

Jonathan L. Deenik
College of Tropical Agriculture and Human Resources
Tropical Plant and Soil Sciences

FTE Distribution: 25% I; 25% R; 50% E

Education

<u>Degree</u>	<u>University</u>	<u>Major</u>
Bachelors	College of Wooster	Art History/History
Masters	University of Hawaii	Soil Science
PhD	University of Hawaii	Soil Science

Professional Appointments

<u>Title</u>	<u>Employer</u>	<u>Dates Employed</u>
Department Chair	University of Hawaii at Mānoa	2019-present
Specialist	University of Hawaii at Mānoa	2014-present
Associate Specialist	University of Hawaii at Mānoa	2008-2014
Assistant Specialist	University of Hawaii at Mānoa	2003-2008

Courses Taught

Course Number and Title (credits)

TPSS 304 Fundamentals of Soil Science (4)

TPSS/NREM 450 Nutrient Mangement in agroecosystems (4)

Publications (reverse chronological order)

Book Chapters

Frazier, A.G., Deenik, J.L., Fugii, N.D., Funderbunk, G.R., Giambelluca, T.W., Giardina, C.P., Helweg, D.A., Keener, V.W., Mair, A., Marra, J.J., McDaniel, S., Ohye, L.N., Oki, D.S., Parsons, E.W., Strauch, A.M., and Trauernicht, C. 2019. Managing effects of drought in Hawaii and U.S. Affiliated Pacific Islands. *In* Vose, James M.; Peterson, David L.; Luce, Charles H.; Patel-Weynand, Toral, eds. Effects of drought on forests and rangelands in the United States: translating science into management responses. Gen. Tech. Rep. WO-98. Washington, DC: U.S. Department of Agriculture, Forest Service, Washington Office. 95-121.

Giardina, C.P., Mackenzie, R.A., and Deenik J.L. 2019. Regional Summary: Hawaii and U.S. Affiliated Pacific Islands. *In* Forest and Rangeland Soils of the United States Under Changing Conditions: A Comprehensive Science Synthesis. USDA Forest Service Sustainable Forest Management General Technical Report

Conference Proceedings

Lam, KL., Susan E. Crow, Kekuhi Keali‘ikanaka‘ole, Manaiakalani Kalua, Pauline K. K. Navales, Nicholas John Navales, Jonathan L. Deenik, John W Creswell, Michael Kantar, Tai McClellan Maaz, Kamuela Enos, Kūha‘o Zane, Jason Edward Lewis, Daniel Richardson¹ and Tanner B. Beckstrom 2023. A Mixed Methods Approach to Understanding Soil Genesis: The Pu‘u ‘ōhi‘a Soil in Mānoa, Hawai‘i. Soil Science Society of America International Soils Meeting, St. Louis, MI, Oct 29-Nov1, 2023.

Kiehl, Kenneth D, Mitchell K Loo, Christine J. Tallamy-Glazer, Tai McClellan Maaz, Susan E. Crow and Jonathan L. Deenik. 2023. Sol Protein: A Replacement for PMN? Soil Science Society of America International Soils Meeting, St. Louis, MI, Oct 29-Nov1, 2023.

Maaz, Tai McClellan, , Susan E. Crow, Jonathan L. Deenik, Kenji Loo, , Christine J. Tallamy-Glazer, and Tanner B. Beckstrom. 2023. Insights from Machine Learning with Mid-Infrared Spectroscopy in Hawaii Soil Health Modeling and Assessment. Soil Science Society of America International Soils Meeting, St. Louis, MI, Oct 29-Nov1, 2023.

Kenji Loo, Jonathan Deenik, Tai Maaz, Susan Crow, Johannie Rivera-Zayas, Christine Tallamy-Glazer, Aleric Krenz, Sebastian Church, Kristina Estrada, and Ken Kiehl. 2023. Farmer-driven implementation of soil health management systems (SHMS) adapted to diverse cropping systems in tropical and subtropical island environments. 78th SWCS International Annual Conference, Des Moines IA, August 6-9, 2023.

Sebastian Church, Jonathan Deenik, Susan Crow, Tai Maaz, Johannie Rivera-Zayas, Andrea Kawabata, Joshua Silva, Jensen Uyeda, and David Sotamayor-Ramirez. 2022. Farmer-driven implementation of soil health

- management systems (SHMS) adapted to diverse cropping systems in tropical and subtropical island environments. 77th SWCS International Annual Conference, Denver CO, July 31-August 3, 2022.
- Vizka, E., J.L. Deenik, and SE Crow. 2020. Climate-wise Management: Soil Mineralogy's Primary Influence on Soil Health in Hawai'i. AGU Fall Meeting, Online Dec 1 – Dec 17, 2020.
- Lam, K., J.L. Deenik, S. Bateni, and Y.P. Tsang. 2019. Characterizing soil-water relations to improve irrigation practices in Hawai'i's agricultural systems. Poster presentation. Student Research Symposium, College of Tropical Agriculture and Human Resources and College of Engineering, University of Hawaii at Manoa, April 15, 2019.
- Pitts, J., J. L. Deenik, N. Nguyen, and S. Khanal. 2019. Turning waste into resources: Anaerobic digestate's potential as a biofertilizer in Hawaii. Poster presentation. Student Research Symposium, College of Tropical Agriculture and Human Resources and College of Engineering, University of Hawaii at Manoa, April 15, 2019.
- Deenik, J.L. 2019. Soil diversity and agricultural adaptation across Micronesia. Proceedings of the Western Region Nutrient Management Conference, Vol. 13, Reno, NV, March 7–8, 2019.

Refereed Journal Publications

- Autufuga, D; Quintus, S; Yoo, K; Day, S; Huebert, J; Deenik, J; Lincoln, NK. 2023. Distribution of Soil Nutrients and Ancient Agriculture on Young Volcanic Soils of Ta'u, American Samoa. *Soil Systems* 7(2) 10.3390/soilsystems7020052
- Dela Cruz, R, Novotny, R, Wilkens, L, Shvetsov, YB, Yamanaka, A, Butel, J, Alague, T, Coleman, P, Shallcross, L, Deenik, J, Mapa, VLR, Boushey, C, Fleming, T. 2023. Diet Quality of Young Children in the US-Affiliated Pacific's Children's Healthy Living (CHL) Program. *Journal of the Academy of Nutrition and Dietetics*, <https://doi-org.eres.library.manoa.hawaii.edu/10.1016/j.jand.2023.08.003>
- Hingle, M; Short, E; Aflague, T; Boushey, C; Butel, J; Coleman, P; Deenik, J; Fleming, T; Olfert, M; Shallcross, L; Wilkens, LR; Novotny, R. 2023. Food Security is Associated with Higher Diet Quality Among Children of the US-Affiliated Pacific Region. *Journal of Nutrition* 153(3)848-856 DOI 10.1016/j.tjnut.2023.01.015.
- Yamanaka, AB; Strasburger, S; Chow, C; Butel, J; Wilkens, L; Davis, JD; Deenik, J; Shallcross, L; Novotny, R. 2023. Food and Physical Activity Environment in the US-Affiliated Pacific Region: The Children's Healthy Living Program. *Journal of Nutrition Education and Behavior*. 55(2)96-104 DOI 10.1016/j.jneb.2022.08.009
- Maaz, T.M., R H. Heck, C T Glazer, M K. Loo, J Rivera Zayas, A Krenz, T Beckstrom, S E. Crow, J L. Deenik. 2023 Measuring the immeasurable: A structural equation modeling approach to assessing soil health, *Science of The Total Environment*, Volume 870, DOI [10.1016/j.scitotenv.2023.161900](https://doi.org/10.1016/j.scitotenv.2023.161900)
- Crow, S., Hubanks, H., Deenik, J., Maaz, T., Glazer, C.T., Vizka, E., Rivera-Zayas, J., 2023. Legacy of Intensive Agricultural History in the Health of (Sub)Tropical Landscapes. *Frontiers in Environmental Science* 10:991262.doi: 10.3389/fenvs.2022.991262.
- Wells, JM; Crow, SE; Sierra, CA; Deenik, JL; Carlson, KM; Meki, MN; Kiniry, J. 2022. Edaphic controls of soil organic carbon in tropical agricultural landscapes. *SCIENTIFIC REPORTS* 12(1) 10.1038/s41598-022-24655-y
- Novotny, R; Yamanaka, AB; Dela Cruz, R; Strasburger, S; Boushey, CJ; Butel, J; Esquivel, M Aflague, TF; Fleming, T; Coleman, P; Deenik, J; Shallcross, L; Wilkens, LR. 2022. Food Group, Macronutrient Intake, and Metabolic Status in the US-Affiliated Pacific's Children's Healthy Living (CHL) Program. *Journal of Nutrition* 152(12):2898-2912 DOI 10.1093/jn/nxac173
- Dela Cruz, Rica, Wolfe, Eric, Yonemori, Kim M., Fialkowski, Marie K., Wilkens, Lynne R., Coleman, Patricia, Lameko-Mua, Sunema, Johnson, Emihner, Gilmatam, Daisy, Sigrah, Cecilia, Shomour, Moria, Remengesau, Shelley, Alfred, Julia, Acosta, Mark, Ettienne, Reynolette, Deenik, Jonathan, Aflague, Tanisha F., Nelson, Randall, Salazar, Kristina Abello, Novotny, Rachel, Boushey, Carol J. 2022. Consumption of Traditional Fruits and Vegetables among Children in the US-Affiliated Pacific Region. *Current Developments in Nutrition*, 6(7):1-7 <https://doi-org.eres.library.manoa.hawaii.edu/10.1093/cdn/nzac101>
- Dela Cruz, R., Eric Wolfe, KM Yonemori, MK Fialkowski, LR Wilkens, P Coleman, S Lameko-Mua, E Johnson, D Gilmatam, C Sigrah, M Shomour, S Remengesau, J Alfred, M Acosta, R Ettienne, J Deenik, TF Aflague, R Nelson, K Abello Salazar, R Novotny, and CJ Boushey. 2022. Consumption of Traditional Fruits and Vegetables among Children in the US-Affiliated Pacific Region, *Current Developments in Nutrition*, Volume 6, Issue 7, July 2022, nzac101, <https://doi.org/10.1093/cdn/nzac101>.

- Yamanaka, A.B., Davis, J.D., Wilkens, L.R., Hurwitz, E.L., Fialkowski, M.K., Deenik, J., Guerrero, R.T., Novotny, R. 2021. "Determination of Child Waist Circumference Cut Points for Metabolic Risk Based on Acanthosis Nigricans, the Children's Healthy Living Program" *Preventing Chronic Disease* 18
DOI:10.5888/pcd18.210021
- Reppun, F., Deenik, J., Martin, J., Hoy, C. 2021. "Effects of fresh and anaerobically digested algae (*G. salicornia*) as soil amendments on yield and nutrient concentrations of Pak Choy" *Agroecology and Sustainable Food Systems*. 45(9):1270-1299 DOI:10.1080/21683565.2021.1917470
- Jamison, J., Khanal, S.K., Nguyen, N. H. Deenik, J.L. 2021. "Assessing the Effects of Digestates and Combinations of Digestates and Fertilizer on Yield and Nutrient Use of *Brassica juncea* (Kai Choy)" *Agronomy* 11, no. 3:509. <https://doi.org/10.3390/agronomy11030509>
- Maaz, T.M., W.C. Hockaday, J.L. Deenik. 2021. Biochar Volatile Matter and Feedstock Effects on Soil Nitrogen Mineralization and Soil Fungal Colonization. *Sustainability* 13, 2018. <https://doi.org/10.3390/su13042018>
- Yu, J., Pavia, M.J., Deem, L.M., Crow, S.E., Deenik, J.L., and Penton, C. 2020. DNA-Stable Isotope Probing Shotgun Metagenomics Reveals the Resilience of Active Microbial Communities to Biochar Amendment in Oxisol Soil. *Frontiers in Microbiology*, 11:587972, doi: 10.3389/fmicb.2020.587972
- Reppun, F., Syvertsen, J., Martin, J., Deenik, J., and Hoy, C. 2020. Soil management practices of farmers in the Kaneohe Bay watershed and potential for implementing algae-based soil amendments. *Agroecology and Sustainable Food Systems*, DOI: 10.1080/21683565.2020.1813233
- Winter, K. B., Y. M. Rii, F. A. W. L. Reppun, K. DeLaforge Hintzen, R. A. Alegado, B. W. Bowen, L. L. Bremer, M. Coffman, J. L. Deenik, M. J. Donahue, K. A. Falinski, K. Frank, E. C. Franklin, N. Kurashima, N. Kekuewa Lincoln, E. M. P. Madin, M. A. McManus, C. E. Nelson, R. Okano, A. Olegario, P. Pascua, K. L. L. Oleson, M. R. Price, M. J. Rivera, K. S. Rodgers, T. Ticktin, C. L. Sabine, C. M. Smith, A. Hewett, R. Kaluhiwa, M. Cypher, B. Thomas, J.-A. Leong, K. Kekuewa, J. Tanimoto, K. Kukea-Shultz, A. Kawelo, K. Kotubetey, B. J. Neilson, T. S. Lee and R. J. Toonen. 2020. Collaborative research to inform adaptive comanagement: a framework for the He'eia National Estuarine Research Reserve. *Ecology and Society* 25 (4):15. [online] URL: <https://www.ecologyandsociety.org/vol25/iss4/art15/>
- Winter, K, N Lincoln, F Berkes, R Alegado, N Kurashima, K Frank, P Pascua, Y Rii, F Reppun, I Knapp, W McClatchey, T Ticktin, C Smith, E Franklin, K Oleson, M Price, M McManus, M Donahue, K Rodgers, B Bowen, C Nelson, B Thomas, J Leong, E Madin, MA Rivera, K Falinski, L Bremer, JL Deenik, S Gon III, B Neilson, R Okano, A Olegario, b Nyberg, AH Kawelo, K Kotubetey, JK Kukea-Shultz, R Toonen. 2020. Ecomimicry in Indigenous Resource Management: Optimizing ecosystem services to achieve resource abundance with examples from Hawai'i. *Ecology and Society* 25(2):26 <https://doi.org/10.5751/ES-11539-250226>
- Yu, J., L.M. Deem, S.E. Crow, J.L. Deenik, and C.R. Penton. 2019. Comparative metagenomics reveals enhanced nutrient cycling potential after 2 years of biochar amendment in a tropical Oxisol. *Appl Environ Microbiol* 85:e02957-18. <https://doi.org/10.1128/AEM.02957-18>.

Extension Publications

- Deenik, J.L. and Duponcheel, L. 2017. Soils and Agriculture on Tinian. Cooperative Extension Service Publication, CTAHR, SCM-34, pp. 8.
- Reppun, F., J.H.S. Silva, K. Wong, and J.L. Deenik. 2017. A Soil Phosphorus Primer for Hawaiian Soils. Cooperative Extension Service Publication, CTAHR, SCM-33, pp. 5.
- Fukumoto, G.K., M.S. Thorne, J.H. Silva, J. Deenik, and M.H. Stevenson. 2016. Suitability Map for Forage-Finished Beef Production Using GIS Technology: Kauai County. Cooperative Extension Service Publication, CTAHR, PRM-10, pp. 6.
- Fukumoto, G.K., M.S. Thorne, J.H. Silva, J. Deenik, and M.H. Stevenson. 2016. Suitability Map for Forage-Finished Beef Production Using GIS Technology: Maui County. Cooperative Extension Service Publication, CTAHR, PRM-9, pp. 8.
- Fukumoto, G.K., J. Deenik, M. Hura, and M. Kostka. 2016. Piggery Impacts to Water Quality of Streams in Pohnpei, Federated States of Micronesia. Cooperative Extension Service Publication, CTAHR, WI-3, pp. 9.
- Fukumoto, G.K., M.S. Thorne, J.H. Silva, and J. Deenik. 2015. Suitability Map for Forage-Finished Beef Production Using GIS Technology: Hawai'i Island. Cooperative Extension Service Publication, CTAHR, PRM-7, pp. 6.
- Deenik, J.L., C. R. Penton, and G.L. Bruland. 2013. Nitrogen cycling in flooded taro agriculture. Cooperative Extension Service Publication, CTAHR, SCM-31, pp. 8.
- Kawabata, A.F., J.L. Deenik, R.T. Hamasaki, J. Lichty, and S.T. Nakamoto. 2011. Acidification of volcanic ash

soils from Maui and Hawaii Island for blueberry and tea production. Cooperative Extension Service Publication, CTAHR, AS-5, pp. 7.

Deenik, J., and A.T. McClellan. 2007. Soils of Hawaii. Cooperative Extension Service Publication, CTAHR, SCM-20, pp. 12.

Deenik, J., R. Hamasaki, R. Shimabuku, and R. Uchida. 2007. Phosphorus fertilizer management for romaine lettuce grown in fertile volcanic ash soils of Hawaii. Cooperative Extension Service Publication, CTAHR, SCM-19, pp. 3.

Deenik, J., R. Hamasaki, R. Shimabuku, S. Nakamoto, and R. Uchida. 2006. Phosphorus fertilizer management for head cabbage. Cooperative Extension Service Publication, CTAHR, SCM-16, pp. 6.

Deenik, J. 2006. Nitrogen mineralization potential in important agricultural soils of Hawaii. Cooperative Extension Service Publication, CTAHR, SCM-15, pp. 5.

Creative Works (i.e., Extension Videos, Websites, Blogs, Creative Designs and Exhibitions, etc.)

Graduate Students

<u>Category</u>	<u>Current Number of Students</u>	<u>Number Graduated (Career)</u>
Chair of Master's Committees	1	10
Chair of PhD Committees		
Member of Master's Committees	3	14
Member of PhD Committees	3	8
Undergraduate mentees	2	26

Grant Support

Title of Grant: "Microbial Indicators of Soil Health and Plant Productivity for Hawaii Agroecosystems"

Source of Grant: USDA-ARS NACA

Dollar Value: \$172,645

Dates of Grant: 8/1/2023 – 7/31/2025

Role: PI

Title of Grant: "Investigating Short Range Order Material as a DSP and Its Capacity to Stabilize SOC, SRO/SOC Dynamics in a Warming Ecosystem"

Source of Grant: USDA-NRCS

Dollar Value: \$499,553

Dates of Grant: 10/1/2023 – 12/31/2027

Role: PI

Title of Grant: "Soil Health Fingerprinting: Rapidly Predicting Soil Health in a Diversity of Soils Using Machine Learning"

Source of Grant: USDA-NIFA

Dollar Value: \$649,570

Dates of Grant: 9/15/2023 – 9/14/2028

Role: Co-PI

Title of Grant: "Hawai'i climate smart commodities: A portfolio approach to equitably scaling the agriculture sector"

Source of Grant: USDA-NRCS

Dollar Value: \$10,647,990

Dates of Grant: 1/2023 – 12/2028

Role: Co-PI

Title of Grant: "Developing a Web-Based Mapping Platform for Cropland Rating and Optimum Crop Selection"

Source of Grant: HDOA

Dollar Value: \$199,218

Dates of Grant: 10/1/2022 – 9/30/2024
Role: Co-PI

Title of Grant: “Science of Soil Health”
Source of Grant: USDA-NRCS
Dollar Value: \$140,973
Dates of Grant: 10/1/2020 – 9/30/2023
Role: Co-PI

Title of Grant: “Fungal-Bacterial Interactions: Bridging soil niches in regulating carbon and nitrogen processes”
Source of Grant: US Department of Energy
Dollar Value: \$3,400,000
Dates of Grant: 10/1/2022 – 9/30/2025
Role: Co-PI

Title of Grant: Producer-driven implementation of Soil Health Management Systems adapted to diverse cropping systems in tropical and subtropical island regions
Source of Grant: USDA-NRCS
Dollar Value: \$1,961,218
Dates of Grant: 5/1/2021-4/30/2024
Role: PI

Title of Grant: An emergent soil health framework for agroecosystems in underrepresented tropical/subtropical islands or regions
Source of Grant: USDA-NIFA
Dollar Value: \$499,000
Dates of Grant: 1/2020-12/2023
Role: Co-PI

Title of Grant: Forecasting daily reference evapotranspiration for water resources conservation and sustainable agriculture.
Source of Grant: USDA-NRCS CIG
Dollar Value: \$900,000
Dates of Grant: 1/2020-12/2023
Role: Co-PI

Title of Grant: A Hawaii Soil Health Index to Guide Farmer Adoption of Sustainable Management Practices
Source of Grant: WSARE
Dollar Value: \$25,000
Dates of Grant: 12/2019 – 12/2021
Role: Co-PI

Title of Grant: Implementing Soil Management Strategies and Soil Testing Technologies to Reduce Nutrient Loading for Intensive Farms on Oahu
Source of Grant: Hawaii State Department of Health
Dollar Value: \$349,518
Dates of Grant: 8/2019 – 7/2022
Role: PI

Title of Grant: Putting the farmer in the driver’s seat: integrated web tool for improved soil health and carbon assessment monitoring and planning
Source of Grant: USDA-NIFA
Dollar Value: \$449,968
Dates of Grant: 1/2018 – 1/2022
Role: Co-PI

Title of Grant: Capacity Building for Cooperative Extension in Micronesia to Reduce Pacific Island Food System Vulnerability to Climate Variability

Source of Grant: WSARE

Dollar Value: \$74,858

Dates of Grant: 6/2018 – 6/2020

Role: Co-PI

Title of Grant: Crop-Specific Fertilizer Schedules to Improve Nitrogen Fertilizer Management for High-Value, Short-Season Vegetables and Herbs on Oahu

Source of Grant: USDA-HATCH

Dollar Value: \$78,112

Dates of Grant: 10/2018 – 10/2020

Role: Co-PI

Title of Grant: Anaerobically-digested slurry (digestate) and digestate-derived biochar applications as fertilizers for organic farming

Source of Grant: USDA-HATCH

Dollar Value: \$79,723

Dates of Grant: 10/2017 – 10/2019

Role: PI

Title of Grant: Land Suitability Analysis for Crop Growth in Hawaii

Source of Grant: USDA-HATCH

Dollar Value: \$70,000

Dates of Grant: 10/2017 – 10/2019

Role: Co-PI

Title of Grant: Building climate knowledge in the cooperative extension service to increase capacity for climate change adaptation and mitigation among Pacific Island agricultural systems

Source of Grant: OIA Technical Assistance Program

Dollar Value: \$121,371

Dates of Grant: 4/2017 – 4/2019

Role: Co-PI

Title of Grant: Engaging community to restore wetland kalo and study water recharge

Source of Grant: Department of Land and Natural Resources

Dollar Value: \$74,293

Dates of Grant: 7/2017 – 6/2018

Role: Co-PI

Title of Grant: Real-time Optimization of Irrigation Scheduling for Farmlands in Hawaii, Guam, and American Samoa

Source of Grant: USDA-NRCS CIG

Dollar Value: \$979,927

Dates of Grant: 10/2016 – 9/2020

Role: Co-PI

Title of Grant: Hawaii crop suitability model expansion

Source of Grant: Ulupono Initiative

Dollar Value: \$12,087

Dates of Grant: 12/2016 – 5/2017

Role: Co-PI

Title of Grant: Measureable Soil Quality

Source of Grant: USDA-HATCH

Dollar Value: \$79,442

Dates of Grant: 10/2016 – 9/2018

Role: Co-PI

Presentations at Conferences

Title: Soil protein: a replacement for PMN?

Authors: Kenneth D Kiehl*, Mitchell K Loo, Christine J. Tallamy-Glazer, Tai McClellan Maaz, Susan E. Crow and Jonathan L. Deenik

Name of Conference: International annual meeting SSSA

Location:, St. Louis MI Oct 29-Nov1, 2023

Title: A Mixed Methods Approach to Understanding Soil Genesis: The Pu‘u ‘ōhi‘a Soil in Mānoa, Hawai‘i

Authors: Kristy Izumi Lam, Susan E. Crow, Kekuhi Keali‘ikanaka‘ole, Manaiakalani Kalua, Pauline K. K. Navales, Nicholas John Navales, Jonathan L. Deenik, John W Creswell, Michael Kantar, Tai McClellan Maaz, Kamuela Enos, Kūha‘o Zane, Jason Edward Lewis, Daniel Richardson and Tanner B. Beckstrom

Name of Conference: International annual meeting SSSA

Location:, St. Louis MI Oct 29-Nov1, 2023

Title: Insights from Machine Learning with Mid-Infrared Spectroscopy in Hawaii Soil Health Modeling and Assessment

Authors (put an asterisk on the presenter): Tanner B. Beckstrom*, Tai McClellan Maaz, Michael Benjamin Kantar, Jonathan L. Deenik, Christine J. Tallamy-Glazer, Qi Chen and Susan E. Crow

Name of Conference: International annual meeting SSSA

Location:, St. Louis MI Oct 29-Nov1, 2023

Kenji Loo, Jonathan Deenik, Tai Maaz, Susan Crow, Johannie Rivera-Zayas, Christine Tallamy-Glazer, Aleric Krenz, Sebastian Church, Kristina Estrada, and Ken Kiehl. 2023. Farmer-driven implementation of soil health management systems (SHMS) adapted to diverse cropping systems in tropical and subtropical island environments. 78th SWCS International Annual Conference, Des Moines IA, August 6-9, 2023.

Sebastian Church, Jonathan Deenik, Susan Crow, Tai Maaz, Johannie Rivera-Zayas, Andrea Kawabata, Joshua Silva, Jensen Uyeda, and David Sotamayor-Ramirez. 2022. Farmer-driven implementation of soil health management systems (SHMS) adapted to diverse cropping systems in tropical and subtropical island environments. 77th SWCS International Annual Conference, Denver CO, July 31-August 3, 2022.

Vizka, E., Deenik, JI, Hubanks, H, Crow, SE. 2020. Climate-wise Management: Soil Mineralogy's Primary Influence on Soil Health in Hawai‘i. American Geophysical Union, Fall Meeting December 2020.

Title: Characterizing soil-water relations to improve irrigation practices in Hawai‘i’s agricultural systems

Authors (put an asterisk on the presenter): Lam, K*, J.L. Deenik, S. Bateni, and Y.P. Tsang

Name of Conference: Student Research Symposium, College of Tropical Agriculture and Human Resources and College of Engineering

Location: University of Hawaii at Manoa

Date of Presentation: April 15, 2019

Title: Turning waste into resources: Anaerobic digestate’s potential as a biofertilizer in Hawaii

Authors (put an asterisk on the presenter): Pitts, J.*, J. L. Deenik, N. Nguyen, and S. Khanal

Name of Conference: Student Research Symposium, College of Tropical Agriculture and Human Resources and College of Engineering

Location: University of Hawaii at Manoa

Date of Presentation: April 15, 2019

Title: Towards a Hawai‘i Soil Health Index: Identifying Sensitive and Practical Indicators of Change Across Land Use and Soil Diversity

Authors (put an asterisk on the presenter): Hubanks, H.* S Crow, J Deenik

Name of Conference: Student Research Symposium, College of Tropical Agriculture and Human Resources and College of Engineering

Location: University of Hawaii at Manoa

Date of Presentation: April 15, 2019

Title: Soil diversity and agricultural adaptation across Micronesia,

Authors (put an asterisk on the presenter): Deenik, J.L.*

Name of Conference: Western Region Nutrient Management Conference

Location: Reno, NV

Date of Presentation: March 7–8, 2019

Title: Optimizing soil health and climate mitigation potential across various Hawaiian landscapes and management

Authors (put an asterisk on the presenter): Hubanks, H.*, S Crow, J Deenik

Name of Conference: Student Research Symposium, College of Tropical Agriculture and Human Resources and
College of Engineering

Location: University of Hawaii at Manoa

Date of Presentation: April 6, 2018

Title: Optimizing soil health and climate mitigation potential across various Hawaiian landscapes and management

Authors (put an asterisk on the presenter): Hubanks, H.* S Crow, J Deenik

Name of Conference: Student Research Symposium, College of Tropical Agriculture and Human Resources and
College of Engineering

Location: University of Hawaii at Manoa

Date of Presentation: April 6, 2018

Title: Atolls to high volcanoes: soil diversity and agricultural adaptation across Micronesia.

Authors (put an asterisk on the presenter): Deenik, JL*

Name of Conference: William A. "Tex" Frazier Lecture Annual Conference American Society of Horticultural
Science

Location: Waikaloa Hilton, Waikaloa, Hawaii

Date of Presentation: Sept 19, 2017

Title: A Framework to Improve Nitrogen Fertilizer Use Efficiency in Intensive Vegetable Systems of Hawaii

Authors (put an asterisk on the presenter): Loo, Mitchell*, Jensen Uyeda, Michael D. Cahn, and Jonathan L. Deenik

Name of Conference: Annual Conference American Society of Horticultural Science

Location: Waikaloa Hilton, Waikaloa, Hawaii

Date of Presentation: Sept 19, 2017

Title: Towards a Hawai'i soil health index: water stable aggregates and carbon pools following change from
conventional to conservation management

Authors (put an asterisk on the presenter): Hubanks, H.*, J Deenik, S Crow

Name of Conference: Hawaii Agriculture Conference

Location: Honolulu, Hawaii

Date of Presentation: Aug. 29, 2017

Title: Soil Nitrate Quick Test Offers Accurate, Practical, Rapid, and Cost-effective Method for Soil Nitrate
Determination in Hawaii Commercial Vegetable Production

Authors (put an asterisk on the presenter): M.K. Loo*, Crow, S, Ryals R, Yost R, Deenik J

Name of Conference: : Student Research Symposium, College of Tropical Agriculture and Human Resources and
College of Engineering

Location: University of Hawaii at Manoa

Date of Presentation: April 7, 2017

Title: Linking Research and Extension; On-Farm Impacts of a Nitrogen Fertilizer Management Framework

Authors (put an asterisk on the presenter): M.K. Loo*, Uyeda, J, Cahn, M, Ryals, R, Yost R, Deenik J

Name of Conference: : Student Research Symposium, College of Tropical Agriculture and Human Resources and
College of Engineering

Location: University of Hawaii at Manoa

Date of Presentation: April 7, 2017

Title: Towards a Hawai'i soil health index: water stable aggregates and carbon pools following change from conventional to conservation management

Authors (put an asterisk on the presenter): Hubanks, H. *, J Deenik, S Crow

Name of Conference: : Student Research Symposium, College of Tropical Agriculture and Human Resources and College of Engineering

Location: University of Hawaii at Manoa

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Title: Preliminary assessment of the Solvita –CO₂ test in characterizing management effects on soil biological activity in some soils of Hawaii

Authors (put an asterisk on the presenter): Deenik, J.L.* and M.K. Loo

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