

Catherine Keske, Ph.D.

EDUCATION

2006 Doctor of Philosophy, Agricultural and Resource Economics, Colorado State University
2003 Master of Science, Mineral Economics, Colorado School of Mines
1994 Master of Science, Hearing and Speech Sciences, Vanderbilt University
1992 Bachelor of Science with Honors, Communication Disorders, Bowling Green State University

ACADEMIC POSITIONS

University of California, Merced (2017-present)

Professor (Step II) (2020-present); *Associate Professor* (2017-2020)
School of Engineering, Department of Management, Innovation, Sustainability, and Technology

Memorial University of Newfoundland (2014-2020)

Associate Professor (2014-2017) & *Adjunct Professor* (2017-2020)
School of Science and the Environment, Environmental Studies Program (ECON)

Denver University Sturm School of Law (2008-2017)

Adjunct Professor, Natural Resource & Environmental Law Program

Colorado State University, College of Agriculture (2006-2012)

Associate Professor Special Appointment (soft money), Dept. of Soil and Crop Sciences 2012
Assistant Professor Special Appointment (soft money), Dept. of Soil and Crop Sciences 2006-2011

University of Colorado-Boulder (2011-2018)

Research Scientist & Affiliate, Institute of Arctic and Alpine Research (INSTAAR)

Colorado School of Mines & University of Northern Colorado (2003-2006)

Adjunct Professor and Per Course Instructor

INDUSTRY AND GOVERNMENT POSITIONS

1996-2001 Great Nordic Companies, Minnetonka, MN
National Manager of Technical Training & Southwest Area Business Manager

1994-1995 Clinical Audiologist, Nashville, TN Veteran's Administration Hospital

PUBLICATION AND GRANT SUMMARY (August 2022)

- Refereed articles published in peer-reviewed journals or in law reviews: 46
- Refereed, peer-reviewed published books: 4; Book chapters: 25
- Refereed, peer-reviewed published Cooperative Extension and technical reports: 63
- Refereed, peer-reviewed abstracts, and non-refereed, scientific, technical, and outreach bulletins: 99
- Funded grants: 64
 - >\$47,000,000 as PI or Co-PI, 2005-2022
 - > \$32,500,000 as Collaborator/Senior Personnel, 2005-2022
 - 42 External – PI: 10; Co-PI: 22; Collaborator or Sr. Personnel: 5; Workgroup/Research Clusters: 5
 - 22 PI/Co-PI of university internal research and teaching grants

PUBLISHED WORKS

Please note: Asterisks indicate student or post-doctoral supervisees (*)

Refereed Articles Published in Peer-Reviewed Journals or in Law Reviews:

46) Kagan, C.R., D.P. Arnold, David J. Cappelleri, **C.M. Keske**, and Kevin T. Turner. 2022. Special Report: The Internet of Things for Precision Agriculture (IoT4Ag). *Computers and Electronics in Agriculture*. Volume 126, May 2022, 106742. <https://doi.org/10.1016/j.compag.2022.106742>

45) Nematian*, M., **C. Keske**, and J. Ng'ombe*. 2021. A technoeconomic analysis of biochar production and the bioeconomy for orchard biomass. Special Issue: Waste and Circular Economy: transition, policies, and law. *Waste Management Journal*. 135C, 467-477. DOI: <https://doi.org/10.1016/j.wasman.2021.09.014> Available at: <https://www.sciencedirect.com/science/article/pii/S0956053X21005031>

44) **Keske, C.** 2021. Boreal agriculture cannot be sustainable without food sovereignty. *Frontiers in Sustainable Food Systems, Section Climate-Smart Food Systems, Topic Sustainable and Climate Smart Agriculture in the Boreal and Arctic Regions*. DOI: 10.3389/fsufs.2021.673675 Available at: <https://www.frontiersin.org/articles/10.3389/fsufs.2021.673675/full>

43) **Keske, C.**, P. Arnold*, C.T Bastian, and J.E. Cross. 2021. Does conservation ethic include intergenerational bequest? A random utility model analysis of conservation easements and agricultural landowners. *Rural Sociology*, 86(4), 703-727. Early view published online February 3, 2021. Available at: <https://onlinelibrary.wiley.com/doi/10.1111/ruso>

42) Bastian, C., **C. Keske**, D. Hoag, and D. McLeod. 2021. Comment on Eaton et al.'s reconceptualization of economic dependence in "Trouble with sense of place in working landscapes". *Society and Natural Resources Journal*, 34(9), 1286-1292. Early view published online September 27, 2020. DOI: <https://doi.org/10.1080/08941920.2020.1823542>

41) **Keske, C.M.H.**, T. Godfrey*, D. Hoag, and J. Abedin. 2020. Economic feasibility of biochar and agriculture coproduction from Canadian black spruce forest. *Food and Energy Security*. 9(1), e188. DOI: <http://dx.doi.org/10.1002/fes3.188>. Image of study region by Eldred Allen published as issue cover (e00202): <https://onlinelibrary.wiley.com/doi/abs/10.1002/fes3.202>

40) **Keske, C.** 2019. Up in the air: will California's methane gas mitigation laws and policies lower global greenhouse gas emissions? *Vermont Journal of Environmental Law*, 21(4), 492-505. Available at: <http://vjel.vermontlaw.edu/publications/air-will-californias-methane-gas-mitigation-laws-policies-lower-globalgreenhouse-emissions/>

39) Hou, L.*, **C.M. Keske**, D. Hoag, T. Balezentis, and X. Wang. 2019. Abatement costs of emissions from burning maize straw in major maize regions of China: Balancing food security with the environment. *Journal of Cleaner Production*, [208(20 January)], 178-187. doi:10.1016/j.jclepro.2018.10.047 Available at: <https://www.sciencedirect.com/science/article/pii/S0959652618330610>

38) **Keske, C.**, M. Mills, T. Godfrey, L. Tanguay*, and J. Dicker*. 2018. Waste management in remote rural communities across the Canadian North: Challenges and opportunities. *Detritus Multi-disciplinary Journal for Waste and Residues*, 2, 63-77. doi: 10.31025/2611-4135/2018.13641 Available at: <https://digital.detritusjournal.com/articles/waste-management-in-remote-rural-communities-across-the-canadian-north-challenges-and-opportunities/106>.

37) **Keske, C.**, M. Mills, L. Tanguay*, and J. Dicker*. 2018. Waste management in Labrador and northern communities: opportunities and challenges. *The Northern Review*, 47, 137-170. DOI: <https://doi.org/10.22584/nr47.2018.100>

- 36) **Keske, C.M.H.**, R.P. Bixler*, C.T. Bastian, and J.E. Cross, 2017. Are population and land use changes perceived as threats to sense of place in the New West? A multilevel modeling approach. *Rural Sociology*, 82(2), 263-290. Available at: <http://onlinelibrary.wiley.com/doi/10.1111/ruso.12121/full>
- 35) Berhe*, M., D. Hoag, G. Tesfay, and **C.M.H. Keske**, 2017. Factors influencing the adoption of biogas digesters in rural Ethiopia. *Energy, Sustainability and Society, a Springer Online Journal*, 7(10), pp. 1-11. doi:10.1186/s13705-017-0112-5 Available at: <http://rdcu.be/qANR>
- 34) Berhe*, M., D. Hoag, G. Tesfay, T. Tadesse, S. Oniki, M. Kagatsume, and **C.M.H. Keske**, 2017. The effects of adaptation to climate change on income of rural communities in northern Ethiopia. *Pastoralism: Research, Policy, and Practice, a Springer Online Journal*, 7(12), DOI:10.1186/s13570-017-0084-2 Available at: <https://link.springer.com/content/pdf/10.1186%2Fs13570-017-0084-2.pdf>
- 33) Bastian, C.T., **C.M.H. Keske**, D.M. McLeod, and D.L. Hoag, 2017. Landowner and land trust agent preferences for conservation easements: Implications for sustainable land use and environmental conservation. *Landscape and Urban Planning*, 157(1), pp. 1-13. <http://dx.doi.org/10.1016/j.landurbplan.2016.05.030>
- 32(a) **Keske, C.M.H.**, J. Dare*, T. Hancock, and M. King, 2016. The connectivity of food security, food sovereignty, and food justice in boreal ecosystems: The case of Saint-Pierre and Miquelon, *Spatial Justice*, N°9 (January) special edition on food justice and agriculture. Available at: <http://www.jssj.org/issue/janvier-2016-dossier-thematique/>
- 32(b) **Keske, C.M.H.**, J. Dare*, T. Hancock, and M. King, 2016. La connexion de la sécurité alimentaire, de la souveraineté alimentaire et de la justice alimentaire dans le système boréal: le cas de Saint-Pierre et Miquelon, *Justice Spatiale*, N°9, édition spéciale sur justice alimentaire et agriculture. Traduction française: Tiffany Hancock. <http://www.jssj.org/issue/janvier-2016-dossier-thematique/>
- 31) Hou*, Lingling, D.L. Hoag, and **C.M.H. Keske**, 2015. Abatement costs of soil conservation in China's Loess Plateau: Balancing income with conservation in an agricultural system. *Journal of Environmental Management*, 149, pp. 1-8. <http://dx.doi.org/10.1016/j.jenvman.2014.09.002>
- 30) **Keske, C.M.H.**, and A. Mayer*, 2014. Visitor willingness to pay U.S. Forest Service recreation fees in New West rural mountain economies. *Economic Development Quarterly (EDQ)*, 28(1), pp. 87-100. doi:10.1177/0891242413506744
- 29) Hou*, Lingling, D.L. Hoag, **C.M.H. Keske**, and C. Lu, 2014. Sustainable value of degraded soils in China's Loess Plateau: An updated approach. *Ecological Economics*, 97, pp. 20-27. <http://dx.doi.org/10.1016/j.ecolecon.2013.10.013>
- 28) **Keske, C.M.H.**, D.L. Hoag, A. Brandess*, and J. Johnson, 2013. Is it economically feasible for farmers to grow their own fuel? A study of *Camelina sativa* produced in the western United States as an on-farm biofuel. *Biomass and Bioenergy*, 54, pp. 89-99. <http://dx.doi.org/10.1016/j.biombioe.2013.03.015>
- 27) **Keske, C.M.H.**, G. Lohman*, J. Loomis, 2013. Do respondents report willingness to pay on a per person or per group basis? A mountain recreation example. *Tourism Economics*, 19(1), pp. 133-146. <http://dx.doi.org/10.5367/te.2013.0188>
- 26) Field*J., **C.M.H. Keske**, G. Lohman Birch*, M. DeFoort, M.F. Cotrufo, 2013. Distributed bioenergy and biochar co-production: A regionally-specific case study of environmental benefits and economic impacts. *Global Change Biology (GCB) Bioenergy Special Edition on Bioenergy*, 5(1), pp. 177-191. <http://onlinelibrary.wiley.com/doi/10.1111/gcbb.12032/full>

- 25) Cropper*, E., D.M. McLeod, C.T. Bastian, **C.M.H. Keske**, D.L. Hoag, J.E. Cross, 2012. Factors affecting land trust agents' demand for conservation easements. *Journal of Regional Analysis and Policy Special Issue on Market-Based Environmental Management*, 42(2), pp. 88-103. Available at: http://www.jrap-journal.org/pastvolumes/2010/v42/v42_n2_a1_cropper_mcleod.pdf
- 24) **Keske, C.M.H.**, and G. Lohman*, 2012. Biochar: An emerging market solution for legacy mine reclamation and the environment. *Appalachian Natural Resources Law Journal*, 6(1), pp. 1-14. Available at: <http://heinonline.org/HOL/LandingPage?handle=hein.journals/anrlj6&div=4&id=&page=>
- 23) **Keske, C.M.H.**, 2012. Anaerobic digestion technology: How agricultural producers—and the environment—might profit from nuisance lawsuits. *Natural Resources Journal*, 52(2), pp. 315-336. Available at: <http://heinonline.org/HOL/LandingPage?handle=hein.journals/narj52&div=16&id=&page=>
- 22) McGaffin*, G., D.M. McLeod, C.T. Bastian, **C.M. Keske Hoag**, and D.L. Hoag, 2012. Landowner preferences for conservation easements: Responses from two intermountain states. *Journal of Farm Managers and Rural Appraisers*, 75(1), pp. 98-111. <http://purl.umn.edu/190728>
- 21) **Keske, C.M.H.**, S. Evans*, and T. Iverson, 2012. Total cost electricity pricing: A market solution for increasingly rigorous environmental standards. *The Electricity Journal*, 25(2), pp. 7-15. <http://dx.doi.org/10.1016/j.tej.2012.02.004>
- 20) Loomis, J.B., and **C.M.H. Keske**, 2012. Did the great recession reduce visitor spending and willingness to pay for nature-based recreation? Evidence from 2006 and 2009. *Contemporary Economic Policy*, 30(2), pp. 238-246. Available at: <http://onlinelibrary.wiley.com/doi/10.1111/j.1465-7287.2011.00277.x/full>
- 19) **Keske, C.M.H.**, 2011. Costs of environmental and performance attributes of the Colorado electricity sector. *The Electricity Journal*, 24(9), pp. 75-83. <http://dx.doi.org/10.1016/j.tej.2011.09.020>
- 18) **Keske, C.M.H.**, D. Hoag, and C.T. Bastian, 2011. The effect of landowner amenity rents in conservation easement policies. *Environmental Economics*, 2(3), pp. 123-130. Available at: http://www.businessperspectives.org/journals_free/ee/2011/ee_2011_03_Keske.pdf
- 17) **Keske, C.M.H.**, 2011. How lawsuits could ignite an energy market: The case of anaerobic digestion. *Environmental Law Reporter*, 41(12), pp. 11094-11100. Available at: <http://elr.info/news-analysis/41/11094/how-lawsuits-could-ignite-energy-market-case-anaerobic-digestion>
- 16) Hoag, D.L.K., **C.M.H. Keske**, and R.L. Goldbach*, 2011. Risk individuality in crisis planning: The case of gender in American agriculture. *Journal of Risk Planning and Crisis Response*, 1(1), pp. 21-28. doi:10.2991/jracr.2011.1.1.2
- 15) **Keske, C.M.H.**, D.L. Hoag, D.M. McLeod, C.T. Bastian, and M.G. Lacy, 2011. Using mixed methods research in environmental economics: The case of conservation easements. *International Journal of Mixed Methods for Applied Business and Policy Research*, 1(1), pp. 16-28. <http://hdl.cqu.edu.au/10018/57671>
- 14) Hoag, D.L.K., R. Boone, and **C.M.H. Keske**, 2011. The cost for agriculture to coexist with wildlife in Colorado. *Human Dimensions of Wildlife*, 16(5), pp. 319-329. Available at: <http://dx.doi.org/10.1080/10871209.2011.573838>
- 13) **Keske, C.M.H.**, 2011. How to value environmental and non-market goods: A guide for legal professionals. *Denver Journal of International Law and Policy*, 39(3), pp. 423-435. Available at: <http://heinonline.org/HOL/LandingPage?handle=hein.journals/denilp39&div=20&id=&page=>

- 12) Cross, J. E., **C.M.H. Keske**, M.G. Lacy, D.L.K. Hoag, and C.T. Bastian, 2011. Adoption of conservation easements among agricultural landowners in Colorado and Wyoming: The role of economic dependence and sense of place, *Landscape and Urban Planning*, 101(1), pp. 75-83. <http://dx.doi.org/10.1016/j.landurbplan.2011.01.005>
- 11) Miller, A., C.T. Bastian, D.M. McLeod, **C.M. Keske**, and D.L. Hoag. 2011. Factors impacting agricultural landowners' willingness to enter into conservation easements: A case study. *Society and Natural Resources: An International Journal*, 24(1), pp. 65-74. <http://dx.doi.org/10.1080/08941920802684146>
- 10) Laitos, J.G., and **C.M. Keske**. 2010. The right of non-use. *Journal of Environmental Law and Litigation (JELL)*, 25(2), pp. 303-384. Available at: <http://hdl.handle.net/1794/11082>
- 9) **Keske, C.M.H.**, and L.S. Smutko, 2010. Consulting communities: Using audience response system technology (ARS) to assess community preferences for sustainable recreation and tourism development. *Journal of Sustainable Tourism*, 18(8), pp. 951-970. <http://dx.doi.org/10.1080/09669582.2010.484493>
- 8) **Keske, C.M.**, D.L. Hoag, and C.T. Bastian, 2009. Can the conservation easements market evolve from emerging to efficient? *Western Economics Forum*, 8(1), pp. 7-17. <http://www.waeaonline.org/WEForum/WEF-Vol.8-No.1-Spring2009.pdf>
- 7) Loomis, J.B., and **C.M. Keske**, 2009. The economic value of novel means of ascending high mountain peaks: A travel cost demand model of Pikes Peak cog railway riders, automobile users and hikers. *Tourism Economics*, 15(2), pp. 426-436. <http://dx.doi.org/10.5367/000000009788254313>
- 6) Loomis, J.B., and **C.M. Keske**, 2009. Mountain substitutability and peak load pricing of high alpine peaks as a management tool to reduce environmental damage: a contingent valuation study. *Journal of Environmental Management*, 90(5), pp. 1751–1760. <http://dx.doi.org/10.1016/j.jenvman.2008.11.024>
- 5) **Keske, C.M.**, and J.B. Loomis, 2008. Regional economic contribution and net economic values of opening access to three Colorado Fourteeners. *Tourism Economics*, 14(2), pp. 249-262. <http://dx.doi.org/10.5367/000000008784460373>
- 4) **Keske, C.M.**, and J.B. Loomis, 2007. High economic values from high peaks of the West. *Western Economics Forum*, 6(1), pp. 34-41. Available at: <http://www.waeaonline.org/WEForum/WEF-Vol.6-No.1-Spring2007.pdf#page=37>
- 3) **Keske, C.M.**, and D.L. Hoag, 2006. A market perspective: a research group of economists asks, what are land trusts trying to preserve? *Exchange: The National Journal of Land Conservation*, 25, pp. 24-27. Available at: www.lta.org
- 2) Hoag, D.L., C.T. Bastian, **C.M. Keske**, D.M. McLeod, and A. Marshall, 2005. Evolving conservation easement markets in the West. *Western Economics Forum*, 4(1), pp. 7-14. <http://purl.umn.edu/27994>
- 1) Hoemann, H.W., and **C.M. Keske**, 1995. Proactive interference and language change in hearing adult students of American Sign Language. *Sign Language Studies*, 24, pp. 45-62. doi:10.1353/sls.1995.0016

Peer-Reviewed, Published Books:

- 4) **Keske, C. (Editor)**, 2018, *Food Futures: Growing a Sustainable Food System for Newfoundland and Labrador*. Institute of Social Economic Research (ISER) Books, now Memorial University Press. ISBN: 978-1-894725-45-3 (Paperback); 978-1-894725-46-0 (PDF)

3) Laitos, J.G., 2012, with **C. Keske** acknowledged as “primary contributing author” of *The Right of Non-Use* (Jan Laitos, Ed.), Oxford University Press. ISBN: 978-0195386066.

2) Lohman*, G., **Keske, C.M.H.**, and E.F. Kelly, 2011, *Environmental Impacts from Recreation on Colorado Fourteeners*. Lambert Academic Publishing, Saarbrücken, Germany. ISBN: 978-3-844-388091

1) **Keske, C.M.**, 2008, *Rents, Efficiency, and Incomplete Markets: The Emerging Market for Private Land Preservation and Conservation Easements*, VDM, Verlag Dr. Müller Aktiengesellschaft & Co. Publishers. ISBN: 978-3-639-06693-7

Peer-Reviewed, Refereed Chapters in Books and Edited Collections:

Keske, C., 2022, Chapter 10, Facilitating Sustainable Waste Management in a Northern Community and Resource Development Context at Happy Valley-Goose Bay, Labrador. In [*Extractive Industry and the Sustainability of Canada's Arctic Communities*](#) (C. Southcott, F. Abele, D. Natcher, B. Parlee, Eds.), McGill-Queen's Press, pp. 242-281. ISBN 9780228011552

Keske, C. (Editor), 2018, *Food Futures: Growing a Sustainable Food System for Newfoundland and Labrador*. Institute of Social Economic Research (ISER) Books. ISBN: 978-1-894725-45-3 (Paperback); 978-1-894725-46-0 (PDF). Chapter contributions within edited collection:

Keske, C., 2018, Introduction: The Promise and Precariousness of Newfoundland and Labrador's Food System. In *Food Futures: Growing a Sustainable Food System for Newfoundland and Labrador* (Catherine Keske, Ed.), Institute of Social Economic Research (ISER) Books, pp. 1-22. ISBN: 978-1-894725-45-3 (Paperback); 978-1-894725-46-0 (PDF)

Vodden, K., **C. Keske** and J. Islam, 2018, Chapter 4, Building a Social Movement for Sustainable Food Systems in Newfoundland and Labrador: The Role of Community Gardens. In *Food Futures: Growing a Sustainable Food System for Newfoundland and Labrador* (Catherine Keske, Ed.), Institute of Social Economic Research (ISER) Books, pp. 111-137. ISBN: 978-1-894725-45-3 (Paperback); 978-1-894725-46-0 (PDF)

Debnath, S.C. and **C. Keske**, 2018, Chapter 13, Technological Advances in the Propagation and Improvement of Newfoundland and Labrador Berries. In *Food Futures: Growing a Sustainable Food System for Newfoundland and Labrador* (Catherine Keske, Ed.), Institute of Social Economic Research (ISER) Books, pp. 381-409. ISBN: 978-1-894725-45-3 (Paperback); 978-1-894725-46-0 (PDF)

Keske, C., 2018, Epilogue: The Newfoundland and Labrador Food System Feedback Loop and Growing a Sustainable Food System. In *Food Futures: Growing a Sustainable Food System for Newfoundland and Labrador* (Catherine Keske, Ed.), Institute of Social Economic Research (ISER) Books, pp. 411-425. ISBN: 978-1-894725-45-3 (Paperback); 978-1-894725-46-0 (PDF)

Mills, M., and **C.M.H. Keske**. 2018. Industrial Mega-Projects and Waste Management in Northern Communities. [*Northern Public Affairs Magazine* 5\(3\)](#). <http://www.northernpublicaffairs.ca/index/volume-6-issue-3-the-fight-for-our-lives-preventing-suicide/industrial-mega-projects-and-waste-management-in-northern-communities/>

Keske, C. and Phillips, L. 2017. An Equitable, Sustainable Food System Vision for Newfoundland and Labrador, In *Asking the Big Questions: Reflections on a Sustainable Post Oil-dependent Newfoundland and Labrador* (R.E. Ommer, B. Neis, and D. Brake, Eds.), Section 1.5, Royal Society Canada, Atlantic Reflections, pp. 55-63. http://www.mun.ca/harriscentre/reports/Asking_the_Big_Questions.pdf

Pearson, C.H., Larson, S.R., **Keske, C.M.H.**, and Jensen, K.B., 2015, Chapter 12, Native Grasses for Biomass Production at High Elevations, In *Industrial Crops: Breeding for Bioenergy and Bioproducts* (V.M.V. Cruz and D.A. Dierig, Eds.), Handbook of Plant Breeding Series, Vol. 9, Springer, pp. 101-132. ISBN: 978-1-4939-1446-3

Laitos, J.G. and **Keske, C.M.**, 2012, Part II, Chapters 2-7 and Chapter 15, Social Economic Study of Resource Use and Non-Use, In *The Right of Non-Use* (Jan Laitos, Ed.), Oxford University Press, pp. 7-72. ISBN: 978-0195386066

Keske, C.M.H., 2010, High Mountain Ecosystems: How Much Love Can They Sustain? In *Environmental Management* (Santosh Sarkar, Ed.), Sciyo Publishers, pp. 189-216. ISBN: 978-953-7619

Hoag, D.L. (Editor), 2010, *Applied Risk Management in Agriculture*, Taylor and Francis Group, pp. 91-108. ISBN: 978-1439809730. Chapter contributions in review within edited collection:

Hoag, D.L., and **Keske, C.M.**, 2010, Determine Risk Preferences, In *Applied Risk Management in Agriculture* (Dana Hoag, Ed.), Taylor and Francis Group, pp. 91-108. ISBN: 978-1439809730

Keske, C.M., Hoag, D.L., and Fathelrahman, E., 2010, Determining the Likelihood of Outcomes, In *Applied Risk Management in Agriculture* (Dana Hoag, Ed.), Taylor and Francis Group, pp. 191-218. ISBN: 978-1439809730

Sprague, A., and **Keske, C.M.**, 2010, A Case Study of EWS Farms, In *Applied Risk Management in Agriculture* (Dana Hoag, Ed.), Taylor and Francis Group, pp. 19-38. ISBN: 978-1439809730

McDonnold, P. (Editor), 2008, *The Economics of Business* (Paul McDonnold, Ed.), Weston Distance Learning, Inc., pp. 419-452. ISBN: 040BS140TB01A-67. Chapter contributions within edited collection:

Keske, C.M., 2007, Economic Growth and Living Standards, In *The Economics of Business* (Paul McDonnold, Ed.), Weston Distance Learning, Inc., pp. 419-452. ISBN: 040BS140TB01A-67

Keske, C.M., 2007, Economic Fluctuation and Stability, In *The Economics of Business* (Paul McDonnold, Ed.), Weston Distance Learning, Inc., pp. 453-484. ISBN: 040BS140TB01A-67

ABC-CLIO SOLUTIONS. Online edition of ISSUES: Understanding Controversy and Society ISBN: 978-1-598-84047-6. <http://issues.abc-clio.com/Authentication/LogOn?returnUrl=%2FHome>

Chapter contributions within edited collection:

Hoag, D.L., and **Keske, C.M.**, 2006, Food Safety Overview.

Keske, C.M., and Hoag, D.L., 2006, Urban Sprawl Overview.

Keske, C.M., and Hoag, D.L., 2006, Water Quality and Availability Overview.

Hoag, D.L., **Keske, C.M.**, Ascough, J., and Koontz, L., 2005, Decision Making with Environmental Indices, In *New Trends in Ecology Research* (A.R. Burk, Ed.), Nova Publishers, pp. 159-182. ISBN: 1-59454-379-8

Refereed Cooperative Extension/Agricultural Experiment Station Publications:

Ramlow*, M., **C.M.H. Keske**, and M.F Cotrufo. 2016. Biochar in Colorado. Colorado State University Extension Publication 0.509. <http://extension.colostate.edu/topic-areas/agriculture/biochar-in-colorado-0-509/>

Keske, C.M.H., C. Pearson, D.L. Hoag and A. Brandess*. 2014. Western Colorado Perennial Grass and Biomass Budget Generator. Agricultural Experiment Station Report 14-03.

<http://webdoc.agsci.colostate.edu/aes/WCRC/publications/TR14->

[3%20Western%20Colorado%20Biomass%20Budget%20Generator%20Version%208%202.xlsm](http://webdoc.agsci.colostate.edu/aes/WCRC/publications/TR14-3%20Western%20Colorado%20Biomass%20Budget%20Generator%20Version%208%202.xlsm)

Bauder, T., **C.M.H. Keske**, and E. Wardle. 2014. Colorado Nutrient Management Practices: A Summary of Adoption and Costs. Colorado Agricultural Experiment Station Technical Report 13-10. Available at: <http://webdoc.agsci.colostate.edu/aes/AES/pubs/pdf/tr13-10.pdf>

McGaffin*, G., D.M. McLeod, C.T. Bastian, **C.M. Keske** and D.L. Hoag. 2013. Wyoming Landowners' Characteristics and Preferences Regarding Conservation Easements: Results from a Survey. B-1241.

Keske, C.M.H., G. Lohman Birch*, and M.F. Cotrufo. 2012. Biochar in Colorado. Colorado State University Agricultural Extension Bulletin 0.509.

Keske, C.M.H. 2012. Determining the Economic Feasibility of Anaerobic Digestion in Colorado: Guidelines for Animal Farm Producers. Colorado State University Agricultural Extension Bulletin 1.229.

Cropper*, E.D., C.T. Bastian, D.M. McLeod, **C.M. Keske**, and D.L. Hoag. 2011. Understanding Land Trusts and Factors Impacting Their Demand for Conservation Easements: Survey Results from the Intermountain West. University of Wyoming Extension Bulletin, B-1225. Available at: <http://www.wyomingextension.org/agpubs/pubs/B1225.pdf>

Keske, C. 2011. Determine Economic Feasibility of Anaerobic Digester, In: Technical and Economic Feasibility of Anaerobic Digestion: (Sybil Sharvelle and Catherine Keske, Eds.), Montana State University Extension. Available at: <http://www.e3a4u.info/http://www.e3a4u.info/content.cfm?page=AnaerobicDigesters>

Keske, C.M., S. Gripne, and L. Sherrod. 2008. "Update on Conservation Easements: What Every Colorado Landowner Should Know." CSU Technical Extension Bulletin. March 2008. XCM-227 Available at: <http://extension.colostate.edu/docs/pubs/natres/xcm234.pdf>

Refereed, Peer-Reviewed Conference Papers, Abstracts, Proceedings, and Synthesis Papers:

June 15, 2022. Goncalves, N., M. Bernal, T. Lempiälä, and C. Keske. Barriers in Adopting IoT4Ag Technology in California's Central Valley. 2nd Annual Meeting of the Internet of Things for Precision Agriculture (IoT4Ag) Engineering Research Center (ERC). West Lafayette, Indiana. June 15-17, 2022. Presented by Bernal and Goncalves.

October 12, 2021. Bernal, M., Goncalves, N., and Keske, C. Barriers in Adopting IoT4Ag Technology in California's Central Valley: A Mixed Methods Approach. Presented to the National Science Foundation at the 1st Annual Internet of Things for Precision Agriculture (IoT4Ag) Engineering Research Center (ERC) Site Visit. Philadelphia, Pennsylvania. October 12-15, 2021. Presented by Bernal and Goncalves.

October 2, 2021. Keske, C. Envisioning Food Sovereignty in Saint-Pierre and Miquelon. Franco-Canadian Congress on Aquatic Sciences. 1st Edition Abstract. Saint-Pierre-et-Miquelon. September 30-October 3, 2021. <https://en.aquatic-sciences-congress.com>. Presentation by Keske available [here](#).

June 10, 2021. Keske, C., N. Goncalves*, and M. Bernal*. Barriers in Adopting IoT4Ag Technology in California's Central Valley: A Mixed Methods Approach. 1st Annual Internet of Things for Precision Agriculture (IoT4Ag) Engineering Research Center (ERC) Conference (held virtually). June 9-11, 2021.

December 7, 2020. Quesnel, K., P. Saska, A. Gritter, D. Lewis, K. Oleson, C. Keske, M. Conklin, M. Elias, P. Wyrsh, K. Hermes, R. Cleveland, N. Goncalves, H. Gao, and R. Bales. Ecosystem Services of Forest Restoration in the Western U.S.: A Synthesis of Benefits to Enable Financing. Poster Session # GC004-0004. American Geophysical Union (AGU) Annual Meeting Online Everywhere December 1-17, 2020. <https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/741669>

April 6, 2020. Holcomb*, E. and **C. Keske**. A Sense of Place in a “Third Place”. Urban Placemaking, Sense of Place, Public Space, and Mediated Place Images Session in American Association of Geographers (AAG) Annual Meeting. Denver, Colorado. April 6-10, 2020. <https://aag.secure-abstracts.com/AAG%20Annual%20Meeting%202020/sessions-gallery/25910>

December 10, 2019. Kagan, C., **C. Keske**, J. Krogmeier, R. Mangharam, and D. Rowland. NSF Engineering Research Center for the Internet of Things for Precision Agriculture (IoT4Ag). Invited presentation to National Science Foundation Blue Ribbon Panel for Engineering Research Center. Washington, D.C. December 10-11, 2019.

November 5, 2019. Diaz, G., A.A., Berhe, Y.-Q. Chen, T. Ghezzehei, **C. Keske**, R. Ryals, H. McLaughlin, and A. Flynn. Mobile Biochar Production for Methane Emission Reduction and Soil Amendment. Invited poster presented at Strategic Growth Council Climate Change Research Symposium. Sacramento, California. Also presented at “What Do We Do with Our Biogas?” Symposium hosted at UC-Merced on November 12, 2019.

October 1, 2019. **Keske, C.**, T. Godfrey*, D. Hoag, and J. Abedin. Economic Feasibility of Biochar Production from Canadian Black Spruce Forest Residue. Seventeenth International Waste Management and Landfill Symposium. Session D05, “Biochar from Different Residues”. Paper published in conference proceedings and oral presentation. Sardinia, Italy. September 30-October 4, 2019.

June 4, 2019. Holcomb*, E. and **C. Keske**. Are These French Fries Local? Food Sovereignty in Communities That Grow Our Food. Canadian Association for Food Studies (CAFS) /l’Association canadienne des études sur l’alimentation 14th Annual Assembly, Joint Meeting with Congress 2019 of the Humanities and Social Sciences. Vancouver, British Columbia. June 2-5, 2019.
https://docs.wixstatic.com/ugd/fb8eac_7c8ed57665094a09806f4430e36d6b6c.pdf

April 3, 2019. Holcomb*, E. and **C. Keske**. Fast Food Vs. Local Eateries-Food Sovereignty in Your Own Sense of Place. Changing Food Systems Session in American Association of Geographers (AAG) Annual Meeting. April 1-3, 2019. Washington, D.C.
<https://aag.secure-abstracts.com/AAG%20Annual%20Meeting%202019/abstracts-gallery/18128>

May 28, 2018. **Keske, C.**, and L. Tanguay*. Disease-free Honeybee Conservation and Local Food Production as Joint Policy Goals. Canadian Association for Food Studies (CAFS) /l’Association canadienne des études sur l’alimentation 13th Annual Assembly, Joint Meeting with Congress 2018 of the Humanities and Social Sciences. Regina, Saskatchewan. May 27-29, 2018.

October 2, 2017. **Keske, C.**, M. Mills, and J. Dicker*. Landfill and Waste Management in Remote Rural Communities across the Canadian North: Challenges and Opportunities. Sixteenth International Waste Management and Landfill Symposium. Abstract number 199, Session C02, “Waste Management Under Varying Conditions”. Paper published in conference proceedings and oral presentation. Sardinia, Italy. October 2-6, 2017.

June 21, 2017. Langer*, S., and **C. Keske**. Diverting Canadian Nationalism towards Indigenous Territorial Rights. Nordic Geographers Conference. Stockholm, Sweden. June 18-22, 2017.

November 3, 2016. **Keske, C.** and L. Phillips (Leads), with C. Doonan, S. Martin, G. Montevecci, D. Pittman, S. Roseman, and contributions from S. Cadigan and C. Mah. Asking the Big Questions. An Equitable, Sustainable Food System Vision for Newfoundland and Labrador. In: What Might a Sustainable Post Oil-Dependent Newfoundland and Labrador Look Like and What Kinds of Skills, Expertise, Infrastructure and Institutions Do We Need to Get There? *Asking the Big Questions 2016 Royal Society of Canada (RSC) Atlantic Program*. Refereed Synthesis Paper. St. John’s, NL.

August 2, 2016. Hou*, L., **C. Keske**, and D. L. Hoag. Abatement Costs of Emissions from Crop Residue Burning in Major Crop Producing Regions of China: Balancing Food Security with the Environment. Paper published in proceedings of the Agricultural and Applied Economics Association (AAEA) meetings in Boston, MA. July 31, 2016-August 2, 2016. <http://ageconsearch.umn.edu/bitstream/235742/2/AAEA-draft%202016-05-24-hou-keske-submitted%20to%20AAEA.pdf>.

June 25, 2016. Todd, L., C.T. Bastian, D. McLeod, **C.M. Keske**, and D.L. Hoag. Factors and Prices Affecting Colorado and Wyoming Landowners' Willingness to Accept a Conservation Easement. 2016 CAES-WAEA Joint Annual Meeting. Victoria, B.C.

May 24, 2016. Hou*, L., D.L. Hoag, and **C.M. Keske**. Abatement Costs of Emissions from Crop Residue Burning in Major Crop Producing Regions of China: Using a DEA Method. (Paper #DEA 2016-037) 14th International Conference on Data Envelopment Analysis in Wuhan, China. May 23-May 26, 2016.

February 22, 2016. Todd, L., C.T. Bastian, D. McLeod, **C.M. Keske**, and D.L. Hoag. Factors and Prices Affecting Colorado and Wyoming Landowners' Willingness to Accept a Conservation Easement. W-2133 Meeting. Portland, Oregon.

August 14, 2015. Hou*, L., D.L. Hoag, and **C.M.H. Keske**. The Influence of Externalities on Inter-temporal Management of Soil Capital: A Dynamic Programming Approach" (ID:778). 29th Triennial Conference of the International Conference of Agricultural Economists (ICAE), CP(O)-0618. Milan, Italy. August 9-14, 2015.

November 3, 2014. Wardle, E., T.A. Bauder, **C.M.H. Keske**, and M. Zimmerman. 2014. 88-12: Nutrient Management on Irrigated Farms in Colorado: Factors Affecting the Adoption of Best Management Practices. Annual American Soil and Agronomy Society Meetings, Education & Extension Division, Applied Agronomic Research & Extension Session. Long Beach, California. Available at: <https://dl.sciencesocieties.org/publications/meetings/2014am/13270/89389>

December 3-7, 2012. Birch*, G.L., J.L. Field*, **C.M.H. Keske**, M. DeFoort, and M.F. Cotrufo. B33D-0554: A Regionally-Specific Assessment of the Carbon Abatement Potential of Biochar. In Session B33D: Potential Capacities to Sequester Carbon at a Regional Scale II Posters. American Geophysical Union (AGU) Annual Meetings. San Francisco, California.

October 6, 2012. Pearson, C.H., **C.M.H., Keske**, R. Follett, A. Halvorson, S. Larson, and A. Brandess, Developing Low-Input, High-Biomass, Perennial Cropping Systems for Advanced Biofuels in the Intermountain West. *Sun Grant Technical Paper*, Volume 2, Chapter 2, Section 2.8. <http://sungrant.tennessee.edu/NatConference/ConferenceProceedings/ENERGY+CROP+PRODUCTION.htm>

September 6, 2012. Grunau, L., M. Fink, K. Decker, D. Anderson, G. Smith, **C.M.H. Keske**, E. Carlson, J. Goldstein, and J. Lemly, SHRP C21 Pilot Test the Ecological Approaches to Environmental Protection Developed in Capacity Research Projects C06A and C06B. Submitted to National Science Foundation Transportation and Research Board.

August 13, 2012. **Keske, C.M.H.**, A. Brandess*, D. Hoag, and C. Pearson. Economic Feasibility of Bio-Butanol on Marginal Lands in Western Colorado. Poster presentation at Agricultural and Applied Economics Association Meetings. August 12-14, 2012. Seattle, Washington. Refereed poster available on-line: <http://ageconsearch.umn.edu/bitstream/124047/1/AAEA%20POSTER%20664%20UPDATED.pdf>

June 21, 2012. Brandess*, A., **C.M.H. Keske**, D. Hoag, and J. Johnson, Profitability of Camelina Sativa as a Biofuel Feedstock in Northeastern Colorado for presentation at the annual meetings, June 20-22, 2012, Park City, Utah.

March 13, 2012. Keske, C.M.H., T. Bauder, and A. Irrer*, Colorado Nutrient Management Practices 1997-2011: Costs and Technological Advances. Submitted to the Colorado Department of Public Health and the Environment. Published October 31, 2011 and presented March 13, 2012.

July 31, 2011. Cross, J., C.M.H. Keske and P. Bixler*. It's All About Context: The Social Dimensions of Perceived Land Use Change in the Intermountain West. Rural Sociological Society and Rural Community Development Society Meeting. Boise, Idaho.

February 23, 2011. Cropper*, E., C.T. Bastian, D.M. McLeod, C.M.H. Keske, D.L.K. Hoag, and J. Cross. Factors Impacting Land Trusts' Demand for Conservation Easements. Presentation at W-2133 Meeting. Albuquerque, NM. Refereed.

June 30, 2011. Cropper*, E., D.M. McLeod, C.T. Bastian, C.M.H. Keske, D.L. Hoag, and J.E. Cross. Land Trusts' Demand for Conservation Easements in the Intermountain West. Presentation at the 2011 Western Agricultural Economics Association and Canadian Agricultural Association Joint Meeting. Banff, Canada.

December 10, 2010. Keske, C.M.H., T. Iverson, S. Evans*, and G. Graff, Designing a Technology-Neutral, Benefit Pricing Policy for the Electric Power Sector in Colorado. Refereed technical report submitted to the Colorado Governor's Energy Office.

October 3, 2010. McGaffin, G., C. T. Bastian, P. Dewell, C. M. Keske, C. West, D. L. Hoag, and D. M. McLeod. Do Landowners Trust Land Trusts? Debunking Myths on Landowner Conservation Easement Preferences. Selected workshop presentation. The National Land Conservation Conference. Hartford, CT.

July 26, 2010. Lohman, G., C.M.H. Keske and J.B. Loomis. Verbiage Matters: High Individual WTP for High Mountain Recreation in a CVM Model. Poster presentation at American Agricultural Economics Association, Western Agricultural Economics Association, and Canadian Agricultural Economics Association Joint Annual Meeting. Refereed poster available on-line: <http://ideas.repec.org/p/ags/aaea10/60679.html>

July 26, 2010. Loomis, J.B., C.M.H. Keske and G. Lohman. Did the Great Recession Reduce Visitor Spending and Willingness to Pay for Nature-Based Recreation? Evidence from 2006 and 2009. Poster presentation at American Agricultural Economics Association, Western Agricultural Economics Association, and Canadian Agricultural Economics Association Joint Annual Meeting. Refereed poster available on-line: <http://ageconsearch.umn.edu/bitstream/60825/2/Loomis%20AAEA%2010267%20Great%20Recession%2014er%20poster.pdf>

November 19, 2009. Evans*, S., C.M. Keske and D.L. Hoag. Economic Feasibility of Anaerobic Digesters in the Mountain West. Institute for Livestock and the Environment 2009 Stakeholder Summit. Fort Collins, Colorado. Poster selected for 3rd place in graduate student poster contest.

August 28, 2009. Keske, C.M., Economic Feasibility Study of Colorado Anaerobic Digester Projects. Refereed technical report submitted to the Colorado Governor's Energy Office. Project 09-205.

August 1, 2009. Cross, J., C.M. Keske, M.G. Lacy, and C.T. Bastian. Dimension of Sense of Place and Attitudes towards Conservation Easements. Presented by Cross at Rural Sociological Society Meeting. Madison, WI.

June 26, 2009. Keske, C.M., S. Smutko and C. Doyle. Using Audience Response Systems to Assess Rural Stakeholder Preferences. Paper presented in "New West, Old West, What's Best?" Symposium for Western Agricultural Economic Association Annual Meeting organized by Keske. Kauai, Hawaii.

June 26, 2009. Keske, C.M., S. Smutko, C. Doyle, 2009, Using Audience Response Systems to Measure Stakeholder Preferences in Economies Transitioning from Extraction to Recreation, In: Journal of Agricultural and Resource Economics (DeeVon Bailey, Ed.), 34(3), pp. 555. Refereed meeting abstract. ISSN: 1068-5502.

June 26, 2009. Laitos, J., and C.M. Keske, 2009, The Right of Non-Use: Providing Legal Rights to a Resource, In: Journal of Agricultural and Resource Economics (DeeVon Bailey, Ed.), 34(3), pp. 555. Refereed meeting abstract. ISSN: 1068-5502.

June 25, 2009. McGaffin, G.H., D.M. McLeod, C.T. Bastian, C.M. Keske, and D.L. Hoag. 2009. Identifying Influential Factors for Colorado and Wyoming Landowners regarding Conservation Easement Acceptance. Presented by McGaffin at the Western Agricultural Economics Association Meeting in Kauai, Hawaii.

February 21, 2009. McLeod, D.M., C.T. Bastian, C.M. Keske, and D.L. Hoag. 2009. The Market for Conservation Easements: Evidence from Stated Choice Surveys in the West. Presented by McLeod at the W2133 Meeting in San Antonio, TX.

September 21, 2008. Keske, C.M. Effective Conservation Easement Stewardship for Volunteer Organizations. The National Land Conservation Conference (Land Trust Alliance Rally). Pittsburgh, Pennsylvania.

July 29, 2008. Bastian, C.T., A. Miller, D. McLeod, C.M. Keske and D.L. Hoag, Determinants of Agricultural Landowners' Willingness to Supply Open Space Through Conservation Easements, American Agricultural Economics Association (AAEA)/ACCI Joint Annual Meeting, Orlando, Florida. Refereed paper published in proceedings from the annual meeting. File URL: <http://purl.umn.edu/6724>. www.aaea.org

June 27, 2008. Keske, C.M. and J.B. Loomis. The Economic Value of Novel Means of Ascending High Mountain Peaks: A Travel Cost Demand Model of Automobile Drivers, Cog Railway Riders, and Hikers. Western Agricultural Economic Association Annual Conference, Big Sky, Montana. In: Journal of Agricultural and Resource Economics (DeeVon Bailey, Ed.), 33(3), pp. 489. Refereed meeting abstract. ISSN: 1068-5502.

June 27, 2008. Loomis, J.B. and C.M. Keske. Peak Load Pricing of High Alpine Peaks to Reduce Environmental Damage: Is the Reduction in Use Due to Substitution Effect of Income Effect. Western Agricultural Economic Association Annual Conference, Big Sky, Montana. In: Journal of Agricultural and Resource Economics (DeeVon Bailey, Ed.), 33(3), pp. 489. Refereed meeting abstract. ISSN: 1068-5502.

June 26, 2008. Bastian, C.T., C.M. Keske, S. Swallow, D.L. Hoag, E. Uchida, C. Anderson, D.M. McLeod, and A.D. Miller. WAEA Invited Symposium: Emerging Markets for Environmental Goods: Can the Market Solve Such Problems? Western Agricultural Economic Association Annual Conference, Big Sky, Montana. Keske as moderator.

June 26, 2008. Bastian, C.T., C.M. Keske, D.L. Hoag, D.M. McLeod, and A.D. Miller. Factors Impacting the Potential Supply of and Demand for Development Rights in the Emerging Market for Conservation Easements. Paper in WAEA Accepted Symposium: Emerging Markets for Environmental Goods: Can the Market Solve Such Problems? Western Agricultural Economic Association Annual Conference, Big Sky, Montana.

June 26, 2008. Bastian, C.T., C.M. Keske, D.L. Hoag, D.M. McLeod, and A. D. Miller, 2008, Factors Impacting the Potential Supply of and Demand for Development Rights in the Emerging Market for Conservation Easements, In: Journal of Agricultural and Resource Economics (DeeVon Bailey, Ed.), 33(3), pp. 506. Refereed meeting abstract. ISSN: 1068-5502.

June 25, 2008. Goldbach*, R.L., **C.M. Keske** and D.L. Hoag. Gender Differences in Producers' Perceived and Revealed Risk-Taking Behaviors. Western Agricultural Economic Association Annual Conference, Big Sky, Montana.

October 6, 2007. **Keske, C.M.** and M. Strunk. Using Photography and Stories of the Land to Preserve a Community's Sense of Place. Land Trust Alliance Annual Conference.

September 10, 2007. Hoag, D.L., J. Ascough, E. Fathelrahman, and **C.M. Keske**. Stakeholder Payoff Matrix for Disparate Tradeoffs, Invited paper. Sicily, Catania, Italy. International Farming Systems Design Conference.

August 1, 2007. Hoag, D.L., **C. M. Keske**, C.T. Bastian, D.M. McLeod, and A.M. Miller. What Are Landowners and Land Trusts Trying to Preserve with Conservation Easements? A Simultaneous Examination of Buyers and Sellers. Western Agricultural Economic Association Annual Conference. In: Journal of Agricultural and Resource Economics (DeeVon Bailey, Ed.), 32(3), pp. 559. Refereed meeting abstract. ISSN: 1062-1912.

August 1, 2007. **Keske, C.M.** and J.B. Loomis. Regional Economic Development and Net Economic Values of Public Access to Colorado Fourteeners. Western Agricultural Economics Association Annual Conference.

July 30, 2007. **Keske, C.M.**, D.L. Hoag and C.T. Bastian. Internalizing Externalities When There Are Significant Private Non-market Rents. American Agricultural Economics Association Annual Conference. Refereed paper published in the 2007 AAEA (formerly American Agricultural Economics Association) meeting proceedings. <http://ageconsearch.umn.edu/bitstream/9722/1/sp07ke03.pdf>

October 13, 2006. **Keske, C.M.**, D.L. Hoag, C.T. Bastian, and D. McLeod. What Did Your Peers Tell Us about Land Conservation? Land Trust Alliance Annual Conference, Nashville, Tennessee.

June 29, 2006. Hoag, D.L., **C.M. Keske**, and M.G. Lacy. Conservation Easements on Ag Lands: The Influence of Income, Tax Policy, and Other Factors. Western Economic Association Annual Conference, Anchorage, Alaska.

June 30, 2006. **Keske, C.M.**, D.L. Hoag, C.T. Bastian, and D.L. McLeod. Waste Not, Want Not: Getting More Value of Focus Groups about Conservation Easements. Western Agricultural Economics Association Annual Conference, Anchorage, Alaska.

April 19, 1997. **Keske, C.M.** and D.A. Smriga. Hearing aid selection using the auditory loudness mapping and Scal-Adapt software. American Academy of Audiology Annual Conference (1997) Fort Lauderdale, Florida.

April 6, 1996. Smriga, D.A., and **C.M. Keske**. Using Loudness Mapping to Fit WDRC Hearing Aids. American Academy of Audiology Annual Conference (1996) Salt Lake City, Utah.

CONTRACTS & GRANTS

Externally-Funded Projects as PI

2022-2023 National Robotics Initiative: Foundational Research in Robotics, NRI: INT: COLLAB: Distributed Co-Robots for Strawberry Harvesting. Sub-contract award PI: Keske. Lead institution: University of Central Florida, PI: Yunjun Xu. Award number: 1924622. October 1, 2021 – August 1, 2023. 15,395.00

2020-2025 “NSF Engineering Research Center for the Internet of Things for Precision Agriculture (IoT4Ag)”. National Science Foundation Engineering Research Center University of Pennsylvania sub-contract award to UC-Merced: \$4,271,153 including cost-share. NSF 19-503 Gen-4 Engineering Research Centers. Keske serving as sub-contract PI, Site Director, and Center Co-lead for Diversity and Culture of Inclusion. UC-Merced Co-PIs: Stefano Carpin, Reza Ehsani, Erin Hestir. Award Number (FAIN): EEC-1941529. September 1, 2020-August 31, 2025. \$26,000,000.00, with cost share.

2016-2019 “Facilitating Sustainable Waste Management in a Northern Community and Resource Development Context at Happy Valley-Goose Bay, Labrador”. Sub-Contract Award for Resources and Sustainable Development in the Arctic (ReSDA) Program through Social Sciences and Humanities Research Council of Canada (SSHRC)—Chris Southcott (PI). Sub-Contract PI: **Catherine Keske**. Co-PIs Morgon Mills and Jinal Abedin. \$40,000. Grant number 412-2011-1006. More information available at project website: <http://yukonresearch.yukoncollege.yk.ca/resda/>

2016-2018 “Economic and Technical Feasibility of Newfoundland Pollinator Production”. Research Development Corporation Ignite R&D Program, Canada. PI: **Catherine Keske**. \$84,000. Contract #5404.1988.101.

2015-2017 “Economic Feasibility of Potential Crops/Cropping Systems in Newfoundland and Labrador: A Preliminary Analysis”. PI: **Catherine Keske**. AgriFoods Canada, Division of Natural Resources, distributed from Canada’s Growing Forward 2 Program. \$44,983.32. (PARDP # 1415-020).

2009-2014 “Interdisciplinary Graduate Research for the Production and Marketing of Oilseed Biofuel Products”. PI: **Catherine Keske**. Co-PIs Patrick Byrne (Soil and Crop Sciences), Jerry Johnson (Soil and Crop Sciences) and Daniel Olsen (Mechanical Engineering). USDA AFRI Biofuel Education Program. December 15, 2009-December 14, 2014. \$500,000. Grant# 2010-65504-20357; Contract#2009-02813.

2008-2012 “Using Mountain Ecosystem Services to Provide Sustainable Economic Growth and Job Development in Rural Communities”. USDA-NRI. PI: **Catherine Keske**. September 1, 2008-August 31, 2012. \$375,000. Grant# 2008-02698.

2010-2011 “Environmental Economics in the Nation of Mali”. U.S. Agency for International Development (USAID) Feed the Future Innovation Lab for Collaborative Research on Adapting Livestock Systems to Climate Change (Leader with Associates Cooperative Agreement No. AID-OAA-L-10-00001). PI: **Catherine Keske**. October 1, 2010-September 30, 2011. \$50,516. Grant # AID-OAA-L-10-00001.

2010 “Designing a Technology-Neutral Benefit Pricing for the Electric Power Sector in Colorado.” Invited proposal funded by Colorado Governor’s Energy Office. PI: **Catherine Keske**. Co-PIs: Terry Iverson, Gregory Graff. Collaborator: Samuel Evans. July 1, 2010-December 30, 2010. \$72,520.78. Grant # 10-136.

2009 “Economic Feasibility of Anaerobic Digesters in Colorado”. Invited proposal funded by Colorado Governor’s Energy Office. PI: **Catherine Keske**. March 23, 2009-June 30, 2009. \$18,942. Grant # 09-205.

2008-2009 “Risk and Planning for Female Agricultural Producers in Utah and Western Colorado”. Grant funded by Western Center for Risk Management. August 1, 2008-July 31, 2009. PI: **Catherine Keske**. \$41,242. Grant # 2007-49200-03892.

Externally-Funded Projects as Co-PI

2022-2023 Fresno-Merced Future of Food Innovation (F3) Collaborative R&D Challenge. Using Biochar Co-compost to Foster a Climate Smart, Circular Agriculture Economy. PI: Rebecca Ryals. Co-PIs: Xuan Zhang and **Catherine Keske**. \$14,994.

2020-2025 NSF Engineering Research Center for the Internet of Things for Precision Agriculture (IoT4Ag). National Science Foundation Engineering Research Center. PI: Cherie Kagen. Co-PIs: David P. Arnold, Sue Ann Bidstrup-Allen, David Cappelleri, **Catherine Keske**, Kevin Turner. \$26,000,000, with cost share and prospective 5-year renewal to extend award to 2025-2030. Sub-contract award to UC-Merced: \$4,271,153 including cost-share. NSF 19-503 Gen-4 Engineering Research Centers. Sub-contract award PI: Keske. UC-Merced Co-PIs: Stefano Carpin, Reza Ehsani, Erin Hestir. **Catherine Keske** also UC-M Site Director and lead of IoT4Ag Diversity and Culture of Inclusion. September 1, 2020-August 31, 2025. \$26,000,000.00, with cost share. Award Number (FAIN): EEC-1941529.

2021-2025 NSF Engineering Research Center for the Internet of Things for Precision Agriculture (IoT4Ag). National Science Foundation Engineering Research Center. PI: Cherie Kagen. Co-PIs: David P. Arnold, Sue Ann Bidstrup-Allen, David Cappelleri, **Catherine Keske**, Kevin Turner. NSF Supplement for Student Leadership Council Inclusion Activities. September 1, 2021- August 31, 2025. \$8,100. Award Number (FAIN): EEC-1941529.

2021-2023 Early Detection and Growth tracking of Aflatoxin-Producing Fungi in Pistachios Using E-nose Technology. USDA Foreign Agricultural Service, Technical Assistance for Specialty Crops (TASC) Program. PI: Reza Ehsani. Co-PIs: Ali Mesbah, Roya Maboudian, **Catherine Keske**. February 1, 2021-March 1, 2023. \$499,853. NOFO#: 2021-03.

2019-2023 Mobile Biochar Production for Methane Emission Reduction and Soil Amendment. California Strategic Growth Council (SGC) Climate Research Program. PI: Gerardo Diaz. Co-PIs: YangQuan Chen, **Catherine Keske**, Teamrat Ghezzehei, Asmeret Behre, and Rebecca Ryals. April 1, 2019-March 30, 2023 (one-year no cost extension granted). \$3,088,188. Grant Agreement #CCR20014.

2019-2023 “The Innovation Center for Advancing Ecosystem Climate Solutions”. California Strategic Growth Council Climate Research Program Sub-Contract Award. PI: Roger Bales. Co-PIs: Martha Conklin, Stephen Hart, **Catherine Keske**, LeRoy Westerling. April 1, 2019-March 30, 2023 (one-year no cost extension granted). Total Award: \$4,363,80.02. UC-M Sub-contract: \$1,363,453. Grant Agreement #: CCR 20021.

2011-2019 (co-PI 2016-2019). Resources and Sustainable Development in the Arctic (ReSDA) Major Collaborative Research Initiatives Program through Social Sciences and Humanities Research Council of Canada (SSHRC)—Chris Southcott (PI), major co-PIs Francis Abel, David Natcher, Brenda Parlee. **Catherine Keske** one of 40 co-PIs. \$2,500,000. Grant number 412-2011-1006. More information available at project website: <http://yukonresearch.yukoncollege.yk.ca/resda/research-overview/team/researchers/>

2011-2018 “The Niwot Ridge Long-Term Ecological Research Program 2011-2016: Tipping Points in High-Elevation Ecosystems in Response to Changes in Climate and Atmospheric Deposition”. National Science Foundation Long Term Ecological Research Grant renewal proposal for Niwot Ridge LTER site. PI: Katharine Nash Suding and Mark Williams, University of Colorado-Boulder. Co-PIs: **Catherine Keske** one of 11 co-PIs. 2011-2018. \$6,500,000. Contract #DEB-1027341.

2011-2015 “Dynamics of Coupled Natural and Human Systems in the Colorado Front Range Wildland/Urban Interface: Causes and Consequences”. National Science Foundation-CNH Program. Project PI at University of Colorado-Boulder: Patrick S. Bourgeron. Co-PIs: Hope Humphries, **Catherine Keske** (sub-contract PI), Patricia N. Limerick, Timothy R. Seastedt, Randall Walsh (sub-contract PI), Mark Williams. September 1, 2011-August 30, 2015. Full Award \$1,430,000, Award Contract # 1115068.

2011-2014 “Developing Low-Input, High-Biomass, Perennial Cropping Systems to Support a Bioenergy Economy on Marginal Land at Higher Elevations” South Central Sun Grant administered by Oklahoma State University. PI: Calvin Pearson. Co-PIs: Ron Follott, and **Catherine Keske**. September 1, 2011-May 31, 2014. \$75,000. Grant # DTOS59-07-G-00053.

2011-2014 “Soils, Land Use and Climate Change: A New Baccalaureate Concentration”. PI: Francesca Cotrufo. Co-PIs: Meena Balgopol, Rich Conant, **Catherine Keske**, Stephen Ogle, and Keith Paustian. USDA AFRI-NIFA HEC program. \$139,694. Grant #2011-01783.

2011-2012 “Pilot Test the Ecological Approaches to Environmental Protection Developed in Capacity Research. Project C06B”. PI: David Anderson. Co-PIs: Joshua Goldstein and **Catherine Keske**. National Academy of Sciences Strategic Highway Research Program, Transportation Research Board (TRB) FFIWA March 30, 2011-March 30, 2012. \$304,986. Cooperative Agreement No. DTFH61-06-H-00009.

2011-2012 “Biochar in Colorado agriculture: a research assessment of energy, environmental and economic benefits”. Colorado Department of Agriculture: Advancing Colorado’s Renewable Energy (ACRE) grant. PI: Francesca Cotrufo. Co-PIs: Morgan DeFoort and **Catherine Keske**. March 1, 2011-April 1, 2012. \$49,909. Contract #27777.

2011-2012 “CSU Irrigation Survey: Analysis, Training and Education for Agricultural Chemicals and Groundwater Protection”. Colorado Department of Agriculture. PI: Troy Bauder. Co-PI: **Catherine Keske**. July 1, 2011-June 30, 2012. \$85,000.

2010-2013 “Adapting Livestock Systems to Climate Change in Mali”. U.S. Agency for International Development (USAID) Feed the Future Innovation Lab for Collaborative Research on Adapting Livestock Systems to Climate Change (Leader with Associates Cooperative Agreement No. AID-OAA-L-10-00001). Sub-Award PI: Sybil Sharvelle: Co-PI: Jessica Davis and **Catherine Keske**. December 15, 2011-September 30, 2013. \$245,850. Grant # AID-OAA-L-10-00001. Funding discontinued in May 2012 due to Republic du Mali coup d’états.

2010-2012 “CSU Irrigation Survey: Analysis, Training and Education for Agricultural Chemicals and Groundwater Protection”. Colorado Department of Agriculture. PI: Troy Bauder. Co-PI: **Catherine Keske**. July 1, 2011-June 30, 2012. \$185,000. Grant #: POFAAWQC0800123 Amendment 3.

2011 “Financial Models for Electric Utility Business Model Transformation”. Department of Energy National Renewable Energy Laboratory’s Joint Institute for Strategic Energy Analysis (JISEA) program. January 1, 2011-September 30, 2011. PI: Thomas Bradley. Co-PIs: **Catherine Keske** and Dan Zimmerle. \$49,926.

2009-2011 “Development of Decision Tools for Anaerobic Digestion Projects.” PI: Sybil Sharvelle (Civil and Environmental Engineering). Co-PIs: Jessica Davis and **Catherine Keske**. USDA-NRCS CIG. October 1, 2009-September 30, 2011. \$75,000. 69-8B05-A-09-10.

2005-2009 “Economic Factors Affecting Conservation Easements for Rural Land Preservation: Agricultural Production and Amenity Preservation through Emerging Markets.” USDA-NRI. August 15, 2005-August 15, 2009. PI: Chris Bastian (University of Wyoming). Co-PIs: Dana Hoag, Don McLeod, and **Catherine Keske**. \$388,000. Grant# 2005-35401-16008

2007-2008 “Specialized Strategic Risk Management Training for Female Farmers and Ranchers in Montana.” U.S. Department of Agriculture Risk Management Agency Small Sessions Division (USDA RMA). PI: Dana Hoag. Co-PIs: **Catherine Keske** and Jay Parsons. October 1, 2007-September 30, 2008. \$10,000. Grant # 07-IE-0831-0077-E

2006-2007 “Specialized Strategic Risk Management Training for Female Farmers and Ranchers in Colorado and Nearby States”. U.S. Department of Agriculture Risk Management Agency (USDA RMA). October 1, 2006-November 30, 2007. PI: Dana Hoag. Co-PI: **Catherine Keske**. \$125,000. Grant# 06-IE-0831-0169-C

2005 “Vegetation and Trail Restoration Using a Vegetative Screening Procedure in Seed Collection Projects”. Funded by the Foundation for Sustainability and Innovation, Laguna Beach, CA. Start and End Dates: Jan 15-June 15, 2005. PI: **Catherine Keske**. Co-PI: John Giordanengo (Colorado Fourteeners Initiative, Golden, CO). \$10,000.

External, Competitive “Workgroup Mini-grants” intended to fund multi-disciplinary activities and grant proposal writing

2019-2020 “Social Innovation in Sustainable Arctic Resource Development (SISARD)”. Funded through Social Sciences and Humanities Research Council of Canada (SSHRC) Partnership Grant-Stage 1. PI: Chris Southcott (Lakehead University). Co-PIs/Co-applicants: **Keske** and 33 others. April 1, 2019-March 31, 2020. \$20,000.

2010-2011 “Assessment and Mitigation of Whole Farm Sustainability and Emissions from Dairy Production Systems in the Arid West”. USDA-AFRI-NIFA Climate change planning grant. PI: April Leytem (USDA-Agricultural Research Service, Idaho). Co-PIs: **Catherine Keske**, Dave Bjorneberg, Dave Dungan, Robert Ippolito, Jim Tarkalson, David Moore, Amber Moore, J.D. Wulfhorst, Chris McIntosh, Ermias Kebreab (University of California-Davis). September 1, 2010-August 31, 2011. \$50,000.

2009 “The Disappearing Cryosphere: Socioeconomic Consequences for Ecosystem Services.” National Science Foundation Cross-site LTER Research Workgroup Grant. PI: Hugh Ducklow (Woods Hole, MA LTER). Co-PIs: **Catherine Keske**, Andrew Fountain, Susan Capalbo. December, 2009. \$10,000.

2007 “Ecosystem Services from Working Lands: Cross-site LTER Research” Leadership Grant for Social Scientists. National Science Foundation Long Term Ecological Research (LTER) Network Office Working Group Grant. PI: Scott Swinton (Michigan State University). Co-PIs: **Catherine Keske** and eight others. April 11-April 13, 2007. \$8,150.

2005 National Science Foundation, Competitive Grant for Economic Classroom Experiments Training and the Economic Science Organization, \$2,000, June 20-22, 2005. Montreal, Quebec. PI: David Reilly.

Externally-funded projects, investigator role other than PI or Co-PI

2021-2023 “Recycling Microalgal Co-product to Reduce Eutrophication Emissions from Trout Aquaculture”. USDA AFRI NIFA IDEAS. PI: Sarker, Pallab K. (UC-Santa Cruz), Co-PIs: Kapuscinski, Anne R. (UC-Santa Cruz), Brandi McKuin (UC-Santa Cruz), Luke Gardner (UC-San Diego), **Catherine Keske** (UC-Merced, listed as UCSC collaborator). June 1, 2021-June 30, 2023. \$1,000,000.

2019-2022 “The Innovation Center for Advancing Ecosystem Climate Solutions”. California Strategic Growth Council Climate Research Program. Lead PI: Michael Goulden (University of California-Irvine with UC-I Team Efi Foufoula-Georgiou, Benis Egoh, Jim Randerson, and Padhraic Smyth). Other Co-PIs and Partners from University of California: UC-Merced Co-PI Roger Bales with Sub-contract Co-PI Team Martha Conklin, Steve Hart, **Catherine Keske**, Muhammad Safeeq, and LeRoy Westerling; UC-Berkeley Co-PI John J. Battles; Stanford Co-PI Christopher B. Field; UC-Davis Co-PI Yufang Jin and Team Toby O’Geen and Mike Walkinshaw; and, UC-San Diego Co-PI Walt Oechel. Grant Agreement #: CCR 20021. April 1, 2019-August 31, 2022. \$4,363,80.02. \$1,363,453 for UC-M sub-contract. <https://california-ecosystem-climate.solutions/research-team/>

2012-2017 “Routes to Sustainability for Natural Gas Development and Water and Air Resources in the Rocky Mountain Region.” National Science Foundation Chemical, Bioengineering, Environmental, and Transport Division. Project PI: Joseph Ryan, Colorado University-Boulder. Co-PIs and Collaborators: John Adgate, Patrick Bourgeron, Gregory Brinkman, Tzahi Cath, Robert Dick, Kevin Doran, Alfred Eustes, William Fleckstein, Michael Hannigan, Becca Hatheway, Hope C. Humpries, Daria Kotys, **Catherine Keske**, Patricia N.Limerick, Karl G. Linden, Qin Lv, Jana Milford, Kathryn Mutz, Stephen Osborn, Gabrielle Patron, Harihar Rajaram, Li Shang, Reagan Waskom, Mark Williams, Roxana Zulauf Witter. October 1, 2012-September 30, 2017. CBET-1240584. \$11,999,328.

2010-2015 “Adapting Livestock Systems to Climate Change Collaborative Research Support Program.” U.S. Agency for International Development (USAID) Feed the Future Innovation Lab for Collaborative Research on Adapting Livestock Systems to Climate Change (Leader with Associates Cooperative Agreement No. AID-OAA-L-10-00001). PI: Richard Bowen. Director: Jessica Davis. Collaborator and sub-contract award: **Catherine Keske**. April 2010-April 2015. \$15,000,000.

2010-2013 “Adapting Livestock Systems to Climate Change in Mali”. U.S. Agency for International Development (USAID) Feed the Future Innovation Lab for Collaborative Research on Adapting Livestock Systems to Climate Change (Leader with Associates Cooperative Agreement No. AID-OAA-L-10-00001). PI: Jessica Davis. Collaborator and sub-contract award: **Catherine Keske**. October 1, 2010-September 30, 2013. \$450,000. Funding discontinued in May 2012 due to Republic du Mali coup d’états.

University (Internal) Research and Teaching Grants

2020-2022 CITRIS and the Banatao Institute. Future of Work: Platforms and the Future of Work in Digitized Agriculture. PIs: Martin Kenney (UC-Davis), M. Anne Visser (UC-Davis), John Zysman (UC-Berkeley), **Catherine Keske**. November 1, 2020- November 30, 2022. \$60,000.

2018-2020 University of California-Merced Academic Senate Faculty Research Grants Program. “Sense of Place in California National Parks—What Is Shaping It and How Is It Changing?” PI: Jeff Jenkins co-PI **Catherine Keske**. May 1, 2018- May 31, 2020. \$9,930.

2018-2019 “Developing Food Sovereignty Indicators to Promulgate Food Security and Food Sovereignty.” Blum Center, University of California-Merced. June 1, 2018- May 31, 2019. \$10,000.

2017-2023 University of California-Merced, School of Engineering Start-Up Resources. July 1, 2017-June 30, 2022. **Catherine Keske**. \$356,389.

2017-2018 Social Sciences and Humanities Research Council of Canada (SSHRC)/Vice-President’s Research Grant. “Measuring Sense of Place in NL Regions: Developing Indicators for a Province-Wide Study of Sense of Place and Its Role in Sustainable Development”. March 1, 2017-February 28, 2018. PI: Kelly Vodden. Co-PI: **Catherine Keske**. \$6,500.

2017 “Development of COASTS undergraduate degree certificate in Humanities and Social Science”. Memorial University Cross Campus Initiative Education Fund. PI: Lynne Phillips. Co-PIs/Collaborators: Norm Catto, Ashlee Cunsolo, Danine Farquharson, **Catherine Keske**, Barb Neis. May 2017. \$5,554.

2016 “Defining ‘sense of home’, ‘economic dependence’, and ‘sense of place’ for N.L. residents: a literature review. Support for Scholarship in the Arts. January 1, 2016-December 31, 2016. PIs: **Catherine Keske**, Kelly Vodden, Daniel Nadolny. \$4,000.

2015 “Economic feasibility of fodder production as an alternative feed source for the Newfoundland and Labrador agricultural industry”. Memorial University Newfoundland Vice President Research Internal Grant Competition. January 1, 2015-December 31, 2015. PI: **Catherine Keske**. \$653.

2014-2017 Memorial University Newfoundland Vice President Research Fund. November 1, 2014-May 30, 2017. **Catherine Keske**. \$20,000.

2011-2012 “Expanding the Total Benefit Pricing of Green House Gas Emission Reduction in the Colorado Electricity Sector”. CSU/GEO Greening the Government Initiative. May 1, 2011-August 31, 2011. PI: **Catherine Keske**. \$10,000.

2011-2012 “Estimating the Carbon Footprint of Beef Production in Colorado.” Colorado State University Agricultural Experiment Station and Office of Dean of College of Agricultural Sciences. PI: Jay Ham. Co-PIs: Steve Koontz, Keith Paustian, Sybil Sharvelle, Kraig Peel, Jason Ahola, Dale Woerner, Joshua Goldstein, Joe Brummer, Jessica Davis, **Catherine Keske**. May 1, 2011-May 30, 2012. \$40,000.

2011 “Online Course Development Proposal: AGRI 638 Ecosystem Services on Agricultural Lands”. Colorado State University College of Agricultural Sciences On-line Course Development Grant. PI: Kraig Peel. Course Instructor: **Catherine Keske**. January 2011-August, 2011. \$2,500.

2010-2011 “Undergraduate Curriculum Development for an Interdisciplinary Bioenergy Concentration Capacity Building Project Proposal to the CSU Clean Energy Supercluster”. Capacity Building Project Proposal to the CSU Clean Energy Supercluster. PI: **Catherine Keske**. Co-PIs: Jerry Johnson (Soil and Crop Sciences), Jay Ham (Soil and Crop Sciences), Joe Brummer (Soil and Crop Sciences). April 2010-April 2011. \$7,500.

2010-2011 “Developing a Technology-Neutral, Benefit-Pricing Policy for the Colorado Electricity Sector.” Colorado State University Clean Energy Supercluster. PIs: Terry Iverson and Gregory Graff. Collaborators: **Catherine Keske** and Samuel Evans. April 2010-March 2011. \$15,000.

2011-2013 “CSU SOGES Global Challenges Research Team Mini-Grant ‘Managing for Resilience’”. PI: Dennis https://www.engr.colostate.edu/ece/news/2011/today@CSU-SoGES_names_global_challenges_research_teams.pdf. Co-PIs: Michelle Betsill, Scott Denning, Kathy Galvin, **Catherine Keske**, Jorge A. Ramirez, and Robin Reid. June 1, 2011-May 31, 2012. \$2,000.

2011-2013 “CSU SOGES Food, Energy, and Waste Global Challenges Research Team”. PI: Susan DeLong. Collaborators: **Catherine Keske**, Thomas Bradley, Cecil Stushnoff, Jessica Davis, Mary Stromberger, Yaling Qian, Frank Stonaker, Robin Reid.

2010-2011 “Biochar: An Assessment of Potential Energy, Environmental and Economic Benefits”. CSU Clean Energy Supercluster. PI: Francesca Cotrufo. Co-PIs: Morgan DeFoort and **Catherine Keske**. April 1, 2010-April 30, 2011. \$20,000.

2009-2010 “Expanded Economic Opportunities for Algae-based Biofuel Production, Using the Remaining Extract as a Feed for Animals” CSU Sustainable Biofuels Development Center Internal Grant. PI: Shawn Archibeque (Animal Science). Co-PIs: **Catherine Keske**, Terry Engle (Co-PI, Animal Science), Bryan Willson (Co-PI, Mechanical Engineering). January 1, 2009-March 31, 2010. \$75,000.

2009 CSU Monfort Professor in Residency Grant for Sponsorship of Guest Lecturer Lester Brown. PIs: **Catherine Keske** and Jessica Davis. September 22, 2009-November 20, 2009. \$10,000.

2009 “CSU SOGES Workgroup Development Grant.” Awarded to Institute for Livestock and the Environment. CSU internal grant submission by Jessica Davis (Soil and Crop Sciences) and Institute for Livestock and the Environment (ILE) core strategic planning team members to CSU School of Global Environmental Sustainability (SOGES). PI: Jessica Davis. January 1, 2009-June 30, 2009. \$10,000.

2009-2010 “Teens on Farms Project” CSU Extension Innovations Grant. Co-PIs Edward Page, Isaac Munoz, **Catherine Keske**, and Cassandra Shenk. August 1, 2009-July 31, 2010. \$8,693.55.

2008-2009 “CSU Clean Energy Supercluster Multidisciplinary Workgroup for Biofuel from Oilseed Crops in Colorado”. CSU PIs: Jerry J. Johnson, Patrick Byrne, Gary Peterson. Co-PIs: Shawn Archibeque, Neil Hansen, Alan Helm, **Catherine Keske**, John McKay, Dan Olsen, Meg Wilson. October 1, 2008 - April 30, 2009. \$15,000.

INVITED PUBLIC AND PROFESSIONAL PRESENTATIONS

March 16, 2021. Internet of Things for Precision Agriculture, Part I. NASA Kennedy Space Center (KSC) Lunch and Learn Seminar Series.

March 9, 2021. Internet of Things for Precision Agriculture, Part I. NASA Kennedy Space Center (KSC) Lunch and Learn Seminar Series.

October 25, 2019. Vermont Law School Vermont Journal of Environmental Law (VJEL) Symposium, *Bridging the Gap: Reconciling Agriculture with Environmentalism*, “Climate Change and Methane Reduction in California”, presented in *Farms: Energy Consumers and Producers* panel. North Royalton, Vermont. <http://vjel.vermontlaw.edu>

September 9, 2019. “Food security and sovereignty within and beyond California’s Central Valley”. Invited for Keynote Panel and Address at Global Experts Meeting on Frontiers in Food Security & Nutrition. Edinburgh, Scotland. <https://frontiersmeetings.com/conferences/foodsecurity-2019/keynotes/Catherine-Keske>

June 2, 2019. Invited for pre-conference panel “Navigating the interdisciplinarity of food studies”. Canadian Association for Food Studies meeting held jointly with Congress of the Humanities and Social Sciences. Vancouver, British Columbia.

February 6, 2019. Sustainable biomass and waste management in Canada’s semi-arctic and boreal ecosystems. Invited lecture for University of California-Merced Environmental Systems graduate group lecture series.

January 15, 2019. A faculty perspective on shared governance and undergraduate admissions at the University of California. Invited lecture at annual meeting of the 9-campus University of California Admissions Directors.

November 29, 2018. Food sovereignty and food sovereignty indicators. Invited lecture for 2nd annual Blum Center Symposium: Sustainable Development. Blum Center, University of California-Merced.

November 1, 2018. Invited lecturer for Friends of Food Secure Canada Book Launch, *Food Futures: Growing a Sustainable Future for Newfoundland and Labrador* (Edited by Catherine Keske) at Food Secure Canada’s 10th Assembly, “Resetting the Table”. Montreal, Quebec. <https://sites.grenadine.co/sites/foodsecurecanada/en/resettingthetable/items/464>

October 16, 2018. Invited lecturer for book launch of *Food Futures: Growing a Sustainable Future for Newfoundland and Labrador* (Edited by Catherine Keske) for University of California Faculty Author Series, in celebration of World Food Day, co-sponsored by the Blum Center.

July 10, 2018. Food security and food sovereignty in the Central Valley and Beyond. University of California-Merced Blum Center symposium, invited lecturer. Merced, CA.

June 22, 2018. Invited lecturer for book launch of *Food Futures: Growing a Sustainable Future for Newfoundland and Labrador* (Edited by Catherine Keske) at Aboriginal Resource Centre, College of the North Atlantic, Labrador Institute of Memorial University of Newfoundland, Happy Valley-Goose Bay, Labrador.

June 16, 2018. Invited lecturer for book launch of *Food Futures: Growing a Sustainable Future for Newfoundland and Labrador* (Edited by Catherine Keske) at Carbonear Public Library, Carbonear, Newfoundland.

June 14, 2018. Invited lecturer for book launch of *Food Futures: Growing a Sustainable Future for Newfoundland and Labrador* (Edited by Catherine Keske) at Memorial University of Newfoundland, St. John's Campus. St. John's, Newfoundland.

May 26, 2018. Invited lecturer for book launch of *Food Futures: Growing a Sustainable Future for Newfoundland and Labrador* (Edited by Catherine Keske) at Canadian Association for Food Studies meeting, held jointly with Congress of the Humanities and Social Sciences. Regina, Saskatchewan.

April 19, 2018. Food Security in the San Joaquin Valley. School of Engineering "FEAST" (Faculty of Engineering Accelerating Staff Training) invited lecturer. Merced, CA.

March 5, 2018. Food Security in the San Joaquin Valley. Sierra Nevada Research Institute Research Symposium invited lecturer and panel discussant. Merced, CA.

October 4, 2017. Keske, C., M. Mills, and J. Dicker*. Landfill and Waste Management in Remote Rural Communities across the Canadian North: Challenges and Opportunities. Sixteenth International Waste Management and Landfill Symposium. Abstract number 199, Session C02, "Waste Management Under Varying Conditions". Oral presentation. Sardinia, Italy. October 2-6, 2017.

May 2, 2017. Keske, C.M.H. Waste Management Practices across the Rural Canadian North. Labrador Research Forum. Happy Valley-Goose Bay. April 30-May 3, 2016.

March 13, 2017. Keske, C.M.H. Economic Approaches and Policy Implications of Valuing Ecosystem Services at the Food-Water-Energy Nexus. Invited speaker. University of California Merced. Merced, CA.

March 12, 2017. Langer*, S., C.M.H. Keske. Hydropower: Diverting Canadian Nationalism towards Indigenous Territorial Rights. Presented by Langer at *Peripheries II: Probing the Limits of Accessibility* Conference. Corner Brook, NL.

February 1, 2017. Keske, C.M.H. Economic Approaches and Policy Implications of Valuing Ecosystem Services at the Food-Water-Energy Nexus. Invited speaker. University of California Irvine Policy and Planning Department. Irvine, CA.

November 5, 2016. Keske, C.M.H. Growing Newfoundland's Beekeeping. Keynote Address. Newfoundland & Labrador Beekeeping Association Annual General Meeting & Conference. November 4-5, St. John's, NL.

November 2, 2016. Keske, C.M.H. How Does Growing NL's Agricultural Sector Make the Regional Economy Bloom? Invited Lecturer at Symposium: Our Food, Our Future, Research That Feeds Newfoundland and Labrador. Sponsored by Newfoundland and Labrador Department of Natural Resources Agrifoods Development Branch. St. John's, NL.

October 26, 2016. Keske, C.M.H. Economic Approaches to Managing Environmental Resources in the Gulf of St. Lawrence. In Symposium for Biological, Social, Economic and Cultural Implications of Oil and Gas Exploration in the Gulf of St. Lawrence. Corner Brook, NL.

February 23, 2016. Keske, C. Newfoundland Food Security and Food Sovereignty: Where Have We Been and What Are We Doing to Improve? Sponsored by the Corner Brook Museum and Archives. Corner Brook, NL. <https://boir.ca/event/newfoundland-food-security-and-food-sovereignty-where-have-we-been-and-what-are-we-doing-to-improve/>

May 9, 2015. Keske, C.M.H. A Research Symposium: Economic Feasibility of Potential Crops/Cropping Systems in Newfoundland and Labrador: A Preliminary Analysis. Food Futures NL, Food Advocacy Research at Memorial (FARM). May 9, 2015. www.mun.ca/farm/events.php

May 9, 2015. Dare*, Jennifer Brooke, C.M.H. Keske. Building Indicators of Food Sovereignty in Newfoundland and Labrador (NL). Food Futures NL, Food Advocacy Research at Memorial (FARM). May 9, 2015. www.mun.ca/farm/events.php

January 30, 2015. Keske, C.M.H. Food Security, Food Sovereignty, and the Agricultural Supply Chain in Newfoundland and Labrador. The Department of Economics Visiting Speaker Series, Support for Scholarship in the Arts, by Vice President Academic, St. John's, NL.

November 6, 2014. Keske, C.M.H. Home Grown: Trends in Agricultural Economics and Small Scale Agricultural Production. Symposium: Our Food, Our Future, Research That Feeds Newfoundland and Labrador. Sponsored by Newfoundland and Labrador Department of Natural Resources Agrifoods Development Branch. Corner Brook, NL.

June 11, 2014. Keske, C.M.H. Economic Methods to Value Forest and Agricultural Ecosystem Services. Invited lecture for Boreal Ecosystem Research Initiative.

April 14, 2014. Keske, C.M.H. Economic Methods to Value Mountain Ecosystem Services in the New West. Invited lecture for Montana Institute on Ecosystem Services.

November 20, 2013. Keske, C.M.H. From Wildfires to Wild Animals: A World Wide Perspective on Contemporary Land Use Issues and Ecosystem Services. Invited lecture for Denver University Sturm School of Law Land Use Society.

October 10, 2013. Keske, C.M.H. The Economic Feasibility of Growing Biofuel Crops. Invited by Yuma County Economic Development Board and Colorado State University Extension.

April 18, 2013. Birch, G.L., J.L. Field, C.M.H. Keske, M. DeFoort, and M.F. Cotrufo. A Regionally-Specific Assessment of the Carbon Abatement Potential of Biochar. Our Energy Future: An Earth Week Symposium on Clean Energy. Colorado State University Clean Energy Supercluster Annual Meeting.

March 4, 2013. Keske, C.M.H. Mountains of value: findings and implications from economic research on Colorado Mountains. Institute of Arctic and Alpine Research (INSTAAR) Seminar. Boulder, Colorado.

September 10-13, 2012. Keske, C.M.H. Visitor willingness to pay U.S. Forest Service recreation fees in New West rural mountain economies. Long Term Ecological Research Grant All-Scientists Meeting (LTER-ASM). Estes Park, Colorado.

May 23, 2012. Keske, C.M.H. Energy, Technological Innovation, and Long Term Economic Stability: Fun Dialogue About Economic Theory and GEO-Sponsored Project Updates. Colorado Energy Office Invited Lecture.

April 18, 2012. Keske, C.M.H. Energy, Technological Innovation, and Long Term Economic Stability. Colorado State University Clean Energy Supercluster Annual Meeting.

April 18, 2012. Pearson, C.H. and Keske, C.M.H. Developing Low-Input, High Biomass, Perennial Cropping Systems: Sustainable Biomass Resources for Western Colorado. International Biomass Conference. Denver, Colorado.

February 10, 2012. Bastian, C.T., D. M. McLeod, G. McGaffin, C.M. Keske, and D. L. Hoag. Can the market for conservation easements evolve to efficiency? Implications from landowner and land trust preferences. University of Wyoming Seminar Series. (Presented by Bastian).

November 8, 2011. Keske, C.M.H. Update: Using Mountain Ecosystem Services to Provide Sustainable Economic Growth and Job Development in Rural Communities. Panelist and presenter at The AFRI-Small and Medium Sized Farms & Rural Development FY 2012 Project Director Meeting, Miami, FL. Hosted by The Northeast Regional Center for Rural Development at:
<http://nercrd.psu.edu/AFRI.PD.Meeting/2012.CombinedPD.Mtg.Pres.html>

June 2, 2011. Bastian, C.T., D. M. McLeod, G. McGaffin, C.M. Keske, and D. L. Hoag. What are landowners looking for in a conservation easement? Results from a survey, Invited and presented at the 2011 Wyoming Conservation Easement Conference. University of Wyoming College of Law Rural Law Center. (Presented by Bastian).

April 20, 2011. Cotrufo, M.F., M. DeFoort, C.M.H. Keske, C. Stewart, J. Field, G. Lohman, and J. Zheng. Biochar: An Assessment of Potential Energy, Environmental, and Economic Benefits. Poster Presentation at Colorado State University Clean Energy Supercluster Annual Meeting.

April 20, 2011. Graff, G., T. Iverson, C. Keske, S. Evans, and L. Hans. Developing a Technology-Neutral Benefit Pricing Policy for the Electricity Sector. Poster Presentation at Colorado State University Clean Energy Supercluster Annual Meeting.

April 20, 2011. Keske, C.M. Undergraduate Curriculum Development for an Interdisciplinary Bioenergy Concentration. Poster Presentation at Colorado State University Clean Energy Supercluster Annual Meeting.

April 20, 2011. Keske, C.M. and G. Lohman. Biochar: An Economic Assessment of the Viability in the State of Colorado. Poster Presentation at Colorado State University Clean Energy Supercluster Annual Meeting.

March 24, 2011. Keske, C.M. Regional Economic Considerations for Biofuel/Biomass Production. Western Colorado Carbon Neutral Bioenergy Consortium (WCCNBC) Conference "Biomass for Biofuels: Economic Development in Western Colorado. Colorado Mountain College. Rifle, Colorado. Available online:
<http://www.youtube.com/watch?v=vTjw6yeDeFM>

March 3, 2011. Callahan, M., D. Zimmerle, T. Bradley, C.M. Keske, and R. Duthu. Financial Models for Electric Utility Market Transformation. Poster presentation at Joint Institute for Strategic Energy Analysis Annual Meeting. Golden, Colorado.

November 22, 2010. Keske, C.M.H. USDA AFRI NIFA AFRI – Rural Development Project Director's Webinar. Using Mountain Ecosystem Services to Provide Sustainable Economic Growth and Job Development in Rural Communities. <http://nifa-connect.nifa.usda.gov/p69718383/>

March 5, 2009. Davis, J.D. and C.M. Keske. Nitrogen Deposition in Rocky Mountain National Park. Science on the Hill. United States Capital Building.

October 22, 2009. Keske, C.M. Using Mountain Ecosystem Services to Provide Sustainable Economic Growth and Job Development in Rural Communities. Annual Project Director's Meeting, U.S. Department of Agriculture NIFA/NRI Program. Washington, D.C.

September 14, 2009. Keske, C.M. Regional Economic Development & Net Economic Values of Public Access to Colorado Fourteeners. Long Term Ecological Research Grant All Scientists' Meeting Poster Session. Estes Park, Colorado.

April 17, 2009. Keske, C.M. Risk and Women in the Legal Profession. Wyoming Women's Legal Forum. Saratoga, Wyoming.

October 15, 2008. Bastian, C. T., C. M. Keske, D. L. Hoag, D. M. McLeod and A.D. Miller. Factors Impacting the Potential Supply of and Demand for Development Rights in the Emerging Market for Conservation Easements, Invited Seminar Presentation at Colorado State University, Department of Agricultural and Resource Economics. (Presented by Bastian).

November 13, 2008. Keske, C.M. Poster Presentation, Economics, Agriculture and the Environment. Institute for Livestock and the Environment Stakeholder Research Symposium, Golden, Colorado.

July 28, 2008. Bastian, C. T., D. M. McLeod, D. L. Hoag, C. M. Keske, and A. D. Miller. Factors Affecting Rural Land Preservation: Agricultural Production and Amenity Preservation Through Emerging Markets, USDA National Research Initiative Grant Program Project Directors Meeting, New Hampshire.

August 2, 2007. Bastian, C.T., D.M. McLeod, D.L. Hoag, C.M. Keske, and A. Miller. Factors Affecting Conservation Easements for Rural Land Preservation: Agricultural Production and Amenity Preservation through Emerging Markets, Rural Sociological Society Meeting. Santa Clara, CA.

September 8, 2007. Keske, C.M. The Economic Value of Colorado Fourteeners: A Summary of the Research to Date. 2007 Friends of the Forest Trail Maintenance Kick-Off. Alma, Colorado.

March 8, 2007. Keske, C.M. Regional Economic Development & Net Economic Values of Providing Access to Colorado 14ers: Important Considerations for Non-Profit Organizations. Seminar with Colorado Fourteeners Initiative and Colorado Mountain Club.

June 20, 2007. Miller, A., C.T. Bastian, D.M. McLeod, C.M. Keske, and D.L. Hoag. Agricultural Landowners' Preferences for Conservation Easements and Conserving Amenities. 13th International Symposium on Society and Resource Management (2007), Salt Lake City, Utah.

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July 7, 2005. Keske, C.M. Market Days: Using Active Trading to Teach Market Fundamentals to Undergraduate Economics Students. Western Agricultural Economics Association Annual Conference (2005) San Francisco, California.

September 9, 2004. Keske, C.M. Market Days: Using Active Trading to Teach Market Fundamentals to Undergraduate Economics Students. Economics and the Classroom Conference sponsored by Idaho State University (2004) Jackson Hole, Wyoming.

October 23, 2001. Keske, C.M. Digital disposable hearing aids: The next generation of technology. Academy of Dispensing Audiologists Annual Conference (2001) Asheville, North Carolina.

September 10, 1998. Keske, C.M. The audiologist as a communication link between industry and the office. Academy of Dispensing Audiologists Annual Conference (1998) Monterey, California.

February 19, 1998. Keske, C.M. The Role of the Audiologist in the Hearing Aid Industry. Minnesota Academy of Audiology Annual Conference (1998) St. Paul, Minnesota.

October 17, 1996. Smriga, D.A., and C.M. Keske. Using Loudness Mapping to Fit WDRC Hearing Aids. Academy of Dispensing Audiologists Annual Conference (1996) Las Vegas, Nevada.

May 13, 1994. Hall, J.W. and C.M. Keske. Clinical experience with central auditory processing disorders (CAPD). American Academy of Audiology Annual Conference (1994) Richmond, Virginia.

July 19, 1993. Hoemann, H.W. and C.M. Keske. Proactive interference and language change in hearing adult students of American Sign Language. American Psychological Association Annual Conference (1993) Toronto, Canada.

Non-Refereed News Articles/Briefs/Popular Press/Chapters/Proceedings/:

Keske, Catherine, 2022, UC-Merced Research Center Aims to Improve Yields, Production Efficiency through Internet of Things. *Progressive Crop Consultant*. July/August 2022 Issue, pp. 32-35.

Keske, Catherine, 2021, Does Canceling Class Cancel University Culture? Op-Ed, *Fresno Bee, Merced Sun-Star*. April 25, 2021. <https://www.fresnobee.com/opinion/article250894964.html>

Keske, Catherine, 2020, Fast-food Is Comforting, But in Low Income Areas It Crowds Out Fresher Options. *The Conversation: Energy & Environment, Analysis and Comment*. June 29, 2020. <https://theconversation.com/fast-food-is-comforting-but-in-low-income-areas-it-crowds-out-fresher-options-136227>

Troy Bauder, **Catherine Keske**, Erik Wardle, 2012, Nutrient Best Management Practices: Assessing Adoption by Colorado Producers. *Nutrient Digest*, a publication of the WERA 103 Committee. Fall 2012, 4(3): 1-3. http://water.usgs.gov/wrri/AnnualReports/2012/FY2012_CO_Annual_Report.pdf

Troy Bauder, **Catherine Keske**, Erik Wardle, 2012, Nutrient Management Practices and Groundwater Protection: Assessing Adoption by Colorado Producers. Colorado Water Institute. Colorado Water: Newsletter of the Colorado Water Institute at Colorado State. 29(4): 8-11.

Andrew Brandess*, **Catherine Keske**, Can Erbil, The Viability of Butanol as a Biofuel Option in Western Colorado, United States Association for Energy Economics, September 2011, http://dialogue.usaee.org/index.php?option=com_content&view=article&id=148&Itemid=554

Keske, C.M.H., 2011, How Lawsuits Could Ignite an Energy Market: The Case of Anaerobic Digestion, The Berkeley Electronic Press, http://works.bepress.com/catherine_keske/1/.

Andrew Brandess*, **Catherine Keske**, Can Erbil, Gold of Pleasure, *Dialogue*, United States Association for Energy Economics, May 2011, http://dialogue.usaee.org/index.php?option=com_content&view=article&id=132&Itemid=364.

Hoag, Dana, Catherine Keske, and John Hewlett. 2011. *SRMP Small Business Edition*. Specifically designed to help non-commercial and lifestyle operations create and customize a personal risk management plan. http://rightrisk.org/strategicriskmgmt/SRMBooklet_SmBusEd.pdf

Anne Nolin, Peter Adler, Dominique Bachelet, John Campbell, Robert Crabtree, Kelly Gleason, James Gosz, Kathleen Kavanagh, **Catherine Keske**, Tim Link, Marcy Litvak, Jessica Lundquist, Roger Ruess, Mark Williams. *When Winter Wanes: Biotic Impacts of Changing Climate and Disturbance Regimes on Seasonally Snow-covered Ecosystems from the Watershed to Continental Scale*. National Science Foundation White Paper. July 9, 2011.

Keske, C.M., 2010, Landowner Motivations for Conservation Easements: Research Shows that Conservation Ethic Dominates, Editorial In: *Saving Land*, 29(1), pp. 9.

Keske, C.M., 2007, The Human Perspective. Our Valuable Fourteeners, Commentary by Catherine Keske, Colorado State Magazine. (Winter 2007-2008), 47, pp. 7.
<http://www.engr.colostate.edu/comm/pubs/pdfs/CSM/COst0708wntr.pdf>

Other (e.g. lab texts, book reviews, technical reports, in-house reports):

Elliott, Nathan, Daniel Nadolny, Bernard Wills, Ivan Savic, Johnathan Pope, Ingrid Mary Percy, Laura Robinson, Bonnie White, **Catherine Keske**, Ken Jacobsen, and Lynn Kendall, 2006, Trump-osium: Exploring the phenomena that is Donald Trump (Part 1 and Part 2). Memorial University Research Repository. October 4, 2016. Available at: <http://research.library.mun.ca/12330/>, <http://research.library.mun.ca/12331>

Bauder, T., **C.M.H. Keske**, and E. Wardle. Assessing Adoption of Nutrient Management Best Management Practices by Colorado Producers. *CSU Colorado Water Institute Technical Report*. June 2012. Institute for Livestock and the Environment (ILE) Bylaws, Incorporated November, 2009, **Keske** as lead author, with review and revision from J. Davis and ILE Leadership Team.

Keske, C.M. and J.B. Loomis, 2008, Colorado Fourteeners: Estimating a Price on the Priceless. A Primer on When and How to Apply Economics to the Environment, CSU Economic Development Report, January 2008. 08-03.

Keske, C.M., 2008, Public Comment to Bureau of Land Management Environmental Impact Statement on Oil Shale and Tar Sands Development.

Loomis, J.B. and **C.M. Keske**, 2008, When Nothing Else 'Will Do': Colorado Fourteeners and the Effect of Limited Substitutes on Recreation Economic Benefits. *CSU Economic Development Report*, July 2008. 08-06.

Keske, C.M., 2007, The Value of Fourteener Recreation: An Economic Study of the Colorado Fourteeners, CFI: Colorado Fourteener Initiative Bi-Annual Outreach Publication, (2007), 10:1.

Keske, C.M., S. Gripne, and L. Sherrod, 2007, Update on Conservation Easements: What Every Colorado Landowner Should Know, CSU Economic Development Report, May 2007 and August 2007: 07-12 and 07-18.

Keske, C.M. and J.B. Loomis, 2007, The Economics of Colorado Fourteeners: Research Summary, CSU Economic Development Report, August 2007: 07-19.

Keske, C.M. and J.B. Loomis, 2007, Quick Fact Sheet on the Economics of Colorado Fourteeners, CSU Economic Development Report, August 2007: 07-20.

Keske, C.M., D.L. Hoag, R.L. Goldbach*, and J. Parsons, 2007, Strategic Risk Management Planning for Agricultural Women: Managing the Risks That You Can Control...and Letting Go of the Ones that You Can't. Technical Paper, Colorado State University, October 2007.

Keske, C.M., 2006, *Mountain Area Land Trust Volunteer Conservation Easement Stewardship Training Manual*. Developed template for stewardship monitoring plans for 25 conservation easement properties.

Keske, C.M. Colorado's Fourteeners: Public Display of Affection VS. Private Property. CFI: Colorado Fourteener Initiative Annual Publication, (2004), 7:2.

Keske, C.M., Quarterly Manufacturing Partners Column, Merge Ahead! Feedback: Journal of the Academy of Dispensing Audiologists, (2000), 11:1.

Keske, C.M., Quarterly Manufacturing Partners Column, Doctor, Doctor Give Me the News. Feedback: Journal of the Academy of Dispensing Audiologists, (2000), 11:2.

Keske, C.M., Quarterly Manufacturing Partners Column, Feeding Your Practice, Feedback: Journal of the Academy of Dispensing Audiologists, (1999), 10:1.

Keske, C.M., Quarterly Manufacturing Partners Column, Expanding the Scope of Your Practice—and Your Bottom Line, Feedback: Journal of the Academy of Dispensing Audiologists, (1999), 10:2.

Keske, C.M., Quarterly Manufacturing Partners Column, The Impact of Digital Hearing Instruments on Audiology Practices: A Manufacturer's Perspective, Feedback: Journal of the Academy of Dispensing Audiologists, (1999), 10:3.

Keske, C.M., Quarterly Manufacturing Partners Column, Can Tinnitus Be Music to Your Ears? Feedback: Journal of the Academy of Dispensing Audiologists, (1999), 10:4.

Barker, A.M. and **C.M. Keske**. (1998). Directional Microphones. Lori Medical Laboratories Technical Paper Series.

Keske, C.M. and A.M. Barker (1998). Open Digital Primer. Lori Medical Laboratories Technical Paper Series.

Keske, C.M. and A.M. Barker (1998). Loudness Mapping. Lori Medical Laboratories Technical Paper Series.

Keske, C.M. and J.M. Coverstone. Now That We're Digital, Where Do We Go From Here? Appearing in *On the Move!* (Fall 1998). Bi-annual newsletter for Members of the Minnesota Academy of Audiology.

Extension Newsletters (Identified as Editor or Contributor):

Editor

Keske, C.M. 2009. Editor. Ag Women and Risk Newsletter, CSU College of Agriculture Volume 2, Issue 2 (Fall 2009).

Volume 2, Issue 2 (Spring 2009).

Volume 1, Issue 1 (Fall 2008). http://www.agsci.colostate.edu/news/Ag_Women_12_08_final_web.pdf

Contributions to Newsletters:

Keske, C.M., 2009, A Waste of Energy? Two CSU Professors Study the Feasibility of Anaerobic Digestion, CSU The Salt Lick Newsletter, Volume 1, Issue 4 (October 2009).

Keske, C.M., 2009, Feature Story: Using Horsepower to Cut Costs, Ag Women and Risk Newsletter. Issue 2 (Spring 2009).

Keske, C.M. and Lohman*, G., 2009, A New Source of Labor on the Western Slope: Teens on Farms, CSU Ag Women and Risk Newsletter, Volume 2, Issue 2 (Fall 2009).

Keske, C.M., 2008, Feature Story: "Criating" a Successful Business, Ag Women and Risk Newsletter. Issue 1 (Fall 2008).

Keske, C.M. and R.L. Goldbach*, 2008, Ag Women and Risk' Research: Results from the CSU Gender and Risk Study, Ag Women and Risk Newsletter. Volume 1, Issue 1 (Fall 2008).

Keske, C.M., 2007, Conservation Easements Offer Ranchers the Opportunity to Leave an Enduring Legacy. Colorado Livestock Association Weekend Edition, Colorado State University Livestock Links Column. November 2, 2007, 8, pp. 45.

HONORS AND AWARDS

2015 Outstanding Reviewer, Elsevier

2014 Comisión Aseasora en Alta Tecnología (CAATEC—Costa Rica High Technology Advisory Committee.

2014 Distinguished Visiting Professor, Tecnológico de Costa Rica, Escuela Administración de Empresas

2013 Western Extension Award of Excellence for Exploring Energy Efficiency and Alternatives (E³A Program)

2008 Annual Outstanding Stewardship Award for Jefferson, Clear Creek and Park Counties, Sponsored by Mountain Area Land Trust in Evergreen, CO.

2004-2005 Colorado State University Doctoral Recruiting Scholarship

2004 Hubert and Sarah Risser Award for Outstanding Academic Achievement in Economics, Colorado School of Mines.

2002-03; 2003-04; 2004-05 Darlene Pauli Memorial Scholarship, Colorado School of Mines (3 time recipient)

1997 Great Nordic-Americas, GN Danavox Employee of the Year

1995 Certificate of Clinical Competence, Audiology (CCC-A) by American Speech, Language Hearing Association (ASHA)

1994 Clinical Fellowship, Audiology (CFY-A) by American Speech, Language Hearing Association (ASHA)

1992-93; 1993-94 Vanderbilt University School of Medicine Full Tuition Scholarship (2-time recipient)

1992 Board of Trustees Fellowship, Bowling Green State University

1992 E.L Moseley Scholarship for Student Leadership, Bowling Green State University

1992 Administrative Staff Council Scholarship, Bowling Green State University

1990-91, 1991-92, 1992-93 Alumni Book Scholarship, Bowling Green State University

1990-91 Bob Bashore Honors Scholarship, Bowling Green State University

1990 Kiyo Kitahara Educational Scholarship, Bowling Green State University

1988 University of Dayton Supplemental Athletic Scholarship, Cross Country

1988 Pillsbury Community Service Scholarship

SOFTWARE DEVELOPMENT AND BUDGETING TOOLS

Godfrey, T., **Keske, C.**, Mills, M. and J. Abedin. 2018. Enterprise Budget: Biochar Production at Muskrat Falls.

Hoag, D., Griffith, D., Parsons, J., Hewlett, J., Fathelrahman, E., **Keske, C.** Pritchett, J., and A. Sprague. 2015. Agsurvivor.com Available at: <https://agrisk.umn.edu/Library/Record/agsurvivorcom>

Keske, C., Pearson, C., Hoag, D., and A. Brandess. 2014. Western Colorado Perennial Grass and Biomass Budget Generator. Agricultural Experiment Station Report 14-03. Tool available at: <https://dspace.library.colostate.edu/handle/10217/82688>

Sharvelle, S., Keske, C., Davis, J., and J. Lasker. 2011. Anaerobic Digestion at Colorado Cattle Operations. Tool available at: https://erams.com/AD_feasibility_ad_tool/

Online Decision Tool for Anaerobic Digestion at Colorado Cattle Operations: User Manual. National Resources Conservation Service, December, 2011.

https://erams.com/static/map/css/AD_feasibility/files/Technical%20Guide%20for%20the%20use%20of%20an%20Online%20AD%20Feasibility%20Tool%20for%20Colorado_FINAL.pdf

Hoag, D., Griffith, D., Parsons, J., Hewlett, J., Fathelrahman, E., Keske, C., Pritchett, J., and A. Sprague. 2009. Risk Navigator Strategic Risk Management Tools. Tools available at: www.risknavigatorsrm.com

Languages

English (Native); American Sign Language (Fluent); French (Proficient in Reading, Familiar with Spoken)

BROADCASTS, PRODUCTIONS, FEATURE INTERVIEWS: By broadcast affiliate, host, show, and date.

Radio

Canadian Broadcasting Corporation (CBC)

CBC News Labrador Morning Show

Book Launch: *Food Futures: Growing a Sustainable Food System for NL.*

Live interview with Bailey White. June 20, 2018.

CBC News “On the Go” Podcast

Book Launch: *Food Futures: Growing a Sustainable Food System for NL.*

Interview with Ted Blades aired June 15, 2018.

Economic feasibility of potato production.

Interview with Jane Adey aired July 27-July 31, 2015.

Food security, food sovereignty, and the NL agricultural supply chain.

Live Interview with Todd O'Brien. Jan. 30, 2015.

CBC News “Corner Brook Morning Show”

Implications of Canada’s National Carbon Pricing Scheme. December 12, 2016.

Results of the U.S. Election: Debrief. November 9, 2016.

Carbon Pricing: What It Means for to You. October 5, 2016.

Discussion on the First U.S. Presidential Debate. September 27, 2016

Two Americans Living in Canada Weigh in on the U.S. Presidential Election. March 2, 2016.

Podcast available at: <http://www.cbc.ca/player/play/2684745066>

Food security and agricultural economics in Newfoundland and Labrador. March 26, 2015.

Homegrown: trends in agricultural economics and small-scale production. November 5, 2014.

CBC’s “Atlantic Voice”.

The Blossoming of Crow Brook Orchard by Lindsay Bird. November 3, 2015.

Podcast available at: <http://www.cbc.ca/news/canada/newfoundland-labrador/crow-brook-orchard-increasing-food-security-1.3303953>

CBC’s “The Central Morning Show with Leigh Ann Power”.

Food security in central Newfoundland. April 1, 2015.

CBC’s “Cross Talk with Ramona Dearing”.

Results of the U.S. election and what it means to you. November 9, 2016.

Food security and fresh food in Newfoundland and Labrador. March 26, 2015.

Other Radio News Interviews, PodCasts, and Productions

“California Ag Today” with Tim Hammerich

UC Merced Engineering Center to Focus on Ag Technology. November 11, 2020.

<https://www.aginfo.net/report/47746/California-Ag-Today/UC-Merced-Engineering-Center-to-Focus-on-Ag-Technology>

Food Chain Radio Show #1244

How Does Fast Food Displace Good Food? Interview with Michael Olson. August 28, 2020.

Broadcast with 18 radio stations nationally and available through podcast:

<https://metrofarm.com/michael-olson/fast-food-weeds/>

Food Security in Merced County and California’s Central Valley

KYOS 1480 AM and 107.3 FM Community Conversations with Roger Wood. June 20, 2020.

900 Improperly Labeled Food Products from China Intercepted Over Two-Year Period

VOCM 590 AM News Interview with Linda Train. July 16, 2019.

<https://vocm.com/2019/07/16/900-improperly-labeled-food-products-from-china-intercepted-over-two-year-period/>

FM 88.9 Capital Public Radio: CapRadio “YosemiteLand” Podcast Series

Monday series broadcast July 16-September 16, 2018 by Ezra David Romero (host/reporter)

Trailer: <http://www.caprado.org/news/yosemiteland/2018/07/11/yosemiteland/yosemiteland/>

“Selfie Trap”: <http://www.caprado.org/news/insight/2018/07/16/insight-071618b/>

Insight with Beth Ruyak: <http://www.caprado.org/news/insight/2018/07/16/insight-071618b/>

Insight with Beth Ruyak July 23, 2019: “YosemiteLand, Janet Fitch, and Wayne Wallace”

<http://www.caprado.org/news/insight/2019/07/23/yosemiteland-janet-fitch-and-wayne-wallace/>

Insight with Beth Ruyak July 23, 2019: “YosemiteLand: From Majestic Landscapes to Lattes”

<https://www.caprado.org/news/insight/2019/07/23/yosemiteland-from-majestic-landscapes-to-lattes/>

Food Futures: Working toward Healthy, Sustainable Food

VOCM 590 AM News Live Interview with Paddy Daly. June 20, 2018.

<http://vocm.com/news/food-futures-working-toward-local-sustainable-food/>

Grenfell Project Looks at Returning Food in NL to Sustainability

VOCM 590 AM News Interview and Article. August 14 and 15, 2015.

<http://www.vocm.com/newsarticle.asp?mn=2&id=56680&latest=1>

VOCM 590 AM News, St. John’s live with Fred Hutton

Preventing food waste. October 28, 2015.

Food safety and meat inspection in Canada. June 3, 2015.

Food security and the Newfoundland Labrador food supply chain. April 9, 2015.

St. Anthony 102.5 FM Community Radio.

Food Security and Food Sustainability in the Great Northern Peninsula. October 22, 2015.

Bay St. George Live! –

L’Association Regionale de la Côte-Ouest (ARCO) (Les Terre-Neuviens français, Cap Saint-Georges) 102.5 FM. Friday, June 12, 2015

Northern Ag Network Powerful Voice of the West: News and Voices in Agriculture w/ Kristi Pettis & Haylie Shipp.

Learn to Manage Your Risk. October 3, 2008.

Commodity Price Volatility and Other Agricultural Risks. May 24, 2008.

Saturday Morning Farm Equipment Show with Keith Maxey, 1310 KFKA News Talk Radio

Economics of Using Anaerobic Digesters for Animal Waste Management. October 17, 2009.

Economics Using Anaerobic Digesters for Animal Waste Management. November 8, 2008

Choosing Your Risk Preferences and Mitigating Your Financial Risk. April 5, 2008.

Agricultural Conservation Easements. December 13, 2007.

Women in Agriculture and the Risks that Women Face: Part II. October 13, 2007.

Women in Agriculture and the Risks that Women Face: Part I. September 22, 2007.

Colorado Matters, with Ryan Warner on Colorado Public Radio

People Spend Hundreds Climbing Fourteeners.

August 7, 2007; August 11, 2007; August 12, 2007 (KCFR); August 13, 2007 (KUNC).
<http://www.cpr.org/news/story/people-spend-hundreds-climb-fourteeners>

Colorado Agricultural News Network Radio Broadcast with Lorrie Boyer (19 Stations)

Using Cost Effective Management Practices in a Down Economy. February 10, 2009.

Teens on Farms: Using Teens as a Source of Summer Labor. October 30, 2009.

Farm Bill's Expanded Definition of Livestock and Other Agricultural Risks. December 12, 2008.

Women in Agriculture and the Risks that Women Face: Part IV. October 10, 2007.

Women in Agriculture and the Risks that Women Face: Part III. September 12, 2007.

Cowboy Poetry, Western Heritage and a Community's Sense of Place. September 5, 2007.

Women in Agriculture and the Risks that Women Face: Part II. July 25, 2007.

Women in Agriculture and the Risks that Women Face. April 9, 2007.

Research on Conservation Easements. December 27, 2006.

Television

KSEE-24 NBC News

UC Merced research aims to use biochar to reduce methane emissions from dairies: The interdisciplinary project will take advantage of local resources. Dennis Valero, reporting. February 28, 2019. Link to story and video:

<https://www.yourcentralvalley.com/news/uc-merced-research-aims-to-use-biochar-to-reduce-methane-emissions-from-dairies/1818853350>

University of California Television ("UCTV"), Sustainable California Series

Managing private land for public benefit. Posted September 24, 2018.

Link to Video on UCTV:

<https://www.uctv.tv/sustainable-cal/search-details.aspx?showID=33986>

This program and other videos are available online on UCTV's web site at www.uctv.tv

NTV-4 News with Dan Bradshaw, First Edition and The Carter File

Food security and Boreal Ecosystem Research Initiative (BERI). March 25, 2015.

Mali National News, LeJournal, Station ORTM

Livestock and climate change: biogas and manure management. Broadcast February 16, 2011 and February 17, 2011.

Broadcast NBC-11-News, Grand Junction, Colorado

Gender risk: management tools for women in agriculture. February 3, 2009.

Rogers Cable Corner Brook Café

Agriculture and food security in Newfoundland and Labrador. January 26, 2016.

Food security and food sovereignty: Where have we been and where are we going?

March 17, 2016.

Fox WRGT-TV45 Kids' Time

Children's On-Air Television Show Hostess. August 1988-August 1989.

See *Dayton Daily News* March 16, 1989 <https://www.newspapers.com/newspage/407110062/>

Featured Public News Stories

San Francisco Chronicle

Narayan, Shwanika and Jung, Yoohyun. (April 4, 2022). The number of 911 calls from one S.F. McDonald's underscores a crisis in the fast-food world. Story [here](#)

West Coast Nut

Parsons, Cecilia. (April 19, 2022). Investing in new technology? Five questions to ask before you make the plunge. *West Coast Nut*. Story [here](#)

Merced County Times

Barela, Beverly. (August 12, 2021). UC professor explains issue of food insecurity. *Merced County Times* Volume 57(31), 9.

Capital Public Radio

Romero, Ezra David. (July 17, 2018). When Yosemite met Starbucks: How the National Park is rethinking its identity amid tourism, commercialization and 'Selfie Traps'. *Capital Public Radio Environment*. <http://www.caprudio.org/118889>

The Telegram

Wong, M. (June 25, 2018). The push is on to grow local in N.L. Syndicated news story, published by >12 Canadian news sources, including [SaltWire](#).

Downhome Magazine

Brown L. (September, 2016). Home grown: How to stave off a food crisis and stock our own food supply. *Downhome* 29(4), 116-121.

Brown L. (October, 2016). Back to his roots. *Downhome* 29(5), 110-113.

Western Star

Crocker, D. (February 22, 2016). Presenter sees local interest in food security and food sovereignty. *Western Star*.

Crocker, D. (March 25, 2015). Researcher looking at cost effectiveness, commercial viability of growing food locally. *Western Star*. Syndicated news story, published by >30 Canadian news sources.

High Country News

Quillen, Ed. (June 15, 2010). Why not fees on Fourteeners?
<https://www.hcn.org/articles/why-not-fees-on-fourteeners>

Fox 31 News Denver

Tomer, Chris (August 17, 2017). Study: Fourteeners are busier than previously thought.
<https://kdvr.com/2017/08/18/the-14ers-are-busier-than-previously-thought/>

9News Denver

Gander, Sara (August 14, 2007). Fourteeners bringing in dollars.
<https://www.9news.com/article/news/local/fourteeners-bringing-in-dollars/73-343749849>

Denver Post-Boulder Daily Camera-Associated Press

Syndicated >100 outlets. (August 12, 2007). 14ers adding to Colorado economy.

Fourteener Study Media Mentions

Wondra, Jan. Record-Breaking 2020 Foot Traffic on Colorado's 14ers. June 28, 2021. *Ark Valley Voice*. <https://arkvalleyvoice.com/record-breaking-2020-foot-traffic-on-colorados-14ers/>

University Featured Stories, News, and Media Spotlight

University of California-Merced

UC-Merced Magazine (February 7, 2022). Growing Expertise: UC-Merced as Ag Tech School. Volume XVI, Issue I, pages 5-6. <https://externalrelations.ucmerced.edu/quick-links/uc-merced-magazine>

Arakelian, Elizabeth. (November 10, 2021). Keske Publication Shows Central Valley Ripe for Biochar. <https://news.ucmerced.edu/news/2021/keske-publication-shows-central-valley-ripe-biochar-studies>

Anderson, Lorena. (August 3, 2020). New Engineering Research Center to Focus on Agriculture Technology. <https://news.ucmerced.edu/news/2020/new-engineering-research-center-focus-agriculture-technology>

Mashinchi, Kenneth. (February 19, 2019). Researchers Hope to Tackle Methane Emissions in Manure Through Use of Biochar. <https://news.ucmerced.edu/news/2019/researchers-hope-tackle-methane-emissions-manure-through-use-biochar>

UC-Merced Media Mentions:

- UC-Merced School of Engineering. Welcome to UC-Merced. Highlighting School of Engineering Undergraduate Programs. <https://uc-merced.foleon.com/public-relations/school-of-engineering-spring-2021/home/>
- SOM. How a Growing Campus Reached Carbon Neutrality in Record Time. <https://som.medium.com/how-a-growing-campus-reached-carbon-neutrality-in-record-time-4e039f23fee6>
- Bernacchi, Leigh. UC-Merced Professors Collaborate to Solve Big Problems in the Central Valley. November 15, 2020. <https://citris-uc.org/uc-merced-professors-collaborate-to-solve-big-problems-in-the-central-valley/>
- UC-Merced School of Engineering. UC-Merced Research Centers and Institutes e-Publication October 22, 2020.
- UC-Merced School of Engineering. August 5, 2020. Two New NSF Funded Research Centers Coming to UC Merced <https://engineering.ucmerced.edu/news/2020/two-new-nsf-funded-research-centers-coming-uc-merced>
- University of California-Merced *Instant Magazine*. The Future Of...Leadership: People, Planet, Profit Give New Management Program Its Unique Focus. <https://uc-merced.instantmagazine.com/public-relations/people-planet-profit/peopleplanetprofit/>
- World Food Day Author Talk with Catherine Keske, October 18, 2018: <https://library.ucmerced.edu/news/2018/faculty-author-series-food-futures-edited-catherine-keske>
- Yosemite Podcast Features Faculty, Free Tacos and Farewell to Summer News and Notes, July 17, 2018: <https://news.ucmerced.edu/news/2018/news-and-notes-yosemite-podcast-features-faculty-free-tacos-and-farewell-summer>

Educational Video Features:

- UC Merced Environmental Systems Graduate Group. The Environmental Systems Graduate Program trains students to tackle the most challenging problems facing our planet – water, soil, climate, energy and resources. https://www.youtube.com/watch?time_continue=134&v=RzSdPKRWlzs&feature=emb_logo

Memorial University

Herron, Janet. (June 13, 2018). Food Futures: HSS-led book on advancing food security and sovereignty in N.L. <https://gazette.mun.ca/research/food-futures/>

Face Forward: The people and stories of Memorial. Food for Thought: Food and Water Security. <http://www.mun.ca/faceforward/2015/july> July 2015.

“Trump-osium”

Exploring the phenomenon that is Donald Trump. October 5, 2016

Post-election Redux. November 22, 2016

Digitally Archived at: <https://research.library.mun.ca/12330/>

Yukon College

Resources and Sustainable Development in the Arctic. (July 31, 2017). This team wants to find out how communities can handle and even benefit from the waste created by resource development <http://yukonresearch.yukoncollege.yk.ca/resda/wp-content/uploads/sites/2/2017/08/Catherine-Facebook-finalweb-PL.pdf>

University of Colorado-Boulder

Sommer, Shelly. (June 19, 2013). Fields of gold: Can camelina be a biofuel that high country farmers could grow and use themselves?

<https://instaar.colorado.edu/news-events/instaar-news/fields-of-gold-can-camelina-be-a-biofuel-that-high-country-farmers-could-gr/> Syndicated news story, published >30 sources throughout U.S.

University of Denver Sturm School of Law

Environmental and Natural Resources Law and Policy Program, *Environment21*

- Adjunct Professor Catherine Keske Involved in Major Environmental Quality Project in Mali, West Africa. August 17, 2011 <http://enrlgp.blogspot.com/2011/03/adjunct-professor-catherine-keske.html>
- Denver Law Adjunct Professor Catherine Keske Studies how to Convert Animal and Food Waste to Energy. March 3, 2011. <http://enrlgp.blogspot.com/2011/03/adjunct-professor-catherine-keske.html>
- Warp Speed Ahead! Implications for the Environment: Dr. Catherine Keske Reports From China. July 23, 2010. <http://enrlgp.blogspot.com/2010/07/warp-speed-ahead-chinas-new-economy-and.html>

Colorado State University

Colorado State University Superclusters' Clean Energy Annual Research Report (2010-2011), photo/bio featured on front page. Available at: www.catherinekeske.com

Colorado State University Media Mentions:

- Researchers work to price energy based on its cost to the environment. July 9, 2010. <https://today-archive.colostate.edu/storya993.html?id=4102>

- Rail Ascent to Mountain Peaks Could Generate High Economic Benefits but Impact Hiking Experience, CSU Study Shows. January 29, 2008.
<https://publicrelations.colostate.edu/2008/01/29/rail-ascent-to-mountain-peaks-could-generate-high-economic-benefits-but-impact-hiking-experience-csu-study-shows/>
- Price Put on Fourteeners by Colorado State University Research. September 24, 2007.
<https://publicrelations.colostate.edu/2007/09/24/price-put-on-fourteeners-by-colorado-state-university-research/>

Clinics/Adjudications/Workshops

November 12, 2019. Moderator for “Bringing a Project to Completion” panel at “What Should We Do with Our Biogas?” Workshop organized by Sarah Kurtz of University of California-Merced. Merced, CA.

April 4, 2019. “Broader Impacts” Workshop Panelist, sponsored by UC-Merced Office of Research Development. Discussion revolved around the importance of addressing impact of science in a proposal and how broader impacts are regarded in the peer review process, based upon experience as a program officer and panel reviewer. University of California-Merced, Merced, CA.

November 2 & 3, 2016. Our Food, Our Future: Growing a Sustainable Food System for Newfoundland and Labrador. Symposium planning committee and workshop leader for “Ag Means Business”. St. John’s, Newfoundland, Canada.

November 19, 2009. Institute for Livestock and the Environment Second Annual Stakeholder Summit. Co-organized with Jessica Davis and Sarah Lupis of Colorado State University. Fort Collins, CO.

April 28, 2009. Institute for Livestock and the Environment Open House, sponsored by CSU School for the Environment and Global Sustainability (SOGES). Co-organizer with Jessica Davis and Katherine Sanchez Meador. Hosted by Colorado State University. Fort Collins, CO.

February 3, 2009. Organized Strategic Risk Management for Women in Agriculture: Labor Retention and Supply. Hosted by Colorado State University. Grand Junction, CO.

October 24, 2008. Organized Strategic Risk Management for Women in the Alpaca Industry Conference. Hosted by Colorado State University. Fort Collins, CO.

October 19, 2007. Organized Business and Risk Management Conference for Women in Agriculture: Owners, Operators, and Rookies. Hosted by Colorado State University. Greeley, CO.
<https://publicrelations.colostate.edu/2007/09/06/business-management-and-networking-conference-for-women-in-agriculture-subject-of-colorado-state-seminar/>

June 21, 2007. Organized Risk Management for Women in Agriculture: Owners, Operators, and Rookies. Organized by Colorado State University. Steamboat Springs, CO.
<https://publicrelations.colostate.edu/2007/04/17/risk-and-financial-management-for-women-in-agriculture-subject-of-colorado-state-seminar/>

TEACHING:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u>Cr. Hrs.</u>	<u>Semester Enrollment</u>
2019- 2022	Fall	ENVE/MIST 164 Energy Policy ENVE/ES/MIST 264 Energy Policy <i>Total classes: 2 conjoined & cross-listed</i> University of California-Merced	4	15 undergraduate 10 Ph.D. Management (MCS) & Environ Systems (ES)
2019- 2022	Spring	MIST 253/ES 292 Coupled Natural Human Systems <i>Total classes: 4</i> University of California-Merced	4	6-12 Ph.D. Environmental Systems (ES)
2019- 2021	Spring	MIST 208 Law, Policy, and Risk Management <i>Total classes: 3</i> University of California-Merced	4	10-16 Masters of Management
2019- 2020	Summer	MIST 210 Capstone <i>Total classes: 2</i> University of California-Merced	4	10-16 Masters of Management (MM)
2018- 2019	Fall	ESS/BIO 113 Sustainability in the Anthropocene <i>Hybrid/blended module delivered by 5 faculty</i> University of California-Merced	3	24-72 upper division undergraduate Gen. Ed.
2016- 2017	Winter/Fall	EVST 6057/SRM 4001 Energy Policy <i>Total classes: 2</i> Memorial University of Newfoundland	3	10 Masters/undergraduates
2016	Winter	EVST 6002 Research Design and Methods <i>Total classes: 1</i> Memorial University of Newfoundland	3	10 Masters of Environmental Policy
2015	Winter	ECON 2020 Macroeconomics <i>Total classes: 1</i> Memorial University of Newfoundland	3	50 undergraduates
2015	Winter	ECON/EVST 3085 Ecological Economics <i>Total classes: 1</i> Memorial University of Newfoundland	3	15 undergraduates
2008- 2014	Spring/Fall	LAWS 4452 Environmental Economics <i>Total classes: 8</i> University of Denver, Sturm School of Law	3	15-20 J.D./L.L.M.
2011- 2013	Summer	LAWS 4500 Public Utility Regulation <i>Total classes: 3</i> University of Denver, Sturm School of Law	3	10-25 J.D./L.L.M.
2010- 2012	Spring/Sum.	AGRI 638 Ecosystem Services on Ag Lands <i>Total classes: 4</i> Colorado State University	3	15 Masters of Ag

2010-2012	Spring	AGRI/ENGR 681 Bioenergy Assessment <i>Total classes: 3</i> Colorado State University	3	6-15 Ph.D.
2006-2008	Fall/Spring	AREC/ECON 335 Introduction to Econometrics <i>Total classes: 4</i> Colorado State University	3	sections of 40 undergraduates
2010	Spring	SOCR/CIVE 481 Waste and Water Recycling <i>Total classes: 1</i> Colorado State University	3	20 Masters/Ph.D.
2010	Fall	LAWS 4701 Energy Economics (online) <i>Total classes: 1</i> University of Denver, Sturm School of Law	3	10 J.D./L.L.M.
2006	Fall/Spr./Sum.	ECON 201 Macroeconomics <i>Total classes: 9</i> University of Northern Colorado	3	sections of 60 undergraduates
2004-2005	Fall/Spring	EPICS (Engineering Project Management) <i>Total classes: 3</i> Colorado School of Mines	3	15 undergraduates
2003-2004	Fall/Spr./Sum.	ECON 201 & 202 Micro and Macroeconomics <i>Total classes: 9</i> University of Northern Colorado	3	sections of 30 undergraduates

Course Descriptions

ENVE/MIST 164 and ES 264/MIST 264 Energy Policy: This course introduces recent development of energy policy and presents fundamental optimization and simulation tools for modeling firm and market behavior for the energy sector, with a focus on electric power. It is concurrently offered to graduate students and cross-listed between undergraduate courses. *University of California-Merced*

MIST 253 Coupled Natural and Human Systems: This course presents a continuum of research methodologies to students who are seeking a social science research phase for their biophysical research work. It is a required Foundational methods course for the Management of Complex Systems Ph.D. program at *University of California-Merced*.

MIST 210 Integrative Project and Case Studies in Sustainability: Through case studies of non-profit and for-profit enterprises and public institutions, this course focuses on how to align people, information, and resources effectively to meet the triple bottom line: value generation, ethical treatment of workers, and environmental sustainability. Students will learn to analyze organizational impacts and develop practices that foster a balanced ecosystem as well as organizational effectiveness and includes work on a team-based capstone project. The course is offered to Master of Management students at *University of California-Merced*.

MIST 208 Law, Policy, and Risk Management: This course uses theory, frameworks, and case studies to train students how to interpret and address law, policy, and risk in the management of the corporate, non-profit, and public sectors. Concepts include laws as individual rights and obligations scaled-up to society; policies as prevailing strategies to reconcile social, ecological, and economic

tensions; and risks as real or perceived exposure to loss of value for individuals, the environment, or the market. The course is offered to Master of Management students at *University of California-Merced*.

ESS/BIO 113 Sustainability in the Anthropocene: This course teaches intermediate-level concepts in sustainability and Anthropocene studies in the context of societal issues facing this and future generations. The goal is to help prepare students to effectively interpret, generate, and use data and multiple modes of communication in future venues as a researcher or a citizen. Students may qualify for General Education credits. I am one of five professors contributing to the course, with modules created on land conservation. *University of California-Merced*

ENVP 6002 Research Methods: This graduate-level course guides students through the research design process, qualitative methods, and quantitative methods that may be incorporated in environmental policy research. The course is intended to prepare students to design and implement their master's thesis. At the conclusion of the course, students deliver a presentation and paper related to the cumulative results of their semester-long project. *Memorial University*

ENVP 6057/SRM 4001 Energy Policy: This course covers domestic and international policies related to renewable and non-renewable energy sources. Particular emphasis is given to energy generated in Canada and the Atlantic provinces. The course was simultaneously offered to both undergraduates and graduate students. *Memorial University*

ECON 3085/EVST 3085 Ecological Economics: This cross-listed course is offered as part of environmental studies and economics undergraduate degrees. The applied economics course is intended to foster critical thinking about the trans-disciplinary field of ecological economics. The course also addresses conceptual and professional divides within the sub-disciplines of economics. *Memorial University*

LAWS 4500 Public Utility Regulation: This course was taught for three semesters, primarily to law students. Guest speakers included Public Utility Commissioners, attorneys from the Colorado Office of the Attorney General, engineers and economists from federal, state, and local agencies. The author of the textbook also lectured through live video stream. This was a new prep course that integrated my niche area of economics, law, and policy. *Denver University Sturm School of Law*

LAWS 4452 Environmental and Natural Resource Economics: This course was taught seven semesters to law students, graduate students, and to practicing attorneys returning for a master's degree in environmental and natural resource law. The course covered law and economics, policy, sustainable development, and economic modeling, with a focus on public lands. *Denver University Sturm School of Law*

SOCR/CIVE 481 Waste and Water Recycling: This experimental, interdisciplinary course was created and co-taught by three faculty members from different disciplines (economics, engineering, and soil science). After its initial offering, the course was taught through Civil and Environmental Engineering, and received certification by the University for sustainability sciences. *Colorado State University*

AGRI/ENGR 638 Bioenergy Assessment: This interdisciplinary course is required for MAS-IGERT bioenergy Ph.D. students and the Master of Science oilseed fellowship students. I co-taught the course with four other faculty members, without course remission. *Colorado State University*

AGRI 638 Ecosystem Services on Agricultural Lands: I designed and taught this experimental course as part of Master of Agriculture degree at Colorado State University. I also developed an on-line version of the course. The experimental courses reviewed bio-physical components of agricultural ecosystem services and examined the co-production of provisioning ecosystem services (e.g.

commodities, forest products) and supporting/cultural/regulating ecosystem services (e.g. soil formation, open space). The course also addressed practical aspects, like public and private partnerships and ecosystem service funding opportunities.

Development of New University Courses, Majors, and Minors

I authored and co-designed the Minor in Analytics and Decision-Making (MAD) at the University of California-Merced, which was approved and implemented in 2018 through the Management of Complex Systems Department in the School of Engineering. This is the first minor degree program offered in the School of Engineering, allowing students in several majors to graduate with both a major and a minor within four years.

In the newly established Management of Complex Systems Department in the School of Engineering at UC-Merced, I developed or co-developed the following new courses:

- MIST 253 Coupled Natural Human Systems (offered as ES 292)
- MIST 210 Integrative Project and Case Studies
- MIST 208 (co-developed with Professor Jeff Jenkins)
- MIST 199 Upper Division Individual Independent Study
- MIST 198 Upper Division Group Independent Study
- MIST 195 Upper Division Research Study
- MIST 190 Special Topics in Management of Complex Systems
- MIST 164/264 Energy Policy (cross-listed and concurrently offered with ENVE 164 and ES 264)

I served on the General Education Sub-Committee of the University of California-Merced Undergraduate Council that was responsible for implementing the General Education degree program that was approved by the faculty in 2017 and that went into effect for students in Fall 2018. In AY 2017-2018 we created descriptions and requisites for freshmen seminars, lower division, upper division, and culminating experience General Education classes (and a few other designations). We reviewed several hundred course request forms in great detail and made recommendations to the Merced Division's Undergraduate Council Curriculum (UGC) committee for final course approval. I also served as Vice-Chair of the UGC AY 2017-2018 and AY 2018-2019; in doing so, I helped to provide continuity between the body that established the General Education program details and reviewed the course proposals, with the group that provided another layer of review and course/program approval.

ESS/BIO 113 Sustainability in the Anthropocene was a new course that was primarily designed by Professor Mike Dawson as a blended, online-classroom course available for General Education program credits at the University of California-Merced. Four other faculty members, including myself, contributed to content development and material. My video models and supportive course materials cover land conservation and market-based policy tools.

MIST 208 I co-designed Law, Policy, and Risk Management with Professor Jeffrey Jenkins for the Master of Management degree offered in the Ernest and Julio Gallo Management Program in the School of Engineering at University of California-Merced.

MIST 164 is cross-listed with ENVE 164, and the courses being offered through the Management and Civil and Environmental Engineering programs at University of California-Merced. I modified both courses to focus more on enterprise budgeting and international development. I also expanded the offering to include graduate sections. In other words, MIST 264 is a concurrent graduate course that is cross listed with ES 264. Altogether, four sections of Energy Policy are offered concurrently and cross-listed: MIST 164/ENVE 164/MIST 264/ES 264.

I co-developed a Master of Science in Agriculture program with my colleagues in the Boreal Ecosystem Agricultural Sciences (BEAS) program at Memorial University, which was approved and implemented in

2015. I developed two new courses for the program, BEAS 6003 Quantitative Methods for Social Sciences and BEAS 6010 Agricultural and Forestry Economics for the new graduate degree.

I developed “Bio-energy” as an Area of Concentration in the Soil and Crop Sciences major at Colorado State University in 2010.

I co-developed two new courses at Colorado State University:

AGRI/ENGR 681 Bioenergy Assessment

- Ph.D.-level trans-disciplinary course in first-and-second generation biofuels

CIVE/SOCR 481 Waste and Water Recycling

- Undergraduate multi-disciplinary course in economics, engineering, and agronomy

I developed three new courses at the Denver University Sturm School of Law:

LAWS 4452 Environmental and Natural Resource Economics

LAWS 4701 Energy Economics (offered as an experimental on-line course during fall 2010)

LAWS 4500 Public Utility Regulation (re-designed after the fall 2010 experimental course)

Center Development

Internet of Things for Precision Agriculture (IoT4Ag) Engineering Research Center: <https://iot4ag.us>

Center Goal: Our Mission is to create and translate to practice Internet of Thing (IoT) technologies for precision agriculture and to train and educate a diverse workforce that will address the societal grand challenge of food, energy, and water security for decades to come.

Co-PI, UCM Site Director, Diversity and Culture of Inclusion (DCI) Co-lead

Ph.D. student Nicolas Goncalves receives Center-wide DCI Excellence Award

Center-related activities/presentations and agency presentations:

June 2022 Moderator, Panel Member for movie screening of *Last Harvest*

October 2021 Annual Site Visit Presentation; Student Poster Presentation

February 2021 Bi-weekly education seminar presentation

June 2021 Student Poster Presentation (co-presented)

Tri-annual-check-ins (Oct., Jan., 2020; June, Aug., Nov., 2021; April, June 2022)

Creation and Delivery of Professional Development Activities Related to Teaching

Colorado State University Center Director for Colorado Council on Economic Education

Responsibilities: Developed curriculum and administered continuing education programs for teachers seeking to fulfill annual licensing continuing education requirements. Evaluated writing requirements and served as professor of record for these programs. Served as contact for the state/national network, answered questions as needed, and served in consulting role for the Colorado Council on Economic Education: <http://www.ccee.net>

As follows is a list of continuing education programs that I presented in Denver for Colorado teacher licensing requirements through the Colorado Council for Economic Education (CCEE):

September 13, 2014. “Economics of Fracking.”

November 12, 2011. “Energy Policies toward a Better World—the U.S. and E.U.”

December 4, 2010. “Carbon Economy.”

April 20, 2010. “Economics of Alternative Energy in Colorado”, with Denver Science Museum.

July 7, 2009. “Energy Economics”.

Continuing Education Presentations for other professors and professionals

California Higher Education Sustainability Conference.

Climate Justice Symposium for Transforming Education (CHESC) annual conference.

Faculty Panelist: Establishing Sustainability and Climate Justice into the Core Requirements and Expectations for All Students. **April 28, 2021.** <https://chesc.org/cjste/> ; <https://vimeo.com/544034744>

National Alliance for Broader Impacts (NABI) faculty workshop at UC-Merced.

Faculty panelist and discussant about serving as a program officer and panel reviewer, the importance of addressing impact of science in a proposal, and how broader impacts are regarded in the peer review process. **April 4, 2019.**

University of California Faculty Leadership and Professional Development Training Program produced and offered by the University of California, Davis:

University of California, 2018 (Interview and article, December 7, 2017).

Faculty Leadership Development Toolkit:

<https://ucfacultyleadership.ucdavis.edu/tags/faculty-profile/catherine-keske>

Following the 2016 U.S. election, I co-organized and participated in a series of Canadian workshops to prepare Canadian students and faculty about what election results could mean for the Canadian, U.S., and international economies and communities.

December 1, 2016. “Coffee Conversations: After the U.S. election, what happens now?”

Continuing education attorney legal education (CLU) credits:

February 12, 2010. “Sustainable Development, Corporate Governance, and International Law”. American Branch of the International Law Association. Ved Nanda Center for International Law & International Legal Studies Program. Denver Journal of International Law & Policy. University of Denver Sturm College of Law.

In my private sector employment with Great Nordic Industries (1996-2001), I created the curriculum and delivered approximately 160 training programs for continuing education credits for medical doctors (primarily otolaryngologists), audiologists, hearing aid specialists and hearing health care professional throughout the U.S. and Canada. The continuing education programs provided credit towards state licensing, certification, and registration requirements. I developed a database and records maintenance system and supervised professional support staff.

Invited International Teaching outside of U.S. and Canada

March 3 and March 31, 2014. Two-part publishing workshop sponsored by Instituto Tecnológico de Costa Rica, Centro de Investigación en Administración, Economía y Gestión Tecnológica, Comisión de Internacionalización, Escuela Administración de Empresas. Provided resources, instruction, and mentoring to faculty learning to publish in academic, peer-reviewed journals.

February 20, 2014. “Does a Healthy Economy Lead to a Healthy Environment?” Distinguished lecture sponsored by Instituto Tecnológico de Costa Rica, Centro de Investigación en Administración, Economía y Gestión Tecnológica, Comisión de Internacionalización, Escuela Administración de Empresas.

June 13, 2010. China Agricultural University sponsored guest lecture on environmental economics and resource management in rural communities.

Clubs:

UC-Merced College Republicans (Fall 2018)
University of Northern Colorado Snowboarding Club Faculty Adviser (2006/07)
UNC Outstanding Club President Nate Giska (Spring 2007)

UNIVERSITY FACULTY AFFILIATIONS AND COMMITTEES***Faculty Affiliate in Academic Programs and Research Institutes:*****University of California**

University of California-Berkeley Canadian Studies Program, External Affiliate Faculty

University of California-Merced Management, Innovation, Sustainability and Technology Grad Group
Core Member (2017-present) <https://mist.ucmerced.edu/faculty-staff>

University of California-Merced Environmental Systems Graduate Group Core Member (2018-present)
<https://es.ucmerced.edu/faculty>

Center of Information Technology Research in the Interest of Society (CITRIS) and the Banatao Institute,
<http://citriss.ucmerced.edu> (2018-present)

Sierra Nevada Research Institute <https://snri.ucmerced.edu/faculty> (2017-present)

Health Research Sciences Initiative (HRSI) (2019-present)

Memorial University

Memorial University Boreal Ecosystem Research Initiative (2014-2017)
Memorial University Environmental Policy Institute (2014-2017)

University of Colorado-Boulder

Institute for Arctic and Alpine Research (INSTAAR), (2012-2018)
National Science Foundation (NSF) Niwot Ridge LTER Site (2010-2018)

Colorado State University

Western Center for Integrated Resource Management (2010-2012)
Center for Agriculture and Energy (2011-2012)
National Science Foundation (NSF) Short Grass Steppe LTER Site (2006-2010)
Institute for Livestock and the Environment

- Associate Director (2008-2012)
- Strategic Planning Core Team Member (2007-2012)

University Service:**University of California**

University of California-San Diego Warren College Program Reviewer, External Member (April-May 2020)

University of California Senate

Board of Admissions and Relations with Schools (BOARS), Merced Division representative, (2018-2019)

University of California-Merced Division Shared Governance

Undergraduate Council (UGC) for undergraduate education (2018-2019; 2017-2018)

UGC Vice-Chair (2018-2019; 2017-2018)

General Education Sub-Committee of UGC (2017-2018)

General Education Executive Committee (2019; 2019-20; 2020-21)

Admissions and Financial Aid Subcommittee (AFAS) Chair (2018-2019)

Program Review Oversight Committee (PROC) (2017-2018)

Academic Planning Workgroup (APWG) 2019

Memorial University

Memorial University Economic Benefits Committee (2016-2017)

Memorial University Human Subjects Research Ethics Board (2015-2017)

Memorial University Sub-Committee of the Senate Committee on Undergraduate Studies (2016-2017)

Memorial University Teacher and Faculty Unions

Memorial University Newfoundland Faculty Association (MUNFA) Legal Support Fund Investment Advisory Committee (2016-2017)

Memorial University Newfoundland Faculty Association (MUNFA) Economics Benefits Committee (2016-2017)

Colorado State University

Colorado State University Disciplinary Panel (2011-2012)

Service to School or College:

Administration/Leadership

Vice Chair, UC-Merced Academic Senate (appointed July 1, 2022-June 30, 2023)

Chair of School of Engineering Senate Faculty, 2-year elected position

(Fall 2021; AY 2020-21; AY 2018-19; Spring 2018)

University of California-Merced School of Engineering Executive Committee

(Fall 2021; AY 2020-21; AY 2018-19; AY 2017-18)

Memorial University Faculty of Science and the Environment Undergraduate Education Committee (2016-17)

UC-Merced Internal Grant Reviewer

Limited Submission Review Committee (2022-2023; 2021-2022)

NSF-NRT (2021)

UC-Merced Grad Division Grad Slam Reviewer (2020)

NSF Major Research Instrumentation (2019)

Service to Department or Academic Program:

University of California-Merced

Environmental Systems Graduate Group: Anti-racism in curriculum task force (2020-21)

Management of Complex Systems (MCS) Department
Undergraduate Programs Chair (2018-2019; 2017-2018)
Search Committee for MCS Faculty (2018-2019)

Memorial University

Program Level Ethics Board (2015-2016)
Search Committee Chair for Environmental Studies Faculty (2015)

Colorado State University Department

Institute for Livestock and the Environment Research Coordinator Search Committee (2009)
Design of Undergraduate Biofuels Concentration in Department of Soil and Crop Sciences (2010)
Undergraduate Academic Advisor to joint major Soil and Crops Sciences and Ag Business students,
Department of Soil and Crop Sciences (2009-2012)

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Professional reviews for the following journals:

2006-2017: Archives of Agronomy and Soil Science, American Journal of Agricultural Economics, Agricultural Ecological Economics, Ecological Economics, Ecosystem Services, Economics Society, Energy and Resources Law, Environments, Food Security, Human Dimensions of Wildlife, Journal of Environmental Economics and Policy, Journal of Environmental Management, Journal of Hospitality Marketing & Management, Mountain Research and Development, Journal of Landscape and Urban Planning, Journal of Outdoor Recreation and Tourism, Journal of Rural Studies, Land, Landscape and Urban Design, Land Use Planning, Land Use Policy, Rural Sociology, Tourism Management, Tourism Planning and Development, Utilities Policy (“Outstanding Reviewer” status awarded in 2015)

2017-present: Arctic, Canadian Food Studies(CFS) /*La Revue canadienne des études sur l'alimentation* (2019), Economic Development Quarterly (2020), Energy, Sustainability, and Society (2021), Forests (2021), International Journal of Sustainability in Higher Education (2018), Journal of Agriculture and Food Research (2020), Journal of Cleaner Production (2020, 2021), Journal of Dairy Science (2020, 2021), Journal of Environmental Management (2017, 2018, 2021, 2022), Journal of Natural Resources Policy Research (2019), Journal of Outdoor Recreation and Tourism (2022), Land Economics (2019), People and Nature (2021), Society and Natural Resources (2020, 2021), Sustainability (2018, 2019, 2020), Utilities Policy (2017, 2018)

Journal Special Issue Editor: Sage Open Scholar One (2019), Sustainability (2021)

Professional reviews for the following NGOs: Colorado Fourteeners Initiative, Colorado Mountain Club, Colorado State Trails Grant, Mosquito Range Heritage Initiative

Professional and peer reviews for the following agencies: University of Nevada Cooperative Extension (2019), National Science Foundation (2013, 2014), USDA AFRI-NIFA (2014), U.S. Department of Interior (2004, 2005, 2006)

Grant panels: Canada’s NFRF- FNFR Tri-Council Transformation New Frontiers in Research Fund (2021); European Commission-Law (2020); Republic of Georgia (2018); Republic of Kazakhstan (2017); Research Foundation - Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO; 2015, 2016); National Science Foundation (2014); Louisiana Board of Governors (2014); USDA AFRI-NIFA Weedy and Invasive Species Grant Panel (2009)

Editorial Boards: Utilities Policy (2010-present), Sustainability (2019-2020), Frontiers in Environmental Economics- Agricultural Economics Section (2022- present)

Membership to special advisory boards, work groups and review panels:

National Science Foundation (NSF) Convergence Accelerator: Digital and Precision Agriculture Workshop (May 10-21, 2021)

Review College for Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO (2021-2024)

Blue Forest Conservation Scientific Advisory Committee, San Francisco (2020-present)

Service to profession and memberships in professional societies:

Agricultural and Applied Economics Association

Canadian Association of Food Studies

Western Agricultural Economics Association Member

Western Agricultural Economics Association Board of Directors (Elected to 3-year term, 2010-2013)

- Refereed Paper Committee Chair for 2012 meetings in Park City, Utah (2011-2012)
- Awards Committee Co-Chair for 2011 annual meetings in Banff, Canada (2010-2011)
- Awards Committee Co-Chair for 2013 annual meetings in Monterey, California (2012-2013)

Professional and association advisory groups:

Colorado Mountain Club Conservation Advisory Council (2009-2014)

Province of Newfoundland and Labrador Agricultural Research Advisory Committee "ARAC" (2014-2017)

Board of Directors:

Teens on Farms, Board of Directors, Delta, Colorado (2009-2010)

Mountain Area Land Trust, Board of Directors, Evergreen, Colorado (2005-2008)

- Held several leadership roles, including Board Secretary and Inaugural Stewardship Chair