CHRISTY MELHART SLAY. PH.D.



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https://sustainabilityconsortium.org/staff/

https://hicaves.wordpress.com/

PROFESSIONAL EXPERIENCE

April 2022-present. CEO and VP, Science and Impact, The Sustainability Consortium. Arizona State University, Julie Ann Wrigley Global Futures Laboratory, Tempe, AZ.

Dr. Christy Slay is a conservation biologist and sustainability scientist leading The Sustainability Consortium (TSC) as CEO, where she oversees the development of a global, scientifically based measurement and reporting system for product sustainability. With deep roots in field biology and ecological research, Slay brings a conservation-first lens to her work on supply chains, commodities, and environmental impact.

Her scientific contributions span both applied and field-based research. She publishes in leading journals, including Nature Climate Change on global forest carbon fluxes and Science on the drivers of global forest loss — work that directly connects conservation biology to global commodity systems. In her spare time, she co-leads cave ecology research for the HICAVES Project on the island of Hawaii, where her team has discovered new species in previously unexplored cave ecosystems, work featured in a PBS Nature documentary.

Slay received her doctorate in biological sciences from the University of Arkansas and her B.A. in biology from Hendrix College, with coursework at Birkbeck College, University of London. Before her graduate research, she developed conservation education curriculum with the National Audubon Society and authored articles for Audubon Magazine — blending her field expertise with science communication. She brings 23 years of experience as an educator across collegiate and environmental education settings, and currently serves on the board of the Ozark Natural Science Center, a residential nature education center for school children.

At TSC, which she has helped lead since its founding in 2009, Slay directs strategic planning, leads the CommodityMap program, manages key scientific partnerships, and serves as Principal Investigator on several research grants. She has co-authored reports on sustainable agricultural metrics and climate resilience in supply chains, and has been featured on CNBC as an expert on supply chains and climate change.

TOTAL CAREER AWARDS:

$3.8M

- Cave invertebrate conservation in Hawaii lava tube caves. HICAVES Project is discovering new invertebrate species in Hawaii lava tube caves
- Farmers for Soil Health Marketplace to democratize farmer access to environmental benefit markets
- supply chain traceability including food, forestry, mining
- Mapping environmental and social risks from consumer goods production including deforestation, child and forced labor, water scarcity, and biodiversity
- Application of remote sensing, GIS, and modeling to create sustainability solutions for business
- Scaling sustainable agriculture through partnerships, novel solutions, and research applications
- Sustainability metrics and performance assessment including barriers and opportunities for data mobility
- Migratory shrubland bird management and conservation

2021-2022. Interim CEO, VP Science and Impact, The Sustainability Consortium. Fayetteville, Arkansas.

2020 - 2021. Senior Director, Science and Research Applications, The Sustainability Consortium. Fayetteville, Arkansas.

2020 - present. Adjunct Professor, Arizona State University, College of Integrative Sciences and Arts. Scottsdale, Arizona.

2019 - present. Adjunct Professor, University of Arkansas, Walton College of Business. (Graduate Course taught: Sustainability in Business). Fayetteville, Arkansas.

2018 - 2020. Director, Technical Alignment, The Sustainability Consortium. University of Arkansas, Fayetteville, Arkansas.
2015 - 2018. Director, Research, The Sustainability Consortium. University of Arkansas, Fayetteville, Arkansas.

2014 - 2015. Senior Research Manager, Sustainability Measurement and Reporting System and Commodity Mapping Program, The Sustainability Consortium. University of Arkansas, Fayetteville, Arkansas.

2012 - 2014. Research Manager and Commodity Mapping Project leader, The Sustainability Consortium. University of Arkansas, Fayetteville, Arkansas.

2010 - 2012. Postdoctoral Research Associate, Environmental Dynamics Program and The Sustainability Consortium. University of Arkansas, Fayetteville, Arkansas. "Global commodity production: An analysis of supply chains, land-use, and associated environmental risks."

2008 - 2010. Graduate Research Assistant, The Sustainability Consortium, Walton College of Business, University of Arkansas, Fayetteville, Arkansas.

2004 - 2008. Graduate Assistant and Instructor, Department of Biological Sciences, University of Arkansas, Fayetteville, Arkansas. (Courses taught: Principles of Biology, Ecology, Zoology, Human Physiology, Wildlife Techniques)

2001- 2004. Education Specialist, Audubon Connecticut, Greenwich, Connecticut.

2003 - 2004. Editorial Intern, Audubon Magazine, New York, New York

1998 - 2001. Senior Teacher Naturalist, Ozark Natural Science Center, Huntsville, Arkansas.

EDUCATION

2010-2012. Postdoctoral Research Associate. Environmental Dynamics Program and The Sustainability Consortium. University of Arkansas, Fayetteville, Arkansas. Drs. Steve Boss and Greg Thoma, Advisors.

2010. Ph.D. Biological Sciences. University of Arkansas, Fayetteville, Arkansas. Dr. Kimberly Smith, Advisor. Dissertation "An evaluation of reproductive success, adult survivorship, and habitat use of shrubland birds on conservation managed fields in western Connecticut"

1998. B.A. Biology. Hendrix College, Conway, Arkansas and attended Hendrix in London at Birkbeck College, London, U.K.

RESEARCH EXPEDITIONS

HICAVES Project: Survey of cave fauna in lava tube caves in the southwest region of the Ka'ū district of the Big Island, Hawai'i, December 2015 - current. https://hicaves.wordpress.com/

Survey of Cave Fauna in the Toledo District, Punta Gorda, Belize, April 2012 and January 2014.

FEATURED PUBLICATIONS

Sims, M.J., R. Stranimirova, A. Raichuck, et. al, 2025. Global drivers of forest loss at 1km resolution. Environmental Research Letters 20(7). https://iopscience.iop.org/article/10.1088/1748-9326/add606?utm_source=researchgate.net&utm_medium=article

Garcia-Moore, T., C. Urban, E. Killeen, J. Rockvam, C. Melhart Slay, A. Skoczlas Cole, 2023. Farmers' Perspectives on Data: Feed Sustainability Data in Pork Supply Chains (Third Edition). Trust In Food™ at Farm Journal & The Sustainability Consortium. https://www.trustinfood.com/wp-content/uploads/2024/01/TSC-Feed-Study-Report-FINAL-1-24.pdf

Hannelore, H., M.L. Porter, C.M. Slay, M.E. Slay, M. Streck, and R. Chong, 2024. From the dark side of paradise: a new natural replication of cave planthopper evolution from Hawaiian lava tubes (Hemiptera: Fulgoromorpha: Cixiidae). Zoological Journal. https://academic.oup.com/zoolinnean/article/202/3/zlad198/7577460

Myers, A., J.K. Lowry, S.J. Taylor, M.E. Slay, C.M. Slay, M.L. Porter, 2023. A new species of Spelaeorchestia (Crustacea: Amphipoda: Talitroidea) from Lava Tube Caves on the Island of Hawai'i in the Hawaiian Archipelago. Records of the Hawaiian Biological Survey Bishop Museum Occasional Papers. https://hbs.bishopmuseum.org/pubs-online/pdf/op155p185-199.pdf

Slattery, D., K. Rayburn, **C.M. Slay**, and T. Garcia-Moore. 2021. Farmer perspectives on data 2021. Trust in Food. https://www.trustinfood.com/wp-content/uploads/2021/05/Farmer-Perspectives-on-Data-2021.pdf

Harris, N., D. Gibbs, A. Baccini, R. Birdsey, S. de Bruin , M. Farina, L. Fatoyinbo, M. Hansen, M. Herold, R. Houghton, P. Potapov, D. Requena Suarez, R. Roman-Cuesta, S. S. Saatchi, **C. Slay**, S. Turubanova, and A. Tyukavina, 2021. Global maps of 21st century forest carbon fluxes. Nature Climate Change. https://rdcu.be/cdY40

Atwood, R., J. Clift, **C.M. Slay**, S. Meiburg, A. Wilcox, A. Oduoa, and T. Garcia, June, 2020. The efficacy and value generated from sustainable cotton programs in the United States. Meridian Institute Supply Chain Sustainability Research Fund. https://www.supplychainresearch.eco/effectiveness

Slay, C. and K. Dooley. Improving Supply Chain Resilience to Manage Climate Change Risks. HSBC Centre of Sustainable Finance, HSBC Sustainable Finance, June, 2020. https://www.sustainablefinance.hsbc.com/sustainable-infrastructure/supply-chain-resilience-and-climate-change

Slattery, D., K. Rayburn, and **C.M. Slay**, 2020. Farmer perspectives on data. Trust in Food. Retrieved June 3, 2020. https://www.trustinfood.com/wp-content/uploads/2020/05/Farmer-Data-Perspectives-Research_final.pdf

Curtis, P.G., **C.M. Slay**, N.L. Harris, A. Tyukavina, and M. Hansen. 2018. Classifying drivers of global forest loss. *Science* 361: 1108-1111.

Slay, C.M. and P.G. Curtis, 2017. Coffee Production and Sustainability: The Sustainability Consortium's Commodity Mapping Report. The Sustainability Consortium.

Slay, C.M. and A. Raster, 2017. Sustainable Commodity Supply Chains Project: Case studies and a framework for addressing sustainability in commodity procurement and supplier codes of conduct. The Sustainability Consortium.

Slay, C.M., J. Reijs, and A. Raster, 2016. How to get sustainability data following in agriculture supply chains. The Sustainability Consortium.

Slay, C., K. Ellison, C.A. Ribic, K. Smith, and C. Schmitz. 2012. Nocturnal Activity of Nesting Shrubland and Grassland Passerines. Pp. 105-115 *in* C.A. Ribic, F.R. Thompson, and P.J. Pietz (editors), Video surveillance of nesting birds. Studies in Avian Biology Series (vol. 43), University of California Press, Berkeley, CA.

Slay, C.M. and K.G. Smith. 2009. A comparison of nest success rates of four shrubland specialists in conservation-managed fields to other managed and unmanaged shrublands. Pp. 705-712 in Rich, T.D., C. Arizmendi, D.W. Demarest, and C. Thompson, editors. Proceedings of the Fourth International Partners in Flight Conference. 13-16 February 2008. McAllen, Texas. Partners in Flight. 712 pp.

Stephenson, S.L., M.E. Slay, **C.M. Slay**, and A.E. Tuggle. 2007. Cave crickets (Orthoptera: Rhaphidophoridae) as vectors of dictyostelids. Entomological News 118: 292-295.

GRANTS AND AWARDS

$346,262 C.M. Slay, 2026, Farmers for Soil Health (FSH) UDSA Advancing Markets for Producers, National Fish and Wildlife Foundation

$176,000- C.M. Slay, 2023, USDA Connected Ag Climate Smart Project, Farm Journal Trust in Food

$304,000- C.M. Slay, 2023, USDA Farmers for Soil Health (FSH) Climate Smart Commodities Partnership, National Fish and Wildlife Foundation

$48,000- C.M. Slay, 2022, Corporate outreach and recruitment, United Soybean Board

$616,000- C.M. Slay, 2023, Ethical Charter, Equitable Food Initiative, Walmart Foundation

$225,000- C.M. Slay. 2022. TSC Resilient Agriculture Accelerator Fund Project, Smuckers

$800,000 - C.M. Slay. 2021. TSC Resilient Agriculture Accelerator Fund Project, Zoetis

$100,000 - C.M. Slay. 2021. TSC Resilient Agriculture Accelerator Fund Project, Syngenta

$100,000 - C.M. Slay. 2021. TSC Resilient Agriculture Accelerator Fund Project, Nutrien

$224,994 - **C.M. Slay. 2021.** Classifying drivers of global forest loss at 30m resolution from the World Resources Institute. (subaward from $100 million grant from the Bezos Earth Fund)

$610,676 - **C.M. Slay 2021.** Commodity Mapping Platform: Bridging the Supply Chain Information Gap Walmart Foundation

$46,562 - **C.M. Slay.** 2019. The Efficacy and Value Generated from Sustainable Cotton Programs in the United States. Partnership with Wake Forest University. (subaward from $145,000 grant from the Meridian Institute)

$129,000 - **C.M. Slay.** 2019. Coffee & Forest Conservation: Piloting improved assessment, monitoring and planning for deforestation free coffee landscapes in Colombia and Indonesia. Partnership with Conservation International. (subaward from $1.25 million grant from Walmart Foundation)

$17,000 - Porter, M., **C.M. Slay**, and M. Slay. 2018. Biodiversity, Biogeography, and Conservation of Unique Hawaiian Island Cave Communities. Cave Conservancy of the Virginias.

$375,000 - **Slay, C.M.** 2017. Connectivity and Gap Solutions in Agricultural Supply Chains. Walmart Foundation

$17,000 - Porter, M., **C.M. Slay**, and M. Slay. 2016. Biodiversity, Biogeography, and Conservation of Unique Hawaiian Island Cave Communities. Cave Conservancy of the Virginias.

$200,000 - Slay, C.M. 2016. Driving Increased Transparency of Sustainability Attributes in Commodity Supply Chains. Walton Family Foundation.

$50,000 - Slay, C.M. 2016. Value of Natural Capital to the Retail and Consumer Packaged Goods Industries: Tools and Business Solutions. Walmart Foundation.

$12,400 - Slay, C.M., and K. Smith. 2007-2009. Return rates, philopatry and recruitment of Prairie Warblers, Blue-winged Warblers, Indigo Buntings, and Field Sparrows on managed shrub habitat in western Connecticut. Various Funders: Nuttall Ornithological Club, Connecticut. Arkansas Audubon Society Trust, Audubon Connecticut Council, Lillinonah Audubon Society of Connecticut, University of Arkansas Department of Biological Sciences.

SCIENCE AND NON-PROFIT SERVICE

2026- Agraya Changemaker Awards Jury
2016-present, United Nations New York Declaration on Forests Working Group
2015-2022, Coordinating Council, Stewardship Index for Specialty Crops
2015-present, Reviewer for Journal of Avian Conservation and Ecology
2014-present, Reviewer for International Journal of Life Cycle Assessment
2016-2019, Metrics Committee, U.S. Roundtable for Sustainable Beef

The Ozark Natural Science Center
https://www.onsc.us/
2019-present, Board of Directors, Ozark Natural Science Center
2016-2019, President of the Board, Ozark Natural Science Center
2014-2016, Vice President of the Board, Ozark Natural Science Center

INVITED SPEAKER ENGAGEMENTS

Addressing the gap between farmers and sustainability efforts, Sustainable Agriculture Summit, Anaheim, CA, November 20, 2025. (panel speaker)

The Eco Algorithm: AI and Data Powering a Sustainable Tomorrow, Women's Inspiring Network Climate Week, New York, New York, September 24, 2025. (panel speaker)

Chain Reaction: A workshop for retailers to tackle Scope 3 hotspots, Climate Week, New York, New York, September 23, 2025. (roundtable leader)

Understanding Farmer Perspectives: Data-Driven Insights to Accelerate Outreach and Adoption, Trust in Food Symposium, Kansas City, KS, February 8, 2024. (panel speaker)

TSC's THESIS and retailer engagement, National Corn Growers Assoc. Corn Sustainability Advisory Group, December 16, 2021. (speaker)

TSC Resilient Agriculture Fund. Field to Market Innovative Finance Work Group, March 30, 2021. (speaker)

Filling in the blanks: What we learn when we listen to farmers. Sustainable Agriculture Summit, November 19, 2020. (panel speaker)

Supply Chain Sustainability Virtual Research and Learning Symposium Deep Dive Session: Sustainability in U.S. Cotton production: Are we making progress? Meridian Institute. June 25, 2020. (panel speaker)

Creating Resilient Supply Chains in the Face of Climate Change and COVID 19. United Nations Global Compact Leaders Summit, June 16, 2020. (panel facilitator and organizer)

Mobilizing Data for Conservation: On- and Off-Farm Perspectives. Advancing Digital Agriculture and Conservation: A Virtual, Multi-Day Policy Workshop. Cornell University, University of Illinois, and Farm Foundation. May 29, 2020. (panel speaker)

Deep Dive Panel: Communications Strategies. Supply Chain Transparency Summit. GreenBiz. Feb 4, 2020. (panel speaker)

Data, Technology, and Metrics of Conservation Ag Practice Adoption: What Are You Doing To Fix The Gaps? Bridges Over Barriers. Trust in Food Symposium. Chicago, IL, January 29-30, 2019. (panel speaker)

Understanding the Drivers of Global Tree Cover Loss. World Resource Institute's Global Forest Watch Summit. Washington D.C. June 19, 2019. (speaker)

Drivers of Global Deforestation and What it Means for Arkansas. Arkansas Academy of Science Annual Meeting. Conway, AR. April 30, 2019. (speaker)

Can (and Should) the Coffee Sector Make a Zero Deforestation Commitment. Specialty Coffee Expo. Boston, MA. April 14, 2019. (speaker)

Data Science: The Path to Value Chain Accelerated Conservation Agriculture Adoption and Consumer Trust. Trust in Food Symposium. Chicago, IL, January 15, 2019. (panel moderator and speaker)

When a tree falls is it deforestation?: Classifying drivers of global forest loss. Sustainable Forestry Initiative Conservation Sounding Board. Washington, D.C. March 8, 2018. (speaker)

My One Sustainability Challenge. Trust in Food Symposium. Chicago, IL, January 23, 2018. (speaker)

Timber Sustainability. Arkansas Forestry Association Annual Meeting. Little Rock, AR, October 4, 2017. (speaker)

An Introduction to The Sustainability Consortium. National Council of Farmer Cooperatives Annual Meeting. Little Rock, AR, October 4, 2017. (speaker)

An Introduction to The Sustainability Consortium. BASF Food Transparency Workshop. Yankee Stadium. Bronx, NY, September 19-20, 2017. (speaker)

An Introduction to The Sustainability Consortium and Results of Vegetable Surveys. Monsanto Vegetable Seeds Advisory Committee, Washington, D.C., August 8, 2017 (speaker).

Preliminary results from a survey of lava tube caves in the southwest region of the Ka'u district of the Big Island, Hawai'i. National Speleological Society Convention, Rio Rancho, NM, July 21, 2017. (speaker)

An Introduction to The Sustainability Consortium. Art Johnson Distinguished Lecture Series. Hendrix College, Conway, AR. April 27-28, 2017. (speaker)

Sustainable sourcing: Why some agricultural commodities lag, whilst others lead, Innovation Forum for Sustainable Agriculture, Washington, D.C, March 22-23, 2017 (panelist)

Biostimulants: Changing Perspectives Around the World. BioPesticides Industry Alliance International (BPIA) Conference, Reno, NV, February 28-March 2, 2017. (panelist)

Aligning Social & Labor Sustainability Metrics in the Textile Industry and Beyond, GreenBiz Forum, Phoenix, AZ, February 13-16, 2017 (panel organizer)

An Introduction to The Sustainability Consortium. Dow Agrosciences. Indianapolis, IN, January 12, 2017. (speaker)

Data Beyond Collection, The Sustainability Consortium, Sustainable Agriculture Summit, Atlanta, GA, November 15-17, 2016 (panel organizer)

Innovation in Engaging Stakeholders in the Forest Products Supply Chain. Sustainable Forestry Initiative (SFI) Annual Conference, Tampa, FL, September 28-29, 2016. (panelist)

An Introduction to the Sustainability Consortium, FMI/GMA Global Sustainability Summit, New Orleans, LA, August 10-12, 2016

The Sustainability Consortium: Product Sustainability Revealed, Translated and Realized, GreenBiz Forum, Phoenix, AZ, February 23-25, 2016 (speaker)

The Sustainability Consortium: Product Sustainability Revealed, Translated and Realized, GreenBiz Forum, Phoenix, AZ, February 17-19, 2015 (speaker)

Water Use in Agricultural Products: How Companies are Measuring and Reporting Sustainability Performance, Botanical Research Institute of Texas (BRIT), Ft. Worth, Texas, April 24, 2014. (speaker)

Northwest Arkansas Environmental Programs Symposium, Ozark Natural Science Center, Huntsville, Arkansas, March 21, 2014 (workshop facilitator)

Commodity Mapping Innovation Project, Sustainability Summit, Sustainability Leadership Council Joint meeting of MillerCoors, Pepsico, and McDonalds, February 26, Chicago, Illinois. (speaker and panelist)

How Commodity Mapping Reduces Supply Chain Risk, GreenBiz Forum, February 18-20, Montelucia Resort, Phoenix, Arizona. (workshop instructor)

Recognition and Acceptance of Wine Sustainability Programs: Are We Getting the Sustainability Message Across? Sustainable wine and viticulture production session, SIMEI Conference, November 12-13, 2013. Milan, Italy. (keynote speaker and panelist)

The Search for Sustainable Products: Collaboration and competition. BSR Conference 2012. October 23-26, 2012. New York, New York. (panelist)

The Birds of Northwest Arkansas, Arkansas Master Naturalists Training Program, Hobbs State Park, March 2012. (workshop instructor)

Developments and application of land use in LCA-where do we stand and where to go. LCA XI. Oct 4-6, 2011. Chicago, Illinois. (panelist)

Biodiversity in Northwest Arkansas: The importance of life above and below ground. Sustainability Speaker Series, September 12, 2011. University of Arkansas, Fayetteville, Arkansas. (speaker)

ORGANIZED CONFERENCES/ WORKSHOPS/FIELD TOURS

TSC Summit 2024, Bentonville, Arkansas, April 9-11, 2024. (organizer/speaker)

TSC Summit 2023, Tempe, Arizona, March 28, 2023. (organizer/speaker)

THESIS Leadership. Sustainability Consortium Virtual Summit. May 13, 2021. (speaker)

Supply Chain Origins: Sustainability's Challenge of Getting to the Root of Food and Fiber Production. Sustainability Consortium Virtual Summit. May 12, 2021. (workshop organizer and facilitator)

Sustainability Takes Flight. Sustainability Consortium Virtual Summit. May 11, 2021. (organizer and moderator)

Agricultural Metrics Workshop: Resiliency and Regeneration in the Age of Climate Change and Covid. The Sustainability Consortium Virtual Summit. May 10, 2021. (workshop organizer and facilitator)

Setting, Measuring and Reporting Crop Specific Sustainability Goals, The Sustainability Consortium, THESIS Live Webinar Series, June 9, 2020 (organizer)

Feeding Our Food Workshop. The Sustainability Consortium Virtual Summit. April 30, 2020. (workshop organizer and facilitator)

The Future of Commodity Mapping. The Sustainability Consortium Virtual Summit. April 28, 2020. (workshop organizer and facilitator)

Ag Metrics: Vision 2020. The Sustainability Consortium Virtual Summit. April 28, 2020. (workshop organizer and facilitator)

Feeding Our Food: Opportunities to Advance Feed Sustainability in the Animal Value Chain. The Sustainability Consortium Summit, Chicago, IL. May 9, 2019. (workshop organizer and facilitator)

The Future of Forests: Missing the 2020 Targets and What it Means for the World. The Sustainability Consortium Summit, Chicago, IL. May 9, 2019. (closing plenary speaker)

Cultivating the Future: Innovations in Agriculture. The Sustainability Consortium Summit, Chicago, IL. May 8, 2019. (session organizer and moderator)

10 Years of Agriculture Metrics: Past, Present, and Future. The Sustainability Consortium Summit, Chicago, IL. May 7, 2019. (workshop organizer and facilitator)

TSC Data Landscape Mapping Workshop. Denver, CO. November 12, 2018. (workshop organizer)

Tools for Achieving Zero Deforestation Commitments by 2020. The Sustainability Consortium Summit, Chicago, IL. May 3, 2018. (session organizer and moderator)

TSC's Sustainable Commodities Supply Chain Report and Framework in Action Workshop. The Sustainability Consortium Summit, Chicago, IL. May 2, 2018. (session organizer and moderator)

Why Brands and Retailers Need Farm-Level Sustainability Data: Use Cases for IT Solutions. The Sustainability Consortium Summit, Chicago, IL. May 1, 2018. (workshop organizer and facilitator)

TSC Data Landscape Mapping Workshop. Kansas City, KS, November 13, 2017. (workshop organizer)

TSC Metrics Providers Workshop. Washington, D.C., September 26, 2017. (workshop organizer)

Agriculture Metrics Task Force Meeting, The Sustainability Consortium Summit, Washington, D.C., April 12, 2017 (workshop organizer)

Natural Capital in Retail and Consumer Goods: Natural Capital Coalition, The Sustainability Consortium Summit, Washington, D.C., April 12, 2017 (workshop organizer)

Context-based Water Targets and Water Modeling in Supply Chains: Discussion Paper Launch, The Sustainability Consortium Summit, Washington, D.C., April 12, 2017 (workshop organizer)

Deforestation: Where we are, and where we are headed!, The Sustainability Consortium Summit, Washington, D.C., April 12, 2017 (workshop organizer)

Sustainable Commodities Workshop, The Sustainability Consortium Summit, Washington, D.C., April 11, 2017 (workshop organizer)

Value of Natural Capital to the Retail and Consumer Packaged Goods Industries Workshop, in collaboration with The Nature Conservancy, Washington, D.C. September 26, 2016 (workshop organizer)

Agriculture Metrics Workshop, The Sustainability Consortium Summit, Washington, D.C., April 19-21, 2016 (workshop organizer)

Agriculture Metrics Workshop, The Sustainability Consortium Summit, Washington, D.C., April 22-24, 2015 (workshop organizer)

TSC Agriculture Field School, Visalia, CA, July 28-30, 2015 (workshop organizer and instructor)

Assessing Climate Related Risks in the Supply Chains, Climate Strategies Forum, Association of Climate Change Officers, Washington D.C., May 13-14, 2014. (workshop organizer and instructor)

PAPER PRESENTATIONS

Slay, C.M., M.E. Slay, J.K. Liebherr, H. Hoch, A.M. Myers, M. Steck, S.J. Taylor, R.A. Chong, and M.L. Porter. 2024. From the dark side of paradise: three new cavernicolous species discovered in lava tubes on Hawai'i Islands. Joint meeting of the 26th International Conference on Subterranean Biology and 6th International Symposium of Anchialine Ecosystems. 9-14 September 2024. Cittadella Universitaria di Monserrato, Cagliari, Sardinia, Italy. (Oral presentation)

Slay, M.E., A.S. Engel, **C.M. Slay**, and M.L. Porter. 2024. Filling the gaps for the cavernicolous species records for Hawai'i. Joint meeting of the 26th International Conference on Subterranean Biology and 6th International Symposium of Anchialine Ecosystems. 9-14 September 2024. Cittadella Universitaria di Monserrato, Cagliari, Sardinia, Italy. (Oral presentation)

Engel, A.S., M.E. Slay, **C.M. Slay**, M.L. Porter, and R.A. Chong. 2023. Filling in the gaps for the cavernicolous species records for Hawai'i. 2023 National Speleological Society Convention. 26-30 June 2023. David and Elkins College, Elkins, West Virginia. (Oral presentation)

Chong, R., M. Steck, S. Engel, A. Hudson, T. Gracanin, V. Hackell, **C. Slay**, M. Slay, A. Engel, and M. Porter. 2020. Subterranean biodiversity of the Island of Hawai'i: insights into the evolution and diversification of cave-adapted planthoppers. 27th Hawai'i Conservation Conference. 1-3 September 2020. Virtual Conferece. (Oral presentation)

Porter, M., R. Chong, M. Steck, S. Engel, A. Hudson, T, Gracanin, V, Hackell, P. Bosted, **C. Slay**, M. Slay, and A. Engel. 2020. Subterranean biodiversity and food web complexity on the Island of Hawai'i. 27th Hawai'i Conservation Conference. 1-3 September 2020. Virtual Conference. (Oral presentation)

N.L. Harris, Curtis, P.G., **C.M. Slay**, A. Tyukavina, and M. Hansen. Classifying drivers of global forest loss. AGU 100, December 9-13, 2019. San Francisco, CA.

Slay, M.E., M.L. Porter, **C.A.M. Slay**, and A.E. Engel. 2018. (Abstract only). Preliminary results from a survey of lava tube caves in the southwest region of the Ka'ū district of the Big Island, Hawai'i. ARPHA Conference Abstracts 1:e29874.

Engel, Annette, M. Porter, R.A. Chong, M. Steck, M.E. Slay, and **C.M. Slay**. 2019. Biogeochemistry of deep root fluids in lava tubes and their food web implications, Hawai'i. 24th International Symposium on Environmental Biogeochemistry. 22-27 September 2019. Helmholtz Centre Potsdam German Research Centre for Geosciences, Potsdam, Germany (Oral presentation)

Engel, S.A., M.E. Slay, **C.M. Slay**, M.L. Porter, R.A. Chong, T. Gracanin, and V. Hackell, P. Bosted, A.S. Engel. 2019. Surveying, science, and conservation in the world's longest lava tubes. 2019 National Speleological Society Convention. 17-21 June 2019. Cookeville High School, Cookeville, Tennessee. (Oral presentation)

Slay, M.E., M.L. Porter, **C.A.M. Slay**, and A.E. Engel. 2018. (Abstract only). Preliminary results from a survey of lava tube caves in the southwest region of the Ka'ū district of the Big Island, Hawai'i. ARPHA Conference Abstracts 1:e29874.

Slay, M.E., M.L. Porter, and **C.A.M. Slay**. 2018. Preliminary results from a survey of lava tube caves in the southwest region of Ka'ū district of the Big Island, Hawai'i. 24th International Conference on Subterranean Biology. 20-24 August 2018. University of Aveiro, Aveiro, Portugal. (Oral presentation)

Summers Engle, A., M.L. Porter, M.E. Slay, and **C.M. Slay**. 2018. Fluids associated with deep roots in lava tubes and their food web implications. 2018 National Speleological Society. 30 July – 3 August 2018. Capital High School, Helena, Montana. (Oral presentation)

Slay, C.A.M., M.L. Porter, and M.E Slay. 2017. Preliminary results from a survey of lava tube caves in the southwest region of the Ka'ū district of the Big Island, Hawai'i. 2017 National Speleological Society Convention. 19-23 June 2017. Santa Ana Star Center, Rio Rancho, New Mexico. (Oral presentation)

Hoese, G.B., S.W. Heads, J.K. Krejca, J. Jacoby, A.E. Beveridge, K.D. Hager, M.E. Slay, **C.M. Slay**, and S.J. Taylor. 2012. 2011-2012 biospeleological expeditions to the Toledo District, Belize. 2012 National Speleological Society Convention. 25-29 June 2012. Lewisburg High School, Lewisburg, West Virginia. (Oral presentation)
Slay, C.M. and T. Ono. 2011. Activities of The Sustainability Consortium in the Food, Beverage, and Agriculture sector. LCA XI Conference, Instruments for green futures markets. Oct 4-6, 2011. Navy Pier, Chicago, Illinois.

Taylor, S.J., M.E. Slay, G.B. Hoese, J.K. Krejca, **C.M. Slay**, and J. Jacoby. 2011. The cave fauna of Toledo District of Belize: a preliminary assessment. 2011 National Speleological Society Convention. 18-22 July 2011. Glenwood Springs High School, Glenwood Springs, Colorado. (Oral presentation)

Slay, C.M., and K.G. Smith. 2010. Managing for early successional birds in Connecticut. Power of Partnerships: Bird Conservation Conference in the Northeast. October 19-21, Radisson Hotel, Plymouth, Massachusetts. (given by K.G. Smith)

C.M. Slay and K.G. Smith. 2008. Using miniature video cameras to identify nestling predators and document nesting behavior of four shrubland bird species in western Connecticut. Joint Meeting of the American Ornithologists' Union, the Cooper Ornithological Society and the Society of Canadian Ornithologist. August 4-8. Hilton Portland and Executive Towers, Portland, Oregon.

Melhart, C.A. and K.G. Smith. 2007. Reproductive success, philopatry, and predation of Prairie Warblers, Blue-winged Warblers, Indigo Buntings, and Field Sparrows in shrub successional habitat in Connecticut. Arkansas Audubon Society, Mt. Sequoyah Center, Fayetteville, AR.

Melhart, C.A. and K.G. Smith. 2005. Reproductive success, philopatry, and predation of Prairie Warblers, Blue-winged Warblers, Indigo Buntings, and Field Sparrows in shrub successional habitat in Connecticut. American Ornithologists Union, University of California at Santa Barbara, CA.

POSTER PRESENTATIONS

Harris, N., **C. Slay**, K. Lister,. F. Follett, C. Randle, J. MacCarthy, L. Sloat, A. Tyukavina, E. Glen, and J. Qiu, 2021. Advancing Spatial Information for Private Sector, Conservation, and Policy Interventions to End Global Forest Loss. American Geophysical Union (AGU), December 13-17, 2021. New Orleans, LA & online.

Slay, C.M. and K.G. Smith, 2013. Nest site selection by shrubland bird in conservation-managed fields in western Connecticut. 5th International Partners in Flight Conference and Conservation Workshop. August 25-28. Snowbird, Utah. (given by K.G. Smith)

Slay, C.M., and K.G. Smith. 2009. Apparent annual survival and philopatry rates of shrubland birds in conservation-managed fields in Connecticut. 79th Annual Meeting of the Cooper Ornithological Society. April 16-19, 2009. Tucson Doubletree Hotel. Tucson, Arizona. (given by K.G. Smith)

Slay, C.M. and K.G. Smith. 2008. Nest success of four shrubland specialists in actively maintained early successional habitat in Connecticut. 4th International Partners in Flight Conference: Tundra to Tropics. February 13-16, 2008. McAllen Convention Center. McAllen, Texas.

Tuggle, A.E., **C.A. Melhart**, M.E. Slay, and S.L. Stephenson. 2007. Cave crickets as vectors for dictyostelids in caves. 2007 Annual Meeting of the Mycological Society of America. August 6-9, 2007. Louisiana State University, Baton Rouge, Louisiana. (Poster presentation)Tuggle, A.E., C.A. Melhart, **M.E. Slay**, and S.L. Stephenson. 2006. Cave crickets as vectors for dictyostelids in caves. Spring 2006 INBRE Undergraduate Research Conference. February 24-25, 2006. University of Arkansas, Fayetteville, Arkansas. (Poster presentation)

Stephenson, S. L., M. E. Slay, **C. A. Melhart**, and A. E. Tuggle. 2006. Cave crickets as vectors of dictyostelids. Spring 2006 Idea Networks for Biomedical Research Excellence (INBRE) Undergraduate Research Conference. February 24-25, 2006. University of Arkansas. Fayetteville, Arkansas.

Melhart, C.A. and K.G. Smith. 2005. Reproductive success, philopatry, and predation of Prairie Warblers, Blue-winged Warblers, Indigo Buntings, and Field Sparrows in shrub successional habitat in Connecticut. 89th Annual Meeting of the Arkansas Academy of Science. April 8-9, 2005. Hendrix College. Conway, Arkansas.

FEATURED DOCUMENTARIES

Both documentaries feature our team's discoveries in Hawaii lava tubes and our team members.

"Living Volcanoes", NATURE, PBS, January 29, 2019

"Planet of Volcanoes", True to Nature, ZDF

SELECT POPULAR NEWS ARTICLES AND INTERVIEWS

The Sustainability Consortium Addresses Climate Change's Impact on Distribution. KUAF Scratching the Surface with Pete Hartman, October 8, 2021.
https://www.kuaf.com/post/sustainability-consortium-addresses-climate-changes-impact-distribution#stream/0

Climate change will disrupt supply chains much more than Covid — here's how businesses can prepare. CNBC, August 19, 2021.https://www.cnbc.com/2021/08/19/climate-change-supply-chain-disruptions-how-to-prepare.html

Sustainability and Resiliency in Times of Uncertainty. Walton MBA Industry Insights. May 11, 2020.
https://mbainsider.uark.edu/sustainability-and-resiliency-in-times-of-uncertainty-with-dr-christy-melhart-slay/
Agriculture Drove Recent Record-Breaking Tree Cover Loss, Nancy Harris, Thailynn Monroe, Elizabeth Dow Goldman, **Christy Slay,** and Forrest Follet. World Resources Institute. February 21, 2020.
https://www.wri.org/blog/2020/02/agriculture-drove-recent-record-breaking-tree-cover-loss

Mick Jagger wants you to stop throwing away your plastic cups. Jason Margolis, Public Radio International, The World, July 2019. https://www.pri.org/stories/2019-07-22/mick-jagger-wants-you-stop-throwing-away-your-plastic-cups?fbclid=IwAR2kPKMlMX5IctuKRHZqnxLG0BtKi4nydcwE0FnY3uvDWVIi2Z0vseMW5yQ

Starbucks tries to save 6 billion cups a year from the trash ... with help from McDonald's, Jason Margolis, Public Radio International, The World, August 13, 2018. https://www.pri.org/stories/2018-08-13/starbucks-tries-save-6-billion-cups-year-trash-help-mcdonalds

Global Forest Loss- Who is in the Driver's Seat. **Slay, C.M**. and P. Curtis. Sept.28, 2018. LeonardoDiCaprio Foundation.org

PUBLISHED SCIENTIFIC PHOTOGRAPHY

Slay, M.E. and C.M. Slay. 2008. An immature *Nesidiolestes sp.* (Hemiptera: Reduviidae) A Hawaiian cave thread legged bug from the Big Island of Hawaii. American Entomologist. 54:45.