

**THOMAS H. DELUCA**  
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#### **ADMINISTRATIVE RESPONSIBILITIES**

- Direct a large program on forestry and natural resource sciences
- Provide vision and direction for a diverse faculty and staff in natural resource sciences
- Oversee undergraduate curricula and graduate curricula with ~1,300 students
- Oversee eleven outlying research forests
- Provide leadership on natural resource and environmental issues
- Serve the University through leadership on committees, planning, and outreach

#### **RESEARCH INTERESTS**

- Carbon and nitrogen dynamics of natural and disturbed ecosystems
- Forest ecology and ecosystem ecology
- Influence of restoration activities on ecosystem function
- Fire as a driver of ecosystem processes in forest ecosystems
- Nitrogen fixation in terrestrial ecosystems
- Soil resource sustainability as influenced by land management

#### **EDUCATION**

**Ph.D. Iowa State University**, May 1993. Soil Science (Soil Microbiology and Biochemistry).  
Dissertation: Paired prairie and cultivated soils: Soluble organics and nitrogen dynamics.

**M.S. Montana State University**, March 1987. Soils. Thesis: Band applications of elemental sulfur inoculated with *Thiobacillus thioparus* to increase nutrient availability.

**B.S. University of Wisconsin-Madison**, December 1984. Soil Science, Natural Science Option.

## PROFESSIONAL HISTORY

**2020 – Present Dean and Professor, College of Forestry, Oregon State University, Corvallis, OR**

**2017-2020. Dean and Professor, W.A. Franke College of Forestry and Conservation, Director of the Montana Forest and Conservation Experiment Station, University of Montana, Missoula, Montana**

**2012–2017. Director and Professor, School of Environmental and Forest Sciences, University of Washington, Seattle, Washington**

**2009 – 2012. Professor and NERC-University Joint Chair in Environmental Sciences, Bangor University, Bangor, Gwynedd, LL57 2UW, United Kingdom**

**2009 – 2018. Senior Research Scientist. Institute for Subarctic Alpine Research, Silver Museet, Arjeplog, Sweden.**

**2006 – 2009. Senior Scientist/Forest Ecologist, Ecological and Economic Research Department, The Wilderness Society, Bozeman, MT**

**2006 – 2013. Adjunct Professor of Forest Soils, Department of Forest Management, College of Forestry, The University of Montana, Missoula, MT**

**2000- 2008. Guest Professor of Forest Ecology, Department of Forest Vegetation Ecology (now Forest Ecology and Management), Swedish University of Agricultural Sciences (SLU), Umeå Sweden.**

**2003- 2006. Professor of Forest Soils, Department of Ecosystem and Conservation Sciences, College of Forestry and Conservation, University of Montana, Missoula, MT.**

**1998 - 2003. Associate Professor of Forest Soils, School of Forestry, University of Montana, Missoula, MT (awarded tenure in 1999)**

**1994 - 1998. Assistant Professor of Forest Soils, School of Forestry, University of Montana.**

**1993 - 1994. Assistant Professor of Agroecology, Sustainable Systems, Slippery Rock University, Slippery Rock, PA.**

**1990 - 1993. Research Associate, Leopold Center for Sustainable Agriculture, Iowa State University, Ames, IA.**

**1988-1990. Environmental Specialist III, Montana Department of Agriculture** Environmental Management Division, Helena, MT.

**1987-1988. Research Assistant, Plant Pathology, North Carolina State University, Raleigh, NC.**

## PUBLICATIONS

### Publications in Refereed Journals (H Index 68, Google Scholar)

- Gundale, M.J., E. P. Axelsson, V. Buness, T. Callebaut, T.H. **DeLuca**, S. Hupperts, T.S. Ibáñez, D.B. Metcalfe, M-C. Nilsson, M. Peichl, C.M. Spitzer, Z.R. Stangl, J. Strengbom, M. Sundqvist, D.A. Wardle, B. Lindahl. 2024. The biological controls of soil carbon accumulation following wildfire and harvest in boreal forests: a review. *Global Change Biology*: In Press.
- DeLuca**, T.H. 2024. On being a forest soil scientist – Reflections at the 14th North American Forest Soils Conference. *Soil Science Society of America Journal* 88:203–206.  
<https://doi.org/10.1002/saj2.20626>
- DeLuca**, T.H. and J.A. Hatten. 2024. Conservation from the bottom up: A forestry case study. *Anthropocene* 45:100423. <https://doi.org/10.1016/j.ancene.2023.100423>
- Xiong, J., G. Wang, A. Richter, T.H. **DeLuca**, W. Zhang, H. Sun, Z. Hu, X. Sun, S. Sun. 2023. Soil organic carbon accumulation and microbial carbon use efficiency in subalpine coniferous forest as influenced by forest floor vegetative communities. *Geoderma* 438: 116648. <https://doi.org/10.1016/j.geoderma.2023.116648>
- Bidwell, A.L. P.C. Tobin, T.H. **DeLuca**. 2023. Nitrogen-fixation in *Acer macrophyllum* canopy bryophytes in the Pacific Northwest, USA. *Plant Soil* 488:  
<https://doi.org/10.1007/s11104-023-06082-8>
- Zhang, J., T.H. **DeLuca**, Z. Chenpeng, A. Li, G. Wang, S. Sun. 2023. Comparison of the seasonal and successional variation of asymbiotic and symbiotic nitrogen fixation along a glacial retreat chronosequence. *Science of the Total Environment* 896:165163.  
<https://doi.org/10.1016/j.scitotenv.2023.165163>
- Li, A., G. Wang, T.H. **DeLuca**, S. Sun, W. Zhang, P. Chen, A. Wu, X. Sun, H. Sun, Z. Hu. 2023. Soil nitrogen transformations differ under sedge and bryophyte communities in a subalpine forest on the eastern Tibetan Plateau. *Geoderma* 430:116309  
<https://doi.org/10.1016/j.geoderma.2022.116309>.
- Arróniz-Crespo, M. J. Bougoure, D.V. Murphy, N.A. Cutler, V. Souza-Egipsy, D.L. Chaput, D.L. Jones, N. Ostle, S.C. Wade, P.L. Clode, and T.H. **DeLuca**. 2022. Revealing the transfer pathways of cyanobacterial-fixed N into the boreal forest through the feather-moss microbiome. *Frontiers in Plant Science* 13: <https://doi.org/10.3389/fpls.2022.1036258>.
- Gao, S. and T.H. **DeLuca**. 2022. Rangeland application of biochar and rotational grazing interact to influence soil and plant nutrient dynamics. *Geoderma* 408:115572  
<https://doi.org/10.1016/j.geoderma.2021.115572>

- DeLuca**, T.H. O. Zackrisson, M-C. Nilsson, S. Sun, M. Arróniz-Crespo. 2022. Long-term fate of nitrogen fixation in *Pleurozium schreberi* brid (mit.) moss carpets in boreal forests. *Applied Soil Ecology* 169: 104215 <https://doi.org/10.1016/j.apsoil.2021.104215>
- Tang, R., T.H. **DeLuca**, Y. Cai, S. Sun, J. Luo. 2021. Long-term decomposition dynamics of broadleaf litters across a climatic gradient on the Qinghai-Tibetan Plateau, China. *Plant Soil* 465:403–414. <https://link.springer.com/article/10.1007%2Fs11104-021-05018-4>
- Pendergraph, D.P. J. Ranieri, L. Ermatinger, A. Baumann, A.L. Metcalf, T.H. **DeLuca**, M.J. Church. 2021. Differentiating sources of fecal contamination to Wilderness waters using droplet digital PCR and fecal indicator bacteria methods. *Wilderness and Environmental Medicine* 32:332-339. <https://doi.org/10.1016/j.wem.2021.04.007>
- Zhang, J., J. Luo, T.H. **DeLuca**, S. Sun, G. Wang, X. Sun, Z. Hu, C. Song, W. Zhang. 2021. Biogeochemical stoichiometry of soil and plant functional groups along a primary successional gradient following glacial retreat on the eastern Tibetan Plateau. *Global Ecology and Conservation* 26:01491 <https://doi.org/10.1016/j.gecco.2021.e01491>.
- Pulido-Chavez, F. E.C. Alvarado T.H. **DeLuca**, R.L. Edmonds and S.I. Glassman. 2021. High-severity wildfire reduces richness and alters composition of ectomycorrhizal fungi in low-severity adapted ponderosa pine forests. *Forest Ecology and Management* 485: 118923. <https://doi.org/10.1016/j.foreco.2021.118923>.
- Gao. S and T.H. **DeLuca**. 2021. Influence of fire retardant and pyrogenic carbon on microscale changes in soil nitrogen and phosphorus. *Biogeochemistry* <https://doi.org/10.1007/s10533-020-00746-8>
- DeLuca** T.H., M.J. Gundale, R.J. Brimmer, S. Gao. 2020. Pyrogenic carbon generation from fire and forest restoration treatments. *Frontiers in Forests and Global Change* 3: DOI=10.3389/ffgc.2020.00024
- Li, A., **DeLuca**, T.H., Sun, S., Zhang, J., Wang, G., 2020. Bryophytes impact the fluxes of soil non-carbon dioxide greenhouse gases in a subalpine coniferous forest. *Biol. Fert. Soil*. 56: 1151–1163. <https://doi.org/10.1007/s00374-020-01483-8>
- Callahan, S.T. A. Bidwell, C. Lin, T.H. **DeLuca**, and P.C. Tobin. 2020. Effects of copper exposure and increased temperatures on Collembola in western Washington, USA. *City and Environment Interactions* 4:100026.
- Gao. S. and T.H. **DeLuca**. 2020. Biochar alters nitrogen and phosphorus dynamics in a western rangeland ecosystem. *Soil Biology and Biochemistry* 148: 107868.
- Hill, P.W. R. Broughton, J. Bougoure, W. Havelange, K.K. Newsham, H. Grant, D. Murphy, P. Clode, C. Brown, S. Ramayah, K.A. Marsden, R. Quilliam, P. Roberts, D.J. Read, T.H. **DeLuca**, R.D. Bardgett, D.W. Hopkins, D.L. Jones. 2019. Fungal root endophytes facilitate the acquisition of organic nitrogen from ancient soil organic matter by Antarctic angiosperms. *Ecology Letters* 39:2111-2119.
- Bidwell, A.L., S.T. Callahan, P.C. Tobin, B.K. Nelson, T.H. **DeLuca**. 2019. Quantifying elemental composition of mosses in western Washington USA. *Science of the Total Environment* 693:133404.
- Gao, S. and T.H. **DeLuca**. 2019. Use of microdialysis to assess short-term soil soluble N dynamics with biochar additions. *Soil Biology & Biochemistry* 136:107512.
- Sun, S. Y. Wu, J. Zhang, G. Wang, T.H. **DeLuca**, W. Zhu, A. Li, M. Duan and L. He. 2019. Soil warming and nitrogen deposition alter soil respiration, microbial community structure

- and organic carbon composition in a coniferous forest on eastern Tibetan Plateau. **Geoderma** 353:283-292
- Mason, K.E. S. Oakley, L. Street, M. Arróniz-Crespo, D.L. Jones, T.H. **DeLuca**, N. Ostle. 2019. Boreal forest floor greenhouse gas emissions across a *Pleurozium schreberi*-dominated, wildfire-disturbed chronosequence. **Ecosystems** 22: 1381–1392.
- Duan, M., A. Li, Y. Wu, Z. Zhao, C. Peng. T.H. **DeLuca**, S. Sun. 2019. Differences of soil CO<sub>2</sub> flux in two contrasting subalpine ecosystems on the eastern edge of the Qinghai-Tibetan Plateau: A four-year study. *Atmospheric Environment* 198:166-174.
- Gao, S., T.H. **DeLuca**, and C.C. Cleveland. 2019. Biochar additions alter phosphorus and nitrogen availability in agricultural ecosystems: a meta-analysis. *Science of the Total Environment* 654:463-472.
- Hörnberg, G., T. Josefsson, T.H. **DeLuca**, L. Liedgren, L. Östlund, O. Zackrisson, and I. Bergman, 2018. Anthropogenic use of fire led to degraded Scots pine-lichen forest in northern Sweden. *Anthropocene* 24:14-29.
- Gao, S. and T.H. **DeLuca**. 2018. Wood biochar impacts soil phosphorus dynamics and microbial communities in organically-managed croplands. *Soil Biology and Biochemistry Soil Biology and Biochemistry* 126:144–150.
- Pingree, M.R.A. and T.H. **DeLuca**. 2018. The influence of fire history on soil nutrients and vegetation cover in mixed severity fire regime forests of the eastern Olympic Peninsula, Washington, USA. *Forest Ecology & Management* 422: 95–107.
- Scott; D., R.L. Bradley, J-P. Bellenger, D. Houle, M. Gundale, K. Rousk, and T.H. **DeLuca**. 2018. Anthropogenic deposition of heavy metals and phosphorus may reduce biological N<sub>2</sub> fixation in boreal forest mosses. *Science of the Total Environment* 630:303-310.
- Gao, S., K. Hoffman-Krull, and T.H. **DeLuca**. 2017. Soil biochemical properties and crop productivity following application of locally produced biochar at organic farms on Waldron Island, WA. *Biogeochemistry* 136:31–46.
- Pingree, M.R.A. and T.H. **DeLuca**. 2017. Function of wildfire-deposited pyrogenic carbon in terrestrial ecosystems (Mini-Review). *Frontiers in Environmental Science* 30: doi.org/10.3389/fenvs.2017.00053.
- Pingree, M.R.A., K. Makoto, and T.H. **DeLuca**. 2017. Interactive effects of charcoal and earthworm activity increase bioavailable phosphorus in sub-boreal forest soils. *Biology and Fertility of Soils* 53:873–884.
- Eisenhauer, N., P.M. Antunes, A.E. Bennett, K. Birkhofer, A. Bissett, M.A. Bowker, T. Caruso, B. Chen, D.C. Coleman, W. de Boer, P. de Ruiter, T. H. **DeLuca**, F. Frati, B.S. Griffiths, M. M. Hart, S. Hättenschwiler, J. Haimi, M. Heethoff, N. Kaneko, L.C. Kelly, H.P. Leinaas, Z. Lindo, C. Macdonald, M.C. Rillig, L. Ruess, S. Scheu, O. Schmidt, T.R. Seastedt, N.M. van Straalen, A.V. Tiunov, M. Zimmer, J.R. Powell. 2017. Priorities for research in soil ecology. **Pedobiologia** 63:1-7.
- Sun, S-Q, T. Liu, Y-H. Wu, G-X. Wang, B. Zhu, T.H. **DeLuca**, Y-Q. Wang, J. Luo. 2017. Ground bryophytes regulate net soil carbon efflux: evidence from two subalpine ecosystems on the east edge of the Tibet Plateau. **Plant & Soil** 417:363–375.
- Cutler, N., M. Arróniz-Crespo, L.E. Street, D.L. Jones, D.L. Chaput, T.H. **DeLuca**. 2017. Long-term recovery of microbial communities in the boreal bryosphere following fire disturbance. **Microbial Ecology** 73:75–90.

- Gao, S. and T.H. **DeLuca**. 2016. Influence of biochar on soil nutrient transformations, nutrient leaching, and crop yield. **Advances in Plants & Agriculture Research** 4(5) 00150. DOI: 10.15406/apar.2016.04.00150.
- Gao, S., K. Hoffman-Krull, A.L. Bidwell, and T.H. **DeLuca**. 2016. Locally produced wood biochar increases nutrient retention and availability in agricultural soils of the San Juan Islands, USA. **Agriculture, Ecosystems and the Environment** 233: 43–54.
- Pingree, M.R.A., E.E. DeLuca, D.T. Schwartz, T.H. **DeLuca**. 2016. Adsorption capacity of wildfire-produced charcoal from Pacific Northwest forests. **Geoderma** 283:68–77.
- Doty, S.L., A.W. Sher, N.D. Fleck, M. Khorasani, R.E. Bumgarner, Z. Khan, A.W.K. Ko, S-H. Kim and T.H. **DeLuca**. 2016. Variable nitrogen fixation in wild *Populus*. **PLoS One**: DOI:10.1371/journal.pone.0155979.
- Abbott, B.W. et al. (**DeLuca** 38<sup>th</sup> author). 2016. Biomass offsets little or none of permafrost carbon release from soils, streams, and wildfire: an expert assessment. **Environmental Research Letters** 11:034014
- DeLuca**, T.H., H.C. Glanville, M. Harris, B.A. Emmett, M.R.A. Pingree, L. L. de Sosa, C. Morenà, D. L. Jones. 2015. A biologically-based approach to evaluating soil phosphorus availability across complex landscapes. **Soil Biology and Biochemistry** 88:110-119.
- Östlund, L., G. Hörnberg, T.H. **DeLuca**, L. Liedgren, P. Wikström, O. Zackrisson, and T. Josefsson, 2015. Intensive land use in the Swedish mountains between AD 800 and 1200 led to deforestation and ecosystem transformation with long-lasting effects. **Ambio** 44:508–520.
- Rousk, K., D.L. Jones, T.H. **DeLuca**. 2014 Moss-nitrogen input to boreal forest soils: tracking <sup>15</sup>N in a field experiment. **Soil Biology and Biochemistry** 72:100-104.
- Lucchini, P., R.S. Quilliam, T.H. **DeLuca**, T. Vamerali, and D.L. Jones. 2014. Increased bioavailability of metals in two contrasting agricultural soils treated with waste wood-derived biochar and ash. **Environmental Science and Pollution Research** 72:100-104..
- Lucchini P, Quilliam RS, **DeLuca** TH, Vamerali T, Jones DL. 2014. Does biochar application alter heavy metal dynamics in agricultural soil? **Agriculture, Ecosystems & Environment** 184:149-157.
- Rousk K., D.L. Jones, and T.H. **DeLuca**. 2014. Exposure to nitrogen does not eliminate N<sub>2</sub> fixation in the feather moss *Pleurozium schreberi* (Brid.) Mitt. **Plant and Soil** 374:513-521.
- Rousk K., D.L. Jones and T.H. **DeLuca**. 2014. The resilience of nitrogen fixation in feather moss (*Pleurozium schreberi*)-cyanobacteria associations after a drying and rewetting cycle. **Plant and Soil**, 377:159-167.
- Rout, M.E., T.H. Chrzanowski, T.K., Westlie, T.H. **DeLuca**, R.M. Callaway, W.E. Holben. 2013. Bacterial endophytes enhance competition by invasive plants. **American Journal of Botany** 100:1726-37.
- DeLuca**, T.H. O. Zackrisson, I. Bergman, B. Díez, and B. Bergman. 2013. Diazotrophy in alluvial meadows of Subarctic river systems. **PLoS One** 8:e77342.
- DeLuca**, T.H. O. Zackrisson, I. Bergman, and G. Hörnberg. 2013. Historical land use and resource depletion in spruce-*Cladina* forests of Northern Sweden. **Anthropocene** 1:14-22.
- Rousk, K., D.L. Jones, T.H. **DeLuca**. 2013. Moss-cyanobacteria associations as biogenic sources of nitrogen in boreal forest ecosystems. **Frontiers in Terrestrial Microbiology** 4:150.

- Jones, D.L., P. Cross, P.J.A. Withers, T.H. **DeLuca**, D.A. Robinson, R.S. Quilliam, I.M. Harris, D.R. Chadwick and G. Edwards-Jones. 2013. Nutrient stripping: the global disparity between food security and soil nutrient stocks. **Journal of Applied Ecology** 50:851-862.
- Rousk, K., D.L. Jones, O. Zackrisson, J. Rousk, and T.H. **DeLuca**. 2013. Feather moss nitrogen acquisition across natural fertility gradients in boreal forests. **Soil Biology & Biochemistry** 61:86-95
- Rousk, K., T.H. **DeLuca**, J. Rousk. 2013. The cyanobacterial role in the resistance of feather mosses to decomposition - toward a new hypothesis. **PLoS One** 8(4): e62058. doi:10.1371/journal.pone.0062058 (Number of citations: 2)
- DeLuca**, T.H., S.A. Zewdie, O. Zackrisson, J. R. Healey, D.L. Jones. 2013. Bracken fern promotes an open nitrogen cycle in heathland soils. **Plant and Soil** 367:521-534.
- Quilliam, R.S., D.L. Jones, T.H. **DeLuca**. 2013. Biochar application reduces nodulation but increases nitrogenase activity in clover. **Plant and Soil** 366:83-92.
- Quilliam, R.S. T.H. **DeLuca**, S. Rangelcroft, B Emmett D.L. Jones. 2013. Is biochar a source or sink for polycyclic aromatic hydrocarbon (PAH) compounds in agricultural soils? **Global Change Biology-Bioenergy** 5:96-103.
- Quilliam, R.S. K.A. Marsden, C. Gertler, J. Rousk, T.H. **DeLuca**, Davey L. Jones. 2012. Nutrient dynamics, microbial growth and weed emergence in biochar amended soil are influenced by time since application and reapplication rate. **Agriculture, Ecosystems and the Environment** 158:192- 199.
- Farrell, M. P. Hill, J. Farrar, T.H. **DeLuca**, P. Roberts, K. Kieland, R. Dahlgren, D. Murphy, P. Hobbs, R. Bardgett, D.L. Jones. 2012. Oligopeptides represent a preferred source of organic N uptake: A global phenomenon? **Ecosystems** 16:133-145.
- Das Gupta, S. and T.H. **DeLuca**. 2012. Short-term changes in belowground C, N stocks in recently clear felled Sitka spruce plantations on podzolic soils of North Wales. **Forest Ecology and Management** 281:48-58.
- Ackermann, K., O. Zackrisson, J. Rousk, D.L. Jones, T.H. **DeLuca**. 2012. N<sub>2</sub> fixation in feather mosses is a sensitive indicator of N deposition in boreal forests. **Ecosystems** 15:986-998.
- DeLuca**, T.H. and C. Boisvenue. 2012. Boreal forest soil carbon: distribution, function and modelling. **Forestry** 85:161-184. doi:10.1093/forestry/cps003.
- Quilliam, R.S., K.A. Marsden, C.Gertler, J.Rousk, T.H. **DeLuca**, D.L. Jones. 2012. Nutrient dynamics, microbial growth and weed emergence in biochar amended soil are influenced by time since application and reapplication rate. **Agriculture, Ecosystems, and Environment** 158: 192-199.
- Leppi, J.C., T.H. **DeLuca**, S. Harrar, S.W. Running. 2012. August stream discharge trends exhibit impacts of climate change in the Central-Rocky Mountains of North America. **Climatic Change** 112:997-1014.
- Jones, D.L., J. Rousk, G. Edwards-Jones, T.H. **DeLuca**, and D.V. Murphy. 2012. Biochar-mediated changes in soil quality and plant growth in a three year field trial. **Soil Biology and Biochemistry** 45:113-124.
- Makoto, K., M. Hirobe, T.H. **DeLuca**, S.V. Bryanin, V.F. Procopchuk, K. Takayoshi. 2011. Effects of fire-derived charcoal on soil properties and seedling regeneration in a recently

- burned *Larix gmelinii*/*Pinus sylvestris* forest. **Journal of Soils and Sediments** 11:1317-1322.
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- Jones, D.L., D.V. Murphy, M. Khalid, W. Ahmad, G. Edwards-Jones, and T.H. **DeLuca**. 2011. Short-term biochar-induced increase in soil respiration is both biotically and abiotically mediated. *Soil Biology and Biochemistry* 43:1723-1731.
- Keeling, E., A. Sala, and T.H. **DeLuca**. 2011. Lack of fire has limited physiological impact on old-growth ponderosa pine in dry montane forests of North Central Idaho. **Ecological Applications** 21:3227–3237.
- Hill, P., R. Quilliam, T.H. **DeLuca**, J. Farrar, M. Farrell, P. Roberts, K. Newsham, D. Hopkins, R. Bardgett and D.L. Jones. 2011. Acquisition and assimilation of nitrogen as peptide-bound and D-enantiomers of amino acids by wheat. *PLOS-One* 6, e19220
- Gundale, M.J., T.H. **DeLuca**, and A. Nordin. 2011. Bryophytes attenuate anthropogenic nitrogen inputs in boreal forests. **Global Change Biology** 17:2743–2753.
- Yakimov, M.M., V. La Cono, F. Smedile, M. Ferrer, T.H. **DeLuca**, P.N. Golyshin, and L.Giuliano. 2011. Contribution of crenarchaeal autotrophic ammonia oxidizers to the dark primary production in Tyrrhenian Deep Waters (Central Mediterranean Sea). **ISME Journal** 5:945-961.
- DeLuca**, T.H., G.H. Aplet, H. B. Wilmer, and J. Burchfield. 2010. The unknown trajectory of forest restoration: a call for ecosystem monitoring. **Journal of Forestry** 108:288-295.
- Naficy, C., A. Sala, E. G. Keeling, J. Graham, T.H. **DeLuca**. 2010. Interactive effects of historical logging and fire exclusion on contemporary structure of ponderosa pine/Douglas-fir forests of the Northern Rockies. **Ecological Applications** 20:1851-1864.
- Ball, P.M., M.D. MacKenzie, T.H. **DeLuca**, and W.B. Holben. 2010. Wildfire and charcoal enhance AOB in forests of the Inland Northwest. **Journal of Environmental Quality** 39:1243-1253.
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### **Refereed Book Chapters and Selected Non-Refereed Publications**

- DeLuca**, T.H., M.J. Gundale, M.D. MacKenzie, S. Gao, and D.L. Jones. 2023. Biochar effects on soil nutrient transformation. Chapter 16. In: Lehmann, J. and Joseph, S. (eds), 3rd ed. Biochar for Environmental Management. Earthscan Publications Ltd, London. In Press (Refereed)
- DeLuca**, T.H. 2022. The New Elliott State Research Forest: Sustainable Forestry for the 21<sup>st</sup> Century. The Learning Tree 12:6-8. (Biannual newsletter published jointly by the Washington State Department of Natural Resources and the Olympic Natural Resources Center).
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- Gao, S. and T.H. **DeLuca**. 2021. The Formation and Importance of Soil Organic Matter in Ecosystem Health. Chain Reaction (Chemists Without Borders Newsletter). 33:5-6.
- DeLuca**, T.H. and S. Gao. 2020. Fire, Soil, and Post-Fire Recovery. Chain Reaction (Chemists Without Borders Newsletter). 32:3-4.
- DeLuca**, T.H. S. Gao, M.R.A. Pingree. 2019. Assessing soil biological health in forest ecosystems. Chapter 16. Pp 397-426. In: Page-Dumroese, D., M. Busse, C. Giardina, D. Morris. Global Change and Forest Soils: Conservation of a Finite Natural Resource. Elsevier (**Refereed**).
- DeLuca**, T.H. and S. Gao. 2019. Chapter 3. Use of Biochar in Organic Farming. Pp. 25-49. In: S. Chandran C. S. Thomas and M. R. Unni (eds). Organic Farming: New Advances Towards Sustainable Agricultural Systems. Springer, New York.
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#### NEWS ARTICLES, FEATURES

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#### RESEARCH GRANTS AND PROPOSALS

- Eisenberg, C., T.H. DeLuca, C. Dunn, T. Kaye. 2022. Pacific Northwest Tribal Conservation Corps Pilot Project for Seeds of Success. Bureau of Land Management. \$5,000,000
- Eisenberg, C. and T.H. DeLuca. 2022. Fort Belknap Indian Community Seeds of Success Native Seed and Grassland Restoration Project. Bureau of Land Management. \$1,300,000.
- Chen, C., A. Ball, T.H. DeLuca, B. Turner, S. Wakelin, Y. Kuzyakov, Y. Wang. 2021. Application Title: Unravelling soil carbon response to warming in fire-affected ecosystems. Australian Research Council (Australia) Grant. Discovery Project Grant ID: DP210101600. \$586,842 (AUS\$).
- DeLuca, T.H. 2018. A Mass Timber Innovation Kiosk and Workshop at the University of Montana. USFS Wood Innovation Financial Assistance Award. \$10,000.
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- DeLuca, T.H. and M.D. MacKenzie. 2004. Nitrogen fixation in ponderosa pine ecosystems of western Montana. USDA-McIntire Stennis. \$47,500.
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- DeLuca, T.H., C. Fiedler, and E.O. Skogley. 1994. Influence of selection cutting and underburning on soil organic matter quality and nitrogen availability in uneven age ponderosa pine stands. McIntyre-Stennis Program. \$41,902.
- DeLuca, T.H. and V. Watson. 1994. Use of compost in the reclamation of an abandoned mine site in the Upper Blackfoot River Basin. Mont. Trout Found. \$3,000.
- DeLuca, T.H. 1994. Relationship of soluble sugars to microbial activity in forest and range soils. University Grants Program. \$2,058.
- DeLuca, T.H. 1994. Slippery Rock compost facility. Pennsylvania DER Act 198 Program. \$152,000.
- DeLuca, T.H. and L.E. Drinkwater 1993. Occurrence and productivity of free-living and associative nitrogen fixing bacteria in cropping systems of Pennsylvania. SSHE Professional Development Council. \$4,240.

### **HONORS AND SOCIETIES**

- 1993 Iowa State University Research Excellence Award
- 1996 Professor of the Year, The University of Montana School of Forestry Graduate Students.
- 1998 Nominee for USDA Teacher of the Year
- 2002 S-7 Oral Presentation Award, Soil Science Society of America, Indianapolis
- 2004 Student Affairs Honoree for Outstanding Advising. The University of Montana
- 2005 Student Affairs Honoree for Outstanding Advising. The University of Montana
- 2005 S- 7 Oral Presentation Award, Soil Science Society of America, Salt Lake City

Sigma Xi, 1992 - present.  
Gamma Sigma Delta, 1992 – present.  
Soil Science Society of America, 1985 - present.  
American Society of Agronomy, 1985 - present.  
Soil and Water Conservation Society, 1993 - 2002.  
Society of American Foresters, 1996 – present  
American Water Resources Association, 1996.  
American Association for the Advancement of Science, 1993 - present  
American Association for the Advancement of Science Electorate Committee 2003 - 2007  
University Council on Water Resources, Montana Delegate, 1996 - 2009.  
Ecological Society of America, 2001 – Present.  
Union of Concerned Scientists 2006 – 2010.  
British Ecological Society 2010 – present.  
Who's Who in America  
Who's Who in Science and Engineering  
Who's Who in the Midwest  
Who's Who in the West  
Who's Who in the World  
Who's Who Among America's Teachers  
International Biography  
Wenk Lecture 2015 – University of Washington, Civil Engineering  
PIFI Fellow Chinese Academy of Sciences, Chengdu, China  
Chemists Without Borders 2018 – Present  
Honorary Sergei A. Wilde Lecture –Soil Science Society of America

#### **STUDENT MS THESES AND PhD DISSERTATIONS CHAIRED**

Patterson, W.A. IV. 1996. Influence of llamas, horses and foot traffic on soil erosion from established recreation trails in western Montana. MS Thesis Resources Conservation.  
Zlatnick, W. J. 1997. Site productivity and soil conditions on terraced ponderosa pine stands on the Bitterroot National Forest. MS Thesis Resources Conservation.  
Hodge, R. J. 1997. Where have all the suckers gone: A comparative study of aspen treatments on the Deerlodge National Forest. MS Thesis Forestry.  
Bradley, K.R. 1997. An evaluation of two techniques for the utilization of logging residues: Organic mulch in abandoned road re-vegetation and accelerated decomposition in small chipped piles. MS Thesis Resources Conservation.  
Zouhar, K.L. 1997. Effects of Selection Harvest and Prescribed Burning on Nitrogen Availability in the Mineral Soil Under Ponderosa Pine. MS Thesis Resources Conservation.  
Morse, C.C. 1998. In-situ extraction of rhizosphere carbon from native and invasive plant species. MS Thesis, Forestry.  
Knudsen, J.A. 1998. Use of Basin wild rye as a phytoremediation tool for arsenic contaminated soils. MS Thesis Resources Conservation.

- Newland, J. 1998. Occurrence and abundance of native nitrogen fixing plants in fire exposed ponderosa pine Douglas-fir forests in Western Montana. MS Thesis, Forestry
- Chormanska, U. 2000. The effects of wildfire and prescribed fire on soil C and N dynamics in ponderosa pine forests. Ph.D. Forestry.**
- Hickenbottom, J.A.S. 2000. Comparative analysis of surface erosion and water runoff from existing and reconouted Forest Service Roads: O'Brien Creek Watershed Lolo National Forest, Montana, USA. MS Forestry.
- Archer, V. 2002. Does knapweed access greater phosphorus than lupine in a phosphorus deficient soil? M.S. Forestry
- Walters, D. 2002. Influence of historic salt lick use on soil and vegetation in the Teton Wilderness Area. M.S. Resources Conservation.
- Snyder, C. 2003. Effects of vegetation cover, mowing, and soil temperature on development and survival of two root-feeding biological control insects of spotted knapweed. M.S. Forestry.
- MacKenzie, M.D. 2004. Fire exclusion, forest dynamics, and nitrogen cycling in low elevation forests of western Montana. Ph.D. Forestry.**
- Berglund, L. 2004. Disturbance, nutrient availability, and plant growth in phenol rich plant communities. Ph.D. Ecology, SLU.**
- Kurth, V.J. 2004. Charcoal in ponderosa pine ecosystems of western Montana: decomposition, mineralization, and quantification. MS Forestry.
- Gundale, M.J. 2005. Nitrogen cycling and spatial heterogeneity following fire and restoration treatments in the ponderosa pine/douglas-fir ecosystem. Ph.D. Forestry.**
- Brimmer, R.J. 2006. Charcoal quantity and adsorptive activity in ponderosa pine ecosystems of western Montana. MS Forestry. The University of Montana.
- Burgoyne, T. 2007. Nitrogen fixation in ponderosa pine forests of western Montana. MS Forestry. The University of Montana, Missoula
- Bisbing, S.M. 2008. Carbon dynamics of old-growth and managed fire-dependent forests in the Northern Rockies. MS Forestry. The University of Montana.
- Natalie Meyer. 2009. Characterization and restoration of slash pile burn scars in western Montana. MS Land Restoration. Montana State University. (co-advise with Cathy Zabinski)
- Jason Leppi. 2010. Regional implications of climate change: Summer stream discharge trends in the Northern Rockies. MS Forestry. The University of Montana.
- Sally Rangelcroft. 2010. Biochar: Greenhouse gas sink or environmental toxin? MRes, Bangor University
- Sanatan Das Gupta. 2010. Carbon storage and loss in recently-harvested coniferous plantations in North Wales, MSc, Bangor University
- Sisay Zewdie. 2010. Soil organic carbon content under bracken, grass or *Calluna* heath cover in uplands of North Wales. MSc, Bangor University
- Andrea Goepfrich. 2010 Analysing fire damage in the coarse roots of *Pinus sylvestris* in northern Sweden. MSc, Bangor University
- Muzaffar Hussain. 2011. Use of Yasso 07 to estimate soil carbon storage in Danish soils. MSc, Bangor University.

Chukwudi Amadi. 2011. Influence of bracken fern on phosphorus availability in heathland soils. MSc, Bangor University.

Abdou Jobe. 2011. MSc. Free living nitrogen fixation on successional dunes of Newborough Warren. Bangor University.

Matthew Harris. MRes. 2012. Evaluation of phosphorus limitation in an increasingly nitrogen rich world. Bangor University.

**Kathrin Ackermann Rousk. PhD. 2013. Nitrogen cycling in boreal forest ecosystems. Bangor University.**

Lorena Larrion. MRes. 2013. Unravelling the mystery of Morfa soils and suppression of late blight of potatoes. Bangor University.

Rachel Roberts. MS. 2016. Establishing and understanding psychographic characteristics related to global sustainability. (Co-advise with Denise Wilson, EE). University of Washington.

Si Gao. MS. 2016. Locally produced wood biochar increases nutrient retention in agricultural soils of the San Juan Islands, WA, USA (University of Washington).

**Melissa Pingree. 2017. PhD. Charcoal accumulation and function in fire maintained forests of the Olympic National Park (University of Washington).**

Amanda Bidwell, MS. 2017. Influence of transportation pollutants on epiphytic mosses of the Pacific Northwest. (University of Washington).

Dan Pendergraph, MS. 2019. An Assessment of Fecal Water Contamination in the Absaroka Beartooth Wilderness. University of Montana. (co-advise with Alex Metcalf)

**Si Gao, PhD 2020. Influence of locally produced wood biochar on soil nitrogen and phosphorus dynamics in the northwestern US. (University of Montana).**

#### **Current Students:**

Kathrine McCredie (MS Student, co-advise with Kevin Bladon)

Ben Gustafson (MNR Student)

#### **COMMITTEES AND BOARDS**

Associate Editor, Alternator, Slippery Rock University, 1993 - 1994.

Committee of the Whole. Slippery Rock University, 1993 - 1994.

College of Health and Human Services Tech Committee, Slippery Rock University 1993 - 1994.

School of Forestry Graduate Committee, University of Montana, 1995-1998 (Chair 97/98)

University Court, University of Montana, 1995-97 (Chair in 1997)

Faculty Advisor, University of Montana Competitive Cycling Team, 1995-1999.

Faculty Advisor, ASUM Student Garden Club, University of Montana, 1995-2000.

Bolle Center Director Search Committee, School of Forestry, 1995/96.

Forest Economics Search Committee, School of Forestry, 1996

Integrated Forest Planning Search Committee, School of Forestry, 1996.

Mount Sentinel IPM Committee 1998 – 2000.

Faculty Advisor, 1997 and 1998 Forester's Ball.

Integrated Forest Entomology/Pathology Search Committee (1996/97).

National Undergraduate Research Conference Steering Committee. 1997 - 2000

Board of Directors, Program in Ecological Agriculture and Sustainability, 1996-2000.  
School of Forestry Silviculture Search Committee 1998-1999 (Chair)  
School of Forestry Student Evaluation Committee Advisor, 1999.  
University of Montana, Rhodes Scholarship Committee, 1999.  
School of Forestry Research Committee, 1999 - 2000.  
Board of Directors, Wild Rockies Field Institute, 2001 - 2006.  
College of Forestry Graduate Committee, University of Montana, 2004 -2006(Chair 05/06)  
Council of Soil Science Examiners, SSSA, 2002 – 2005.  
University of Montana Faculty Senate, 2003 – 2005  
University of Montana Campus Sustainability Council, 2003 – 2006.  
American Association for the Advancement of Science, Electorate Committee 2003 – 2008  
The Wilderness Society, Climate Planning Team 2008 - 2009  
The Wilderness Society, Fire Team 2006 – 2009  
Research Committee, SENRGy Bangor University 2009 - 2012  
Theme Leader for Pontio Innovation, Bangor University 2010 – 2012 (paid position)  
Program Development Group: Centre for Ecology and Hydrology. 2010 – 2012  
Research Evaluation Framework Coordinator. SENRGy, Bangor University. 2011 - 2012  
Chair of Forestry Group, SENRGy, Bangor University. 2011 – 2012  
Executive Committee, SENRGy, Bangor University. 2011- 2012  
Doris Duke Scholars Steering Committee 2013 – 2015  
SEFS Planning Committee, 2012 – 2017  
Washington State Board of Natural Resources, Deputy Chair, 2012 – 2017  
University of Washington Farm Steering Committee, 2013 - 2017  
Urban@UW committee member 2015 - 2017  
Academic Prioritization Administrative Services Prioritization Task Force University of Montana  
2017 – 2018 (criteria subcommittee chair)  
iLEAD Advisory Council, University of Montana. 2017 – 2020.  
Membership Growth & Retention Task Force Soil Science Society of America 2017 – 2019  
University Planning Committee, University of Montana. 2018 – 2020  
Sustainable Campus Committee, University of Montana. 2018 – 2020  
Ecosystem Management Research Institute Advisory Board. 2018 – 2020.  
University of Montana Budget Committee, 2018 – 2020.  
Chair, Davidson Honors College Dean Search Committee. 2019.  
Chair, Montana State Arboretum Committee 2019 – 2020  
Governor Appointed Montana Forest Action Council and Advisory Board, 2019 – 2020  
Chair, Search Committee for the Executive Director of the Maureen and Mike Mansfield Center  
2019  
Co-facilitator UM Environment and Sustainability Community of Excellence 2018 - 2020  
Director Cooperative Ecosystem Studies Unit – Rocky Mountain Region 2017 - 2020  
UM Academic Officers Council 2017 – 2020  
Oregon State University Council of Deans 2020 – present  
World Forestry Center Board of Directors 2020 – 2023  
Oregon Forest Resources Institute Advisory Board, non-voting member, 2020 – present  
Chair, CEAS Dean Search Committee Oregon State University 2022 – present

Oregon Natural Resource Institute Board 2023 – present  
OSU Associate General Council Search Committee 2023 – present  
Elliot State Research Forest Advisory Committee 2020 – 2023  
Elliot State Research Forest Board (Ex Officio) 2023 - present

### COURSES TAUGHT

- FORS 595 Graduate Seminar 2017 – present. University of Montana
- SEFS 529/550, SEFS Graduate Seminar (all quarters) 2013 – 2016. University of Washington.
- ESRM 409, Soil Ecology. 2014. Advanced undergraduate course addressing the complexity and function of soil organisms and their relationships. University of Washington.
- DXX 3212, Forest Ecosystems. 2010 - 2012. Bangor University. Advanced class in forest ecosystem ecology, impacts of disturbance and climate change and the role of diversity and forest structure and function in dictating resilience (20 credits).
- DXX 2002, Water, Air, and Soil Pollution. 2011. Bangor University. Overview of the long and short term impacts of anthropogenic pollutants on the air, water, soil continuum (20 credits).
- DXX 3305, Tenerife Field Course 2009-2011. One week field course on landscape ecology, soil morphology and genesis, land degradation, and forest ecology (10 credits).
- **Forestry 210, Introductory Soils** (Taught Fall Semesters 1994 – 2006, and Spring semesters 1998 - current, about 200 student each year). An assessment of the chemical, physical, biological, and morphological properties of soils as they relate to environmental sustainability. Three credits 2 hrs lecture and 3 hrs of lab per week (5 – 6 laboratory sections in fall and 2 laboratory sections in the spring).
- **Forestry 232, Forest Insects and Disease**, Identification, significance, of and remedies for insect infestations and infections and non-infectious diseases of forests and forest products (Team taught, Spring 1996). Two credits.
- **Forestry 310, Soil Physics** (Team Taught Spring 1996). The physical and mechanical properties of soils with special emphasis on the role of water in influencing those properties. 2 hr lecture and 3 hrs lab per week. Three credits.
- **Forestry 410, Soil Morphology, Genesis and Classification**. The morphological characteristics of soils, how horizons formed and an introduction to the Soil Taxonomy classification system used in this country. (Taught Alternate Spring Semesters 1995 – 2005). Three credits
- **Forestry 415, Environmental Soil Science**. Soil disturbance, contamination, and restoration and their role in ecosystem sustainability (Taught 2003 - 2006). Three credits.
- **Forestry 501, Research Methods** The nature of biophysical and social science research, planning research projects, experimental design, and grant writing (Team taught, Fall 1997, Fall 2001 and Fall 2004). Three credits.
- **Forestry 511, Soil Biochemistry** A critical assessment of soil chemical and biological processes as related to ecosystem and global biogeochemistry. Focus provided on soil organic matter dynamics, nutrient turnover, and environmental quality (Taught alternate spring semesters 1995 – 2006). Three credits.

- **Forestry 594, Special Topics in Biogeochemistry.** Critical assessment of current issues in soil biology and biochemistry (taught fall semester 1998 - 2006). One credit.
- **PREE 595, Soils as a Resource** (3 Cr., Fall 1993). An analysis of soils as a natural resource and pivotal component of living ecosystems.
- **PREE 601b, Analysis of Professional Literature** for MS3 (3 Cr., Fall 1993). Critical assessment of current literature in sustainability.
- **PREE 601a, Analysis of Professional Literature for Recreation Students** (3 Cr., Fall 1993)
- **PREE 601c, Analysis of Professional Literature for Correspondence** (3 Cr., Fall, 1993)
- **PREE 642, Agroecology** An analysis of organic and alternative agricultural systems as related to large and small scale agriculture (3 Cr., Spring 1994)
- **PREE 799, Research Methods for MS<sup>3</sup>** (3 Cr., Spring 1994) An analysis of scientific approach to research and evaluation of statistical tools used in the analysis of data.

### MANUSCRIPT REVIEWS

#### Editorial Duties

Associate Editor, *Pedobiologia*, 2010 – present  
Submission Editor, *Journal of Soils and Sediments* 2010 – 2014  
Associate Editor- *Frontiers in Quaternary Sciences* 2014 – present  
Associate Editor – *Nitrogen*. 2018 – present  
Associate Editor – *Forests* 2020 - present

#### ***One or More Reviews for the Following Journals***

*Journal of Environmental Quality*  
*Journal of the American Water Resources Association*  
*Advances in Environmental Research*  
*Soil Science Society America Journal*  
*Introductory Soil Science Text, Saunders University Press*  
*Journal of the American Water Resources Association*  
*European Journal of Soil Biology*  
*Soil Biology and Biochemistry*  
*Forest Ecology and Management*  
*Canadian Journal of Forest Research*  
*Journal of Range Ecology and Management*  
*International Journal of Wildland Fire*  
*Australian Journal of Soil Research*  
*Annals of Forest Science*  
*Ecology*  
*Ecological Applications*  
*Environmental Management*  
*Agronomy Journal*  
*Geoderma*  
*Restoration Ecology*

Western Journal of Applied Forestry  
Pedobiologia  
Ecosystems  
Journal of Ecology  
Science of the Total Environment  
Global Change Biology  
Oecologia  
Oikos  
Journal of Soils and Sediments  
Ecosystems  
Chemosphere  
Nature  
Environmental Science and Technology  
New Zealand Journal of Ecology  
Ecosphere (*ad hoc* subject-matter editor)  
Science  
Science Reports (NPG)  
Science of the Total Environment  
Ecology Letters  
Frontiers in Earth Sciences  
Nature Geosciences  
Forests  
Frontiers in Forests and Global Change

#### **ABSTRACTS, PROCEEDINGS AND PRESENTATIONS**

- DeLuca, T.H. and E.O. Skogley. 1986. Banding of inoculated elemental sulfur to increase the phytoavailability of phosphorus. 78th Ann. Meet. ASA, New Orleans. Agron. Abst. p. 197.
- DeLuca, T.H. and H.D. Shew. 1988. Inhibition of growth and reproduction of *Phytophthora parasitica* var. *nicotianae* by aluminum. Annual Meetings of the American Phytopathological Society. San Diego, CA. *Phytopath.* 78:1576.
- Swan, J.B. and T.H. DeLuca. 1991. Using N-LEAP for crop production in Iowa. Annual Conference of the Leopold Center for Sustainable Agriculture. L.C. Conf. Proc. p. 96.
- DeLuca, T.H., D.R. Keeney, and G.W. McCarty. 1991. Effect of freeze-thaw events on mineralization of soil N and release of soluble carbon. 83rd Annual Meeting of the ASA. Agron. Absts. p. 262.
- DeLuca, T.H. and D.R. Keeney. 1992. Soluble organics and available nitrogen in paired prairie and cultivated soils in central Iowa. Annual Conference of the Leopold Center for Sustainable Agriculture. L.C. Conf. Proc. p. 80.
- DeLuca, T.H. and D.R. Keeney. 1992. Soluble C and N in prairie and cultivated soils. 1992 Annual Meetings of the Iowa Academy of Sciences.
- DeLuca, T.H. and D.R. Keeney. 1992. Soluble organics and extractable N in prairie and cultivated soils. 13th North American Prairie Conference. Windsor Ontario.



- DeLuca, T.H. and D.R. Keeney. 1992. Seasonal changes in soluble organics and microbial biomass in paired prairie and cultivated soils. 84th Annual Meeting of the ASA. Agron. Absts. p. 253.
- DeLuca, T.H. and D.R. Keeney. 1992. Soluble anthrone reactive carbon (ARC) as affected by plant residue additions to soil. 84th Annual Meeting of the ASA. Agron. Absts. p. 261.
- Keeney, D.R. and T.H. DeLuca. 1992. Agricultural contribution of nitrate to the Des Moines River: 1945 vs 1980s. Proc. Crop Prod. Prot. Conf. Iowa State Univ. Ames, IA. pp. 109-120.
- Keeney, D.R. and T.H. DeLuca. 1993. Agricultural contribution of nitrate to the Des Moines River: 1945 vs 1980s. Proc. Agricultural Research to Protect Water Quality Mnpls., MN pp 328-332.
- DeLuca, T.H., R.S. Pirog, and D.R. Keeney. 1993. Leopold Center for Sustainable Agriculture: A systems approach to agricultural conservation. The Next Generation of Agricultural Conservation Policy. Kansas City, MO.
- DeLuca, T.H. 1993. Integrated nitrogen management for crop production in the Midwest. Illinois Sustainable Agriculture Association Conference, Bloomington, IL. (Invited Presentation).
- DeLuca, T.H. 1993. The Leopold Center and Practical Farmers of Iowa: A unique complement for sustainable agriculture (Invited Presentation). North Central Sustainable Agriculture Workshop. Ohio State University, Columbus, OH.
- DeLuca, T.H. 1993. Paired prairie and cultivated soils: Soluble organics and nitrogen dynamics (Invited Lecture). Rodale Research Institute, Kutztown, PA.
- DeLuca, T.H. and D.R. Keeney. 1993. Nitrate assimilation in prairie and cultivated soils. 85th Annual meeting of the ASA, Cincinnati, OH. Agron. Absts. p 245.
- DeLuca, T.H. 1994. Paired prairie and cultivated soils: Soluble organics and nitrogen dynamics (Invited Lecture). Institute for Soil Science and Photosynthesis, Pushchino, Russia.
- DeLuca, T.H., L.R. Drinkwater, and B.A. Wiefeling. 1994. Occurrence and activity of free-living N fixing bacteria in cropping systems of Pennsylvania. 86th Annual meeting of the ASA, Seattle, WA. Agron Absts. p.285.
- DeLuca, D.K. and T.H. DeLuca. 1996. Composting beef feedlot manure: A sustainable element in an industrialized agriculture. CPR Symp. Montana Acad. Sci. Missoula, MT.
- Zouhar, K.L. and T.H. DeLuca. 1996. Effects of selection cutting and prescribed burning on soil nitrogen in ponderosa pine forests. CPR Symp. Montana Acad. Sci. Missoula, MT.
- DeLuca, T.H. and E.L. Lynch. 1996. Treatment of mine tailings to reduce metal mobility and encourage restoration of a mountain stream. CPR Symp. Montana Acad. Sci. Missoula, MT.
- DeLuca, T.H. and E.L. Lynch. 1996. Treatment of mine tailings to reduce metal mobility and encourage restoration of a mountain stream in Montana. pp 499-508 In: Watershed restoration management: physical, chemical, and biological considerations. J.J. McDonnell, J.B. Stribling, L.R. Neville, and D.J. Leopold (eds). Am Water Res. Assn. Herndon, VA.
- DeLuca, T.H. 1996. Soluble sugars as an index of bioavailable carbon in forest soils. 88th Annual meeting of the ASA, Indianapolis, IN. Agron Absts. p.236.

- Patterson, W.A., T.H. DeLuca, W.A. Friemund, and D.N. Cole. 1996. Influence of llama, horse, and hiker traffic on soil erosion from established recreation trails in western Montana. 88th Annual meeting of the ASA, Indianapolis, IN. Agron Absts. p.292.
- Zouhar, K.L. and T.H. DeLuca, 1996. Effects of single tree section cutting and underburning on mineral soil nitrogen in ponderosa pine/Douglas fir stands. 88th Annual meeting of the ASA, Indianapolis, IN. Agron Absts. p.308.
- Choromanska, U. and T.H. DeLuca. 1996. Influence of fire exclusion, and carbon removal on soil nutrient cycling in second growth ponderosa pine forests. 88th Annual meeting of the ASA, Indianapolis, IN. Agron Absts. p.304.
- Morse, C.C. and T.H. DeLuca. 1997. In-situ extraction of rhizosphere carbon from native and invasive plant communities. Annual meetings of the Ecological Society of America, Albuquerque, NM
- DeLuca, T.H. 1997. Influence of selection cutting and underburning on nitrogen availability in ponderosa pine stands. Seminar Series Presentation, Division of Biological Sciences, University of Montana
- Choromanska, U., and T. H. DeLuca. **1997 (Nov)**. Immediate effects of soil heating under different moisture regimes on carbon and nitrogen dynamics in forest soils. Annual meetings of the ASA. Anaheim, CA. Agron. Absts. p. 287.
- Morse, C.C. and T.H. DeLuca. **1997 (Nov)**. In-situ extraction of rhizosphere carbon from native and invasive plant communities. Annual meetings of the ASA. Anaheim, CA. Agron. Absts. p. 209.
- DeLuca, T.H. and K.L. Zouhar. **1998**. Effect of selection cutting and prescribed fire on N dynamics in ponderosa pine forests. Ninth North American Forest Soils Conference, Lake Tahoe, CA
- Choromanska, U. and T.H. DeLuca. **1998**. Effects of wildfire with and without previous prescribed burning on N availability in ponderosa pine forests. Ninth North American Forest Soils Conference, Lake Tahoe, CA
- DeLuca, T.H. and K.L. Zouhar. 1998. Effect of selection cutting and prescribed fire on N dynamics in ponderosa pine forests. Bitterroot Ecosystem Management Conference, Missoula, MT.
- DeLuca, T.H. 1999. Soil science at the University of Montana. Reunion of Soil Scientists, Montana State University, Bozeman, MT.
- Newland, J. and T.H. DeLuca. 1999. Occurrence and abundance of native nitrogen fixing plants in fire exposed ponderosa pine Douglas-fir forests in Western Montana. Bitterroot Ecosystem Management Conference, Missoula, MT.
- Choromanska, U. and T.H. DeLuca. 1999. Effects of wildfire with and without previous prescribed burning on N availability in ponderosa pine forests. Bitterroot Ecosystem Management Conference, Missoula, MT.
- DeLuca, T.H., C.A. Zabinski, and D.C. Cole. 1999. Impact and restoration of subalpine campsites in the Eagle Cap Wilderness. Ecological Society of America, Spokane, WA.
- DeLuca, T.H. and U. Choromanska. 1999. Does fire suppression parallel nitrogen saturation? Annual meetings of the ASA. Salt Lake City, UT. Agron. Absts. p. 305.

- Choromanska, U. and T.H. DeLuca. 1999. The effects of harvest and prescribed fire on soil nitrogen dynamics in ponderosa pine forests. Annual meetings of the ASA. Salt Lake City, UT. Agron. Absts. p. 309.
- Newland, J. and T.H. DeLuca. 1999. Nitrogen fixing plants in fire exposed ponderosa pine forests of Western Montana. Annual meetings of the ASA. Salt Lake City, UT. Agron. Absts. p. 296.
- Vitateau, A. and T.H. DeLuca. 1999. Influence of mine reclamation amendments on metal mobility and water pollution potential. Annual meetings of the ASA. Salt Lake City, UT. Agron. Absts. p. 304.
- VanderMeer, M, and T.H. DeLuca. 1999. Ecological influences of logging residues under alternative management systems. Annual meetings of the ASA. Salt Lake City, UT. Agron. Absts. p. 304.
- DeLuca, T. H. 2000. Soil nitrogen in fire excluded and exposed ponderosa pine stands of western Montana. Invited presentation to the Jones Ecological Research Center. Ichuaway, GA.
- DeLuca, T. 2000. The biological basis for soil building. Organic Certification Association of Montana, Hot Springs, MT.
- DeLuca, T.H. 2000. Fire intervals and soil nitrogen dynamics. In ponderosa pine ecosystems. International Symposium on Managing forest soils for sustainable productivity. Vila Real, Portugal. Abst. P. 129.
- DeLuca, T.H., M-C. Nilsson, and O. Zackrisson. 2001. Nitrogen mineralization and phenol accumulation along a fire chronosequence in northern Sweden. Annual Meetings of the ESA, Madison, WI. ESA Abst P. 79-80.
- MacKenzie, D.M., T.H. DeLuca, and A. Sala. 2001. Influence of fire exclusion on stand structure and nitrogen cycling in ponderosa pine/Douglas-fir forests of Western Montana. Annual Meetings of the ESA, Madison, WI. ESA Abst P. 313.
- Vitateau, A. and T.H. DeLuca. 2001. Influence of organic mine reclamation amendments on metal mobility and water pollution potential. Annual Meeting of the Montana AWRA, Missoula, MT.
- DeLuca, T.H., M-C. Nilsson, and O. Zackrisson. 2002. Fire, N mineralization, and charcoal in boreal forests of Northern Sweden. Annual meetings of the ASA. Indianapolis, IN.
- MacKenzie, D.M., T.H. DeLuca, and A. Sala. 2002. Nitrogen dynamics along a fire chronosequence in ponderosa pine/Douglas-fir forests of Western Montana. Annual Meetings of the ASA, Indianapolis, IN.
- Gundale, M.J. and T.H. DeLuca. 2002. Fire surrogates in a western Montana ponderosa pine forest: Influence on spatial variability of nitrogen and vegetation diversity. Annual Meetings of the ASA, Indianapolis, IN.
- Zabowski, D., D.W. Johnson D. Neary, and T. DeLuca. 2002. The role of fire in western forests. Annual Meetings of the ASA, Indianapolis, IN. **(Invited)**
- DeLuca, T.H. 2003. Nitrogen cycling in boreal forests of Northern Sweden. Biogeochemistry-Biocomplexity Program, Cornell University **(Invited)**
- DeLuca, T.H. 2003. Fire, legumes and nitrogen cycling in ponderosa pine forests. Montana Native Plant Society, Spring Seminar, Missoula, MT.

- Hart, S.C. and T.H. DeLuca. 2003. Direct and indirect effects of fire on microbial community structure and function in forest soils. 14<sup>th</sup> North American Forest Soils Conference, Sault St. Marie.
- MacKenzie, D.M., T.H. DeLuca, and A. Sala. 2003. Nitrogen mineralization, diversity, and succession along a fire chronosequence in Western Montana. Annual meetings of the CSSS. Montreal.
- DeLuca, T.H. 2003. Nutrient cycling in ponderosa pine ecosystems. USDA-Fire Laboratory Seminar Series: **(Invited)**
- DeLuca, T.H., O. Zackrisson, M-C. Nilsson, and A. Sellstedt. 2003. Nitrogen fixation in feather moss carpet of Northern Sweden. Annual meetings of the ASA. Denver, CO.
- MacKenzie, D.M., T.H. DeLuca, and A. Sala. 2003. Nitrogen mineralization, diversity, and succession along a fire chronosequence in Western Montana. Annual meetings of the ASA. Denver, CO.
- Kurth, V.J. and T.H. DeLuca. 2003. The role of charcoal in litter decomposition in *Pinus ponderosa* ecosystems of western Montana. Annual meetings of the ASA. Denver, CO.
- Gundale, M.J. and T.H. DeLuca. 2003. Spatial variability of nitrogen and vegetation as influenced by prescribed fire. Annual meetings of the ASA. Denver, CO.
- Gundale, M.J. and T.H. DeLuca. 2004. Nutrient availability as influenced fire and fire surrogate treatments in western Montana. Annual meetings of the ESA. Portland, OR.
- MacKenzie, D.M., T.H. DeLuca, and Gundale, M.J.. 2004. Charcoal influences nitrogen turnover in forest soils. Annual meetings of the ESA. Portland, OR.
- Kurth, V.J. and T.H. DeLuca. 2004. A method for the determination of charcoal in soil. Annual meetings of the ESA. Portland, OR.
- Brimmer, R. and T.H. DeLuca. 2004. Charcoal content and phenol sorption as influenced by fire history. Annual meetings of the ESA. Portland, OR.
- Sala, A. T.H. DeLuca, and E. Keeling. 2004. Fire history and vegetation patterns in wilderness areas of the Inland Northwest. Annual meetings of the ESA. Portland, OR.
- DeLuca, T.H. 2005. Role of fire and fire exclusion in forest nitrogen cycling. Annual Meetings of the Ecological Society of America, Montreal. **(invited)**
- Sala, A. E.A. Keeling, and T. H. DeLuca. 2005. Natural fire intervals and forest physiological forest function in ponderosa pine forests. Annual Meetings of the Ecological Society of America. Montreal.
- DeLuca, T.H., A. Sala, M.D. MacKenzie, P. Ball, W.E. Holben. 2005. Fire intervals and nitrification in ponderosa pine forests. Annual Meetings of the Soil Science Society of America, Salt Lake City, Utah.
- Brimmer, R. and T.H. DeLuca. 2005. DOC to DON Ratios in Ponderosa Pine-Douglas-Fir Forest Soils of Fire-Excluded and Frequently Burned Sites. Annual Meetings of the Soil Science Society of America, Salt Lake City, Utah.
- Burgoyne, T. and T.H. DeLuca. 2005. Nitrogen Fixation in *Pinus Ponderosa* Forest Soils of Western Montana. Annual Meetings of the Soil Science Society of America, Salt Lake City, Utah.
- McKinnon, J. and T.H. DeLuca. 2005. Soil Nutrient Stoichiometry as Influenced by Fire Return Intervals in Ponderosa Pine Forests. Annual Meetings of the Soil Science Society of America, Salt Lake City, Utah.

- DeLuca, T.H. and G.H. Aplet. 2007. Forest restoration, charcoal and carbon storage. Annual Meetings of the Ecological Society of America. San Jose.
- Meyer, N.J., C. Zabinski, and T.H. DeLuca. 2007. Characterization and restoration of slash pile burn scars in western Montana. Annual Meetings of the Ecological Society of America. San Jose.
- DeLuca, T.H. 2007. Forest restoration: Soil function portends sustained ecosystem health. International Forest Soils Symposium, Noosa Australia. **(Invited Keynote)**
- DeLuca, T.H. 2007. Ecological concerns of forest biomass based cellulosic ethanol production. Biofuels, carbon, and policy, Minneapolis MN. October, 2007 **(Invited)**
- DeLuca, T.H. 2007. Fire, succession and nitrogen fixation in boreal forest ecosystems. Seminar Biological Sciences, McGill University, Montreal. **(Invited)**
- DeLuca, T.H. 2008. Adapting to Climate Change: The Importance of Wilderness in an Uncertain World. Wilderness Seminar Series, The University of Montana, Missoula. **(Invited)**
- DeLuca, T.H., O. Zackrisson, and M.J. Gundale. 2008. Highway emissions reduce nitrogen fixation in northern Sweden. Annual Meetings of the Ecological Society of America. Milwaukee, WI
- Bisbing, S.M., T.H. DeLuca, and P. Alaback. 2008. Carbon storage in oldgrowth western larch forests of western Montana. Annual Meetings of the Ecological Society of America. Milwaukee, WI
- DeLuca, T.H. 2008. Climate change, fire, and forest health. Public Land Law Conference, Missoula MT. September 23, 2008. **(Invited)**
- DeLuca, T.H. 2008. Charcoal and nitrogen cycling in forest ecosystems. Symposium --Black Carbon in Soils and Sediments. Joint Annual Meetings of the Soil Science Society of America and Geological Society of America. Houston, TX. **(Invited)**
- DeLuca, T.H. 2008. Adapting to Climate Change: The Importance of Wilderness in an Uncertain World. Invited Public Seminar: Sponsored by Friends of Scotch Peaks Wilderness, Sandpoint, ID. **(Invited)**
- DeLuca, T.H. and G.A. Aplet. 2008. Fire, charcoal, and carbon storage in forest ecosystems. Western Fire Ecology Conference, San Diego, CA **(Invited)**
- DeLuca, T.H. 2009. Charcoal as a legacy of fire in forest ecosystems. Graduate Research Conference Guest Speaker. University of Aberdeen. **(Invited)**
- DeLuca, T.H. 2010. Fire, succession, and nitrogen fixation in Swedish boreal forests. Lancaster University Invited Seminar Series. **(Invited)**
- DeLuca, T.H. 2010. Fire, succession, and nitrogen fixation in Swedish boreal forests. CEH Seminar Series. Edinburgh. **(Invited)**
- DeLuca, T.H. 2011. Fire, charcoal and N transformation in coniferous forest ecosystems. Swansea University Geography Seminar Series. **(Invited)**
- DeLuca, T.H., D.L. Jones, G.E. Jones, and D. Murphy. 2011. Biochar research at Bangor University. UK Biochar 2011. Edinburgh May 25 – 26. **(Invited)**
- DeLuca, T.H. 2011. Nitrogen fixation explain historic productivity in alluvial meadows of northern Sweden. Keynote, Plant-Soil Interaction Workshop. Lancaster University. **(Invited)**
- DeLuca, T.H. 2012. Nitrogen fixation in upland and alluvial boreal ecosystems. Climate Change Seminar Series, Geosciences, Edinburgh University 8 February, 2012. **(Invited)**

- DeLuca, T.H. 2012. Nitrogen fixation explain historic productivity in alluvial meadows of northern Sweden. Ecological Society of America. August 13, 2012.
- DeLuca, T.H. O. Zackrisson, I. Bergman, and G. Hörnberg. 2013. Historical land use and resource depletion in spruce-Cladina forests of Northern Sweden. 14th North American Forest Soils Conference. Whitefish Montana.
- DeLuca, T.H. 2013. Future of Forestry Education in the Pacific Northwest. Washington Forest Protection Association Annual Meeting **(Invited)**
- DeLuca, T.H. 2014. Fire, charcoal and nutrient cycling in forest soils. Oregon State University **(Invited seminar)**.
- DeLuca, T.H. O. Zackrisson, I. Bergman, B. Díez, and B. Bergman. 2014. Diazotrophy in alluvial meadows of Subarctic river systems. Joint Aquatic Sciences Meeting: Portland **(Invited talk and panel)**.
- DeLuca, T.H. 2014. Forest and Environmental Sciences and Sustainability: A Quest for sustainability in the 21st Century. **Wenk Lecture**, Civil and Environmental Engineering, University of Washington **(Invited)**
- DeLuca, T.H. 2014. Forestry and Forest Sciences in the 21<sup>st</sup> Century. Society of American Foresters State Meeting. St Martin's University, Lacy, WA. **(Invited)**
- Pingree, M. and T.H. DeLuca. 2014. Dissolved organic carbon adsorption by charcoal in fire-impacted watersheds of the Olympic Peninsula, Washington. SSSA Annual Meetings, Long Beach, CA.
- DeLuca, T.H. 2015. Charcoal as a legacy of fire. UC Santa Barbara **(Invited)**
- DeLuca, T.H. 2015. Managing soil carbon in temperate and boreal ecosystems: First, do no harm. Alberta Workshop on Soil Science. Edmonton Alberta. **(Invited Keynote)**
- DeLuca, T.H. 2015. Nutrient cycling in the boreal forest: An overview and new insights. Boreal N Gap Workshop, Bangor University, UK. **(Invited Keynote)**
- DeLuca, T.H. 2015. Laying the Foundation for Forestry, University of Washington. Annual Meetings of the American Forest Resource Council, Skamania Lodge, Stevenson, WA. **(Invited)**
- DeLuca, T.H. 2015. Forestry and Forest Sciences at the University of Washington. Society of American Foresters State Meeting. Chehalis, WA. **(Invited)**
- DeLuca, T.H. 2015. Panel Member Forterra Building for a Sustainable Future: Rural communities: Production of CLT/Mass Timber in WA **(Invited)**
- DeLuca, T.H. 2015. Boreal Ecosystem Nitrogen Cycling: A perspective of scales. International Symposium on Forest Soils, Fuzhou China, **(Invited Keynote Speaker)**.
- DeLuca, T.H. 2015. Panel Member, Plenary Session 3– Recreating Forestry Through Education. November 3- 5 SAF Annual Meeting Discussion **(Invited)**
- Pingree, M.R. 2015. Charcoal adsorption of organic C along a fire chronosequence, Olympic Peninsula, WA. Soil Science Society of America, Annual Meetings, Minneapolis, MN
- DeLuca, T.H. 2015. A biologically based method for assessing phosphorus across complex landscapes. Soil Science Society of America, Annual Meetings, Minneapolis, MN
- DeLuca, T.H. 2016. Biochar and agricultural soils. San Juan Agricultural Summit. Friday Harbor, WA **(Invited)**
- DeLuca, T.H. Cross laminated timber and forest health. Port of Port Angeles CLT Workshop **(Invited)**

- DeLuca, T.H. 2016. Fire, succession and nitrogen cycling in boreal forest ecosystems. Chinese Academy of Sciences, Chengdu, China. **(Invited)**
- DeLuca, T.H. 2016. A walk in the woods. State Society of American Foresters Meeting. La Connor, WA. **(Invited Keynote)**.
- DeLuca, T.H. 2016. Fire, succession and nitrogen cycling in boreal forest ecosystems. University of Victoria, Forest Biology Seminar **(Invited)**
- DeLuca, T.H. 2017. Future of forestry and forest sciences at the University of Montana. SAF Missoula Chapter. **(Invited)**.
- DeLuca, T.H. 2017. A Building for the WA Franke College of Forestry and Conservation: Showcasing Sustainable Forestry and Green Building. Montana Wood Building Rising. Columbia Falls, MT **(Invited)**.
- DeLuca, T.H. 2017. Boreal Ecosystem Nitrogen Cycling: A perspective of scales. LRES Graduate Seminar. Montana State University, Bozeman. **(Invited)**
- DeLuca, T.H. 2018. Fire and nutrient cycling in fire maintained forest ecosystems. Northern Region Post-Fire Soil, Water Fish Meeting. Missoula. **(Invited)**
- DeLuca, T.H. 2018. Fire as a Dynamic Driver of Nitrogen Cycling in Forest Soils. North American Forest Soils Conference. Quebec City, Quebec **(invited Keynote)**.
- DeLuca, T.H. 2018. Panel member. Wood products and higher education. NW Wood Products Association Meeting. Portland Oregon
- DeLuca, T.H. 2018. Panel Member. Missoula Chamber of Commerce, Timber Tour. Missoula, MT.
- DeLuca, T.H. 2019. Fire, soils and forest management: Fact and Fiction. USFS Region 1 Soils and Silviculture Workshop. Missoula, MT (Invited)
- DeLuca, T.H. 2019. University of Montana Franke College of Forestry and Conservation Updates. Montana SAF Annual Meeting. Butte, MT (Invited)
- DeLuca, T.H. and S. Gao. 2019. Connections to natural soil carbon: Can prescribed fire help restore charcoal to forest soils? Forest Biomass and the Bioeconomy, Vancouver, WA **(Invited)**.
- DeLuca, T.H. 2019. Organized CLTree Mass Timber Workshop, Missoula, MT. Half day mass timber workshop (SAF approved CE credits) and ribbon cutting for CLTree. Missoula, MT
- DeLuca, T.H. 2019. Mass timber and UM. Montana Wood Products Association Annual Meeting, Missoula, MT (Invited)
- DeLuca, T.H. 2019. Welcome address. North American Forest Council (UN, USA, Mexico, Canada, and FAO Forestry Leadership Meeting), Missoula, MT. (Invited)
- DeLuca, T.H. 2019. Charcoal as a legacy of wildfire in the Rocky Mountain West. Department of Geography Colloquium (Invited).
- DeLuca, T.H. 2020. Fire, Soils and Forest Health. Oregon Forest Health Conference, Corvallis OR. (Invited Keynote).
- DeLuca, T.H. 2020. Future of forestry at colleges and universities. Intermountain Roundwood Association Meeting, Missoula, MT. (Invited Keynote).
- DeLuca, T.H. 2020. Bandy Ranch. Biennial Conference on Undergraduate Education in Natural Resources. Missoula, MT (Invited).
- DeLuca, T.H. 2020. Fire, forest soils, and resilience in a changing climate. Cascadia Corridor: Wildfire and Urban Smoke Seminar Series. Virtual Portland State University (Invited)

- DeLuca, T.H. 2020. Wilde-Fire: Fire, forest soils, and resilience in a changing climate. Soil Science Society America Annual Meetings Honorary Sergei A. Wilde Lecture (Invited Award Lecture)
- DeLuca, T.H. 2021. Leadership from the bottom up. Annual Meeting of the Society of American Foresters State Chapter Oregon (Invited)
- DeLuca, T.H. 2021. Forestry at OSU: Sustainability and Resilience in a Changing World. SAF Mary's Peak Chapter (Invited)
- DeLuca, T.H. 2021. Forestry at OSU: Sustainability and Resilience in a Changing World. SAF Portland Chapter (Invited)
- DeLuca, T.H. 2021. Boreal Ecosystem Nitrogen Cycling: A Perspective of Scales. Oregon Annual Meeting of the Soil Science Society (Invited Keynote).
- DeLuca, T.H. 2021. Carbon storage in Oregon forests. Governor's Global Warming Commission (Invited, April 24, 2021).
- DeLuca, T.H. 2021. Boreal Ecosystem Nitrogen Cycling: A Perspective of Scales. Oregon Annual Meeting of the Soil Science Society (Invited Keynote).
- DeLuca, T.H. 2021. Leadership from the bottom up. Annual Meeting of the Society of American Foresters State Chapter Oregon (Invited)
- DeLuca, T.H. 2021. Forestry at OSU: Sustainability and Resilience in a Changing World. SAF Mary's Peak Chapter (Invited)
- DeLuca, T.H. 2021. Forestry at OSU: Sustainability and Resilience in a Changing World. SAF Portland Chapter (Invited)
- DeLuca, T.H. 2021. Defining Working Forests. Annual Meeting of the Oregon Small Woodland Owners Association (Invited Keynote).
- DeLuca, T.H. 2021. Fire effects on soil health. Annual Meetings of the National Academies of Science, Engineering and Medicine. Board of Earth Science and Resources. (Invited Keynote).
- DeLuca, T.H. and S. Gao. 2021. Climate change, forests, fire and soil health. San Juan Islands Forest Health Collaborative Conference. (Invited).
- DeLuca, T.H. 2021. College of Forestry, Innovation for Sustainability and Climate Change. Climate Change and Sustainability Forum. Oregon China Council (Invited).
- DeLuca, T.H. 2022. Prescribed fire and soil health. Family Foresters Workshop. University of Idaho, Moscow, ID. (Invited)
- DeLuca, T.H. 2022. Reimagining forestry for climate resilience. American Society for Landscape Architecture. Portland (Invited honor lecture).
- DeLuca, T.H. Gao, S. C. Eisenberg, S. Morford. 2023. Fire exclusion, pyrogenic carbon, and ecosystem function: What have we lost? Oral. Annual Meetings of the Ecological Society of America
- DeLuca, T.H. 2023. Forestry at OSU: Sustainability and Resilience in a Changing World. Annual Meetings of the Association of Consulting Foresters. Eugene, OR (Invited)
- DeLuca, T.H. 2023. On Being a Forest Soil Scientist. 14<sup>th</sup> North American Forest Soils Conference. Eugene, OR (Invited)