study of interrelated systems of organisms, the study of soil degradation) Second, it studies the rise of the systems that pose some of our most significant sustainability challenges (e.g. the development of the botanical networks that spread our invasive species, the rise in unsustainable fertilizer markets, the development of long range systems of food trade) Finally it challenges some of the assumptions undergirding common sustainable critiques of agriculture, particularly the idea of a generally beneficent past of small mixed farms. My more recent work is moving in two directionsI have joined a larger group of	Introduced species, fertilizer pollution, destructive agricultural markets, genetic diversity loss, the rise and dominance of meat landscapes, and the emergence of CAFOs. Increasingly, in newer work, policy failures and climate change.	Colleagues at other institutions Colleagues at other institutions outside the U.S. Colleagues in other disciplines	Book: The Nature of the Future: University of Chicago Press (Apr "Feeding Desire: Generative env 1700-1750" Osiris 33, no. 1 (201 "Cataloging Nature: Standardizin 90, no. 3 (2016): 405-429. As a team member in the Enviro "Remarks by President Trump o Envrironmental Data and Gover https://envirodatagov.org/trum

750-1859: A hypertext project designed to survey the relationship between n the century before Darwin's On the Origin of Species. The site has been he BBC ("Education Web"), Romantic Circles (University of Maryland) and The ee: http://www.dickinson.edu/~nicholsa/Romnat/romnat1.htm

and Buzz," "Fantastic Beauty in the Front Yard," "Raptors and Riparians," ath from Above–Life Everywhere," "Crazy Cardinal," "Snow Baths," Irbanatural Roosting." The Roost: Thoreau Farm Blog. Invited blog-posts at cord, Massachusetts. February, 2014-present: hton+Nichols

hnson and Wordsworth on Dun Cann," Session series, Walking the Walk: The Wordsworth Circle (TWC), XLIX 2018: forthcoming

in What Would Henry Do? Essays for the 21st Century–Feature Essay by noreau Farm Trust. Concord: Thoreau Farm Trust, Inc., 2017: 105-09.

tal Approaches," chapter in Teaching Victorian Literature in the 21st Century: A dwallader and Laurence Mazzeno. New York and London: Palgrave Macmillan,

Enjoy a Mountaintop Cabin," Cabin Living (June 2017): 19

n the Poetry of Seamus Heaney," Festschrift for Robert Langbaum, Ed. Michael le (TWC) XLVII:2, 2016: 100-04.

e: Agriculture, Science, and Capitalism in the Antebellum North, Forthcoming, pril, 2020).

nvironments, meat markets, and managing sheep intercourse in Great Britain, D18).

zing Fruit Varieties in the United States, 1800–1860" Business History Review

ronmental Historians Action Collaborative on America's Environmental Leadership—Annotated" ernnance Initiative, released: November 5th 2019 mp-on-environmental-leadership-annotated/

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Pfister	Hans	Physics and Astronomy	Environmental Science	My research pertains directly to renewable energies and energy efficiency. In particular, I design, build, and test Solar Air Heaters (SAHs), solar collectors that take solar energy and turn it into thermal energy that can be used to heat buildings, houses, dry agricultural products, or desalinate water. One of the SAH's that I invented has a solar-to- thermal conversion efficiency of over 80%.	I have invented multiple SAHs I have also invented a sun-tracking, concentrating solar collector to be used in developing countries. One of my inventions that pertains to energy efficiency, is a device, which stores thermal energy in a phase change material (PCM)	Colleagues at other institutions Colleagues in other disciplines	 "A Novel Gridded Solar Air Heat Ralston '15, and Sung Woo Kim ' Accepted for publication July 11, Renewable Energy and Energy E Storing Thermal Energy in a Box, Renewable Energy and Energy E Conversion of Solar Energy into ' "Design and Build your own Sola members of SWEP, the Society o Pfister, Dickinson College, July 10 Renewable Energy and Energy E Economics of CFL and LED Lightin "Investigation of the Absorber E February 23, 2018. Amount awa CSE Grant No. CD183: Student-F Title: "Construction and Perform 26, 2017 "Design, Construction and Analy Flow," Date Grant Awarded: Ma 2014
Pires	Anthony	Biology		Increasing atmospheric carbon dioxide from fossil fuel combustion causes acidification of the world's oceans. I work on impacts of ocean acidification on the development and behavior of marine organisms. Some species are extremely sensitive to acidification, while others are quite resilient. Acidification thus has the potential to create "winners" and "losers", and thus to change the composition of marine ecosystems, with consequences for the services that those ecosystems provide to human communities.		Dickinson Students Colleagues at other institutions Colleagues in other disciplines	Bogan, S.N., J.B. McMahon, J.A. F gastropod larvae and juveniles to authors were Dickinson undergra Harbor Labs.) Pechenik, J.A., A. Pires, J. Trudel, acidification on growth, onset of slippershell snail, Crepidula forni who worked in my lab at the Uni Kriefall, N.G., J.A. Pechenik, A. Pin fornicata larvae in the face of sev
Roman	Hanna	French and Francophone Studies	Medieval and Early Modern Studies	My new research is in the environmental humanities: I am interested in understanding how people have perceived and written about the environment, nature, and their relationship to this, in particular in the Enlightenment. I want to trace which ideas have lasted and how they have changed over time.	Human relationship and responsibility to nature; history of sustainable practices; history of climate and related theories of race	Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions Colleagues at other institutions outside the U.S.	 I am currently teaching a senior course was developed with the h listed with Environmental Studies I organized an international con about religion, geology, and envi I have presented my work from I have publishedor have forthe

ater and an Investigation of its Conversion Efficiency," Hans Pfister, Tyler n '13. Submitted to the peer-reviewed journal Solar Energy on Feb. 2nd, 2015. L1, 2016. Published July 28, 2016.

Efficiency Sustainability Workshop Series, "Increasing Energy Efficiency by ox," Hans Pfister, Dickinson College, Nov18, 2017.

Efficiency Sustainability Workshop Series, "The Solar Air Heater – Direct o Thermal Energy," Hans Pfister, Dickinson College, Oct. 28, 2017.

blar Air Heater," a renewable energy and energy efficiency workshop for of Women Environmental Professionals, and their family members, Hans 16, 2016.

Efficiency Sustainability Workshop Series, Session III, "The Physics and ting," Hans Pfister, Dickinson College, Nov. 21, 2015.

Efficiency of a Gridded Single-Pass Solar Air Heater," Date Grant Awarded: varded: \$5,741.93. Student Intern: Sophie Kirkman '19 2017

t-Faculty Collaborative Research grant in support of the e-bike project. Project mance Evaluation of e-bikes for Dickinson College," Date Grant Awarded: Oct.

llysis of a Singly Glazed Solar Air Heater with Matrix Absorber and Unique Air Iarch 1, 2016. Amount awarded: \$9,329.37. Student Intern: Elon Gordon '18

A. Pechenik and A. Pires. (2019). The legacy of multiple stressors: Responses of to ocean acidification and nutrition. Biol. Bull. 236: 159-173. (The first two grads who worked in my lab here and at University of Washington Friday

el, M. Levy, T. Dooley, A. Resnikoff and R.E. Taylor (2019). Impact of ocean of competence, and perception of cues for metamorphosis in larvae of the rnicata. Mar. Biol. 166:128. (The last two authors were Dickinson undergrads Jniversity of Washington Friday Harbor Labs.)

Pires, and S.W. Davies (2018). Resilience of Atlantic slippersnail Crepidula severe coastal acidification. Front. Mar. Sci. 5 (312): 1-12.

ior seminar about the history of environment in Enlightenment France. This e help of the Valley and Ridge seminar at Dickinson College, and it is crosslies here.

conference while on a research fellowship in Germany this past spring 2019, nvironment in the long 18th century.

om this fellowship at conferences as well as to my colleagues at Dickinson. thcoming--two articles on the history of environment.

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Rose	Susan	Sociology		Sustainability, broadly conceived, has been a focus of a number of migration Mosaics that I have been involved in. The two Mediterranean Migration Mosaics and the last two Mexican Migration Mosaics and the three Patagonia Mosaics focused on cultural sustainability (the ways in which migrant and immigrant communities maintain their dynamic culture even as they adapt to their new transnational realities); the impact of global climate change on migration patterns; and economic and environmental sustainability (how the state, employers, and workers negotiate economic and environmental costs and benefits related to productivity, labor, and health of humans and the environment). The China Practicum focused on out-migration from a Bai village and how it has affected farming (from subsistence farming to larger-scale farming) and how that has influenced	Addressed Impact of global climate change on migration patterns Cultural sustainability		 Hill, Ann, Jinji Wei, and Susan Rofor review, AsiaNetwork Journal "The Gamble: Mexican Circular Studies. Vol. 24, No. 1, Winter 2 Terre d'immgrants: Le Musée Vi Toux (eds.), Migrations, Mémoir 2008: 73-88. Documentary Film: "Destino Pat "From Migrant Work to Commu Peribán and Pennsylvania" with I could add some re: Indigenous does have a lot to do with culture
Sak	Peter	Earth Sciences	Latin American, Latinx and Caribbean Studies, Earth Science	cultural sustainability of the Bai ethnic community. My tectonic research as direct implications for natural hazards and hazard mitigation. My weathering research explores how the chemical weathering of silicate rocks helps to regulate atmospheric CO2 concentrations over geologic timescales.		Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions Colleagues at other institutions outside the U.S. Colleagues in other disciplines	Guo, J., Ma, L., Gaillardet, J., Sak rates across scales: Application Basse-Terre Island (French Guad Witter, A.E., Nguyen, M.H., Baid source to urban stream sedimen Sak, P.B, Miller, S.R., Ma, L., and Guadeloupe, with implications f Meeting
St. Angelo	Sarah	Chemistry		I work on green synthesis of nanomaterials, using nanomaterials to combat pollution of waterways, and using nanomaterials to convert carbon dioxide to useful chemicals and fuels. I have also worked with a student on his senior research related to sustainable agriculture.		Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions Colleagues in other disciplines	

Rose. "In Search of Community in Rural China." In Char Miller (ed.), submitted al.

r Migration and the Return on Remittances" with Robert Shaw, Mexican 2008: 79-111.

Virtuel Mosaïque de Patagonie with John Osborne. En Laure Telieres et Sylvie bires, Musées. Université de Toulouse-Le Mirail Collection: CNRS: Méridiennes,

atagonia" (Spanisha nd English, 71 minutes)

nunity Transformation: Families Forming Transnational Communities in the Sarah Hiller. Oral History Review. Vol. 34, No. 1. 2007: 97-144.

us Histories, Memories and Reclamations but I think that is a stretch although it tural sustainability

ak, P.B, Pereyra, Y., and Engel, J., in press, Reconciling chemical weathering n of uranium-series isotope systematics in volcanic weathering clasts from adeloupe): Earth and Planetary Science Letters.

idar, S., Sak, P.B., 2014, Coal-tar-based sealcoated pavement: A major PAH ents: Environmental Pollution, v. 185, p. 59-68.

nd Gaillardet J., 2018, Fluvial knickpoints and transient erosion on Basse-Terre, s for estimates of chemical weathering: .Geological Society of America Annual

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Strock	Helen	Environmental Studies	Social Innovation and Entrepreneurship	My research focuses on managing freshwater resources, our main source of drinking water worldwide, to support healthy societies and functioning ecosystems in the face of rapid environmental change. I employ scientific tools to better understand how aquatic ecosystems function, how this may change with increased human use and climate change, and how different management techniques may influence how these resources are used by communities. My research explores the complex relationship between business and the natural environment and, most recently and more specifically, business and climate change. I am currently investigating the businesses that are aligned with the 2016 Paris Agreement and how some very proactive businesses	In the past five years, I've	Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions Colleagues at other institutions outside the U.S. Colleagues in other disciplines	 Somers, D.J., K.E. Strock, J.E. Sarver, West Greenland. Microbial Ecolor Strock, K.E., J.E. Saros, S. McGow, Wind Strength: Coherent Physica Over the 20th Century. Limnolog Gavin, A.L., S.J. Nelson, A.J. Klerrer Climate Linkages to Increased Di 54(8): 5376-5393 doi: 10.1029/2 Richardson, D.C., S.J. Melles, R.N. Jackson , E.C. Long, K. Moore, L.G. Wigdahl-Perry. 2017. Transparent temperature and stratification a 10.3390/w9060442. Strock, K.E., N. Theodore, W. Ga carbon concentrations in northe structure. Journal of Geophysica Hayes, N., Deemer, B., Corman, A. modify climate signals: a case fo doi:10.1002/lol2.10036 Coble, A., Asch, R.G., Rivero-Call Climate is variable, but is our sci Takacs, C. H. 2013. Teaching aboresource list. Journal of Education Takacs, C.H. 2012. Sustainable coresponsibility. International Jour
Tynan	Nicola	Economics	Policy Studies	have committed to operations that reverse climate change. I look at water resource management and the impact of clean water provision on public health from an economic and	Impact of water quality decline on public health in an urban setting.	Dickinson Students Colleagues at other institutions Colleagues in other disciplines	
Vazquez	Eric	American Studies	Latin American, Latinx and Caribbean Studies	historical perspective. Increasingly, undocumented immigrants to the US included so-called "climate refugees." As my research increasingly takes up unauthorized entrants into the US, my work increasingly acknowledges this problem as part of the flow of migrants into the US.	Climate refugees.		

aros. 2018. Environmental controls on microbial diversity in Arctic Lakes of ology. In Revision for Publication.

owan, M. Edlund, D.R. Engstrom. 2019. Response of Boreal Lakes to Changing ical Changes Across Two Large Lakes but Varying Effects on Primary Producers ogy and Oceanography. 00: 1-15 doi:10.1002/lno.11181.

emmer, I.J. Fernandez, K.E. Strock, and W.H. McDowell. 2018. Acidification and Dissolved Organic Carbon in High Elevation Lakes. Water Resources Research. /2017WR020963.

R.M. Pilla, A.L. Hetherington, L.B. Knoll, C.E. Williamson, B.M. Kraemer, J.R. L.G. Rudstam, J.A. Rusak, J.E. Saros, S. Sharma, K.E. Strock, K.C. Weathers, C.R. rency, geomorphology, and mixing regime explain variability in trends in lake a across northeastern North America (1975 - 2012). Water. 9 (442) doi:

Gawley, A.C. Ellsworth, and J.E. Saros. 2017. Increasing dissolved organic hern boreal lakes: implications for lake water transparency and thermal cal Research: Biogeosciences. 122, doi:10.1002/2017JG003767.

n, J., Razavi, R., Strock, K.E. 2017. Key differences between lakes and reservoirs for a new conceptual model. Limnology and Oceanography Letters. 2: 47–62.

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cotton production in India: A case study in strategic corporate social urnal of Business and Social Research. 2(3): 1-10.

Last Name	First Name	Department	Other Department Affiliations	Description of Scholarly Work	Sustainability Challenges Addressed	Engagement with Others	
Whitmore	Jim	Computer Science	International Studies	I am an Adjunct Faculty Member in Math and Computer Science. I develop and teach special topics courses on the topic of Cyber and Information Security. As I understand the provided definition of Sustainability, my courses and my research have a direct connection to "secure livelihood" and "resilient infrastructure" and likely other aspects.	My primary work is to prepare individuals to design and develop computing systems that are appropriate for use including uses deemed as critical infrastructure. I am also independently involved in standards efforts associated with secure health devices and systems. I am also involved in independent scholarly writing.		
Wingert	Harold	Biology	State Museum of PA	I investigate amphibian and some reptile phenology. My research establishes baseline data that can be used to assess the effects of climate change into the future. I also track the population sizes of some amphibians and have published the disappearance of several local species.	-	Dickinson Students Dickinson Faculty and Staff Colleagues at other institutions Colleagues in other disciplines	 Breeding Episodes of Eastern Spa Walter E. Meshaka, Jr. Eugene W Herpetology Number 40, Decemb Status and Distribution of Eastern Statewide Conservation Implication Cassell, Pablo Delis, and Noel Pot 2012 Adult Body and Clutch Characterin Single Site in South-Central Pennes Wingert. Collinsorum: The Journa Breeding and Larval Growth of th Two Adjacent Sites in South-Cent and Eugene Wingert3 Bulletin of 2013 The Red_eared Slider, Trachemys Eugene Wingert, Scott Boback an Volume 50 Numbers 1-2 January- Confirmation of Species Identity, versicolor Leconte, 1825) from C Tiffany Frey, Michael Roberts, Ch R. Cline: Collinsorum 4(1) April 20

Spadefoot, Scaphiopus holbrookii(Harlan, 1835) in Central Pennsylvania. Wingert, Randy Cassell, Pablo Delis and Sarah Mortzfeldt. Journal of Kansas mber 2011.

ern Spadefoot, Scaphiopus holbrookii (Harlan 1835) in Pennsylvania: cations for an Imperiled Species. Walter E. Meshaka Jr. Eugene Wingert, Randy Potter. Collinsorum: The Journal of Kansas Herpetology vol 1(2/3) September

teristics of the Spring peeper, Pseudacris crucifer (Wied-Neuwied, 1838) from a nnsylvania. Walter E. Meshaka, Sarah Bartle, Pablo R. Delis and Eugene rnal of Kansas Herpetology. Vo. 1 number 2/3 September 2012

f the Marbled Salamander, Ambystoma opacum (Gravenhorst, 1807), From entral Pennsylvania Walter E. Meshaka Jr1, Stephanie Williams2, Pablo Delis2 of the Maryland Herpetological Society Vol 49 Numbers 1-4 January-December

nys scripta elegans (Wied, 1838), Established in Pennsylvania. Julia L. Russell, and Walter E. Meshaka. Bulletin of the Maryland Herpetological Society. ary-June 2014

ty, Body Sizes, and Clutch Characteristics of the Eastern Gray Treefog (Hyla Cumberland County Pennsylvanis. Walter E. Meshaka, Jr., Eugene Wingert, Charles Zwemer, Sarah R. Bartle, Nicole A. Davidson, Pablo R. Delis and George I 2015

Last Name	First Name	Department	Other Department Affiliations	Description of Scholarly Work	Sustainability Challenges Addressed	Engagement with Others	
Witter	Amy	Chemistry	Biochemistry and	I am looking at chemical contamination	Examining the chemical	Dickinson Students	Witter AE. 2011. Water for a Thi
			Molecular Biology	that is present in stormwater runoff. As	composition of commercial	Dickinson Faculty and Staff	Science Students. In: Middlecam
				stormwater runoff enters urban streams,	products that enter the water		Washington, DC: American Chen
				it impairs stream health. As many of our	supply through unintended		
				streams serve multiple purposes as both	consequences; ranking chemicals in		Witter AE, *Nguyen MH*, *Baida
				our wastewater, stormwater, and	order to find more sustainable		source to urban stream sedimen
				drinking water supplies, the study of	products for consumers to choose.		
				chemical contamination links to the			Witter AE, and Sak PB. 2014. Re
				preservation of clean drinking water.			Source to Urban Stream Sedimer
							Witter AE, and Sak PB. 2014. Re Sealcoated Pavement: A Major P
							http://dx.doi.org/10.1016/j.envp
							Witter, AE and *Nguyen, MH. 20 aromatic hydrocarbons (PAHs) in
							Witter, AE. 2019. Quantification compounds released in urban ru

Thirsty World: A Liberal Arts Seminar Course Designed for First-Year Nonamp CH, and Jorgensen AD, eds. Sustainability in the Chemistry Curriculum. emical Society Symposium Series Books, 1087; 141-158.

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Response to letter on Coal-Tar-Based Sealcoated Pavement: A Major PAH nents. http://dx.doi.org/10.1016/j.envpol.2014.02.015.

Response to O'Reilly's second letter to the editor on coal-Tar-Based r PAH Source to Urban Stream Sediments. hvpol.2014.03.037.

2016. Determination of oxygen, nitrogen, and sulfur-containing polycyclic) in urban stream sediments. Env Poll, 209, 186 – 196.

ion of azaarenes, hydroxylated azaarene derivatives, and other polar runoff from two commercial sealcoat products. Env Poll 254, 113103.