

2026 Presenter Publications

Topic	Presenter	Relevant Papers
Spread and Distribution in North America	Josef Gorres	Chang, C.H., Johnston, M.R., Görres, J.H., Dávalos, A., McHugh, D. and Szlavecz, K., 2018. Co-invasion of Asian earthworms, <i>Metaphire hilgendorfi</i>, <i>Amyntas agrestis</i> and <i>Amyntas tokioensis</i> in the USA. <i>Biological Invasions</i>, 20(4), pp.843-848. Nouri-Aiin, M., Schall, J.J., Keough, C.A., Wen, Y. and Görres, J.H., 2021. Identifying the unidentifiable: a multiplex protocol for the diagnosis of invasive pheretimoid earthworm species, verified by morphological and barcode identification. <i>Applied Soil Ecology</i>, 161, p.103822. Görres, J.H., Bellitürk, K. and Melnichuk, R.D., 2016. Temperature and moisture variables affecting the earthworm of genus <i>Amyntas</i> Kinberg, 1867 (Oligochaeta: Megascolecidae) in a hardwood forest in the Champlain Valley, Vermont, USA. <i>Applied Soil Ecology</i>, 104, pp.111-115. Richardson, J.B., Görres, J.H. and Sizmur, T., 2020. Synthesis of earthworm trace metal uptake and bioaccumulation data: Role of soil concentration, earthworm ecophysiology, and experimental design. <i>Environmental Pollution</i>, 263, p.114126. Simon, J., Buchholz, E., Pessoa, H. P., Yoo, K., Görres, J., Nouri-Aiin, M., & Miller, B. (2025). The Potential of Chemical and Biological Management Options for Controlling Jumping Worms (<i>Amyntas</i> spp.) in Container Nursery Production. <i>HortTechnology</i>, 35(5), 802-809 Moore, J. D., Görres, J. H., & Reynolds, J. W. (2018). Exotic Asian pheretimoid earthworms (<i>Amyntas</i> spp. and <i>Metaphire</i> spp.): Potential for colonisation of south-eastern Canada and effects on forest ecosystems. <i>Environmental Reviews</i>, 26(2), 113-120.
	Erin Cameron	Cameron, E. K., Bayne, E. M., & Clapperton, M. J. (2007). Human-facilitated invasion of exotic earthworms into northern boreal forests. <i>Ecoscience</i>, 14(4), 482-490. Cameron, E.K., Shaw, C.H., Bayne, E.M., Kurz, W.A. and Kull, S.J., 2015. Modelling interacting effects of earthworms and wildfire on forest floor carbon storage in the boreal forest. <i>Soil Biology and Biochemistry</i>, 85, pp.189-196 Chang, C. H., Bartz, M. L., Brown, G., Callaham Jr, M. A., Cameron, E. K., Dávalos, A., ... & Szlavecz, K. (2020). The second wave of earthworm invasions in North America: biology, environmental impacts, management and control of invasive jumping worms. <i>Biological Invasions</i>, 23(11), 3291-3322. Bennett, S., Phillips, H. R., Dalziel, A. C., Manzer, L. R., & Cameron, E. K. (2024). Testing the impacts of invasive jumping worms at their northern range limit. <i>European Journal of Soil Biology</i>, 120, 103590.
Invasion Outside North America	Marta Novo	Novo, M., Cunha, L., Maceda-Veiga, A., Talavera, J.A., Hodson, M.E., Spurgeon, D., Bruford, M.W., Morgan, A.J. and Kille, P., 2015. Multiple introductions and environmental factors affecting the establishment of invasive species on a volcanic island. <i>Soil Biology and Biochemistry</i>, 85, pp.89-100. Talavera, J. A., Cunha, L., Arévalo, J. R., Talavera, I. P., Kille, P., & Novo, M. (2020). Anthropogenic disturbance and environmental factors drive the diversity and distribution of earthworms in São Miguel Island (Azores, Portugal). <i>Applied Soil Ecology</i>, 145, 103301.
Identification by Morphology	Bruce Snyder	Chang, C.H., Snyder, B.A. and Szlavecz, K., 2016. Asian pheretimoid earthworms in North America north of Mexico: an illustrated key to the genera <i>Amyntas</i>. <i>Zootaxa</i>, 4179(3), pp.495-529. Blackmon, J. H., Taylor, M. K., Carrera-Martínez, R., Snyder, B. A., & Callaham, M. A. (2019). Temperature affects hatching success of cocoons in the invasive Asian earthworm <i>Amyntas agrestis</i> from the Southern Appalachians. <i>Southeastern Naturalist</i>, 18(2), 270-280. Callaham Jr, M. A., Snyder, B. A., James, S. W., & Oberg, E. T. (2016). Evidence for ongoing introduction of non-native earthworms in the Washington, DC metropolitan area. <i>Biological Invasions</i>, 18(2), 270-280.

		<i>invasions</i> , 18(11), 3133-3136.
Ecological Impacts - Erosion	Rebecca Pinder	Pinder, R. A., Groffman, P. M., & Robinson, G. (2008, August). PS 25-109: Streamside interactions among salamanders, earthworms, and soil nitrogen cycle processes. In <i>The 93rd ESA Annual Meeting</i> .
Ecological Impacts - Litter Communities	Tim McCay	Homan, C., Beier, C., McCay, T., & Lawrence, G. (2016). Application of lime (CaCO₃) to promote forest recovery from severe acidification increases potential for earthworm invasion. <i>Forest ecology and management</i>, 368, 39-44. McCay, T. S., & Scull, P. (2019). Invasive lumbricid earthworms in northeastern North American forests and consequences for leaf-litter fauna. <i>Biological Invasions</i>, 21(6), 2081-2093. McCay, T.S., Pinder, R.A., Alvarado, E. and Hanson, W.C., 2017. Distribution and habitat of the endemic earthworm <i>Eisenoides lonnbergi</i> (Michaelsen) in the northeastern United States. <i>Northeastern Naturalist</i>, 24(3), pp.239-248.
Ecological Impacts - Plant Communities	Annise Dobson	Dobson, A.M., Blossey, B. and Richardson, J.B., 2017. Invasive earthworms change nutrient availability and by forest understory plants. <i>Plant and Soil</i>, 421(1), pp.175-190. Bowe, A., Dobson, A., & Blossey, B. (2020). Impacts of invasive earthworms and deer on native ferns in for northeastern North America. <i>Biological Invasions</i>, 22(4), 1431-1445. Johnson, D. M., Gale, K. M., Dobson, & McCay, T. S. (2021). Public reporting and perception of invasive Pheretimid “jumping worms” in the northeastern United States. <i>Northeastern Naturalist</i>, 28(3), 383-396. Dobson, A., & Blossey, B. (2015). Earthworm invasion, white-tailed deer and seedling establishment in dec forests of north-eastern North America. <i>Journal of Ecology</i>, 103(1), 153-164. Dobson, A., Richardson, J., & Blossey, B. (2020). Effects of earthworms and white-tailed deer on roots, arb mycorrhizae, and forest seedling performance. <i>Ecology</i>, 101(1), e02903. Chang, C. H., Bartz, M. L., Brown, G., Callaham Jr, M. A., Cameron, E. K., Dávalos, A., ... & Szlavecz, K. The second wave of earthworm invasions in North America: biology, environmental impacts, management and control of invasive jumping worms. <i>Biological Invasions</i>, 23(11), 3291-3322. Johnson, D.M., Gale, K.M., Dobson, A.M. and McCay, T.S., 2021. Public reporting and perception of invasive Pheretimid “jumping worms” in the northeastern United States. <i>Northeastern Naturalist</i>, 28(3), pp.383-396
	Andrea Dávalos	Frelich, L.E., Blossey, B., Cameron, E.K., Dávalos, A., Eisenhauer, N., Fahey, T., Ferlian, O., Groffman, P.M., Larson, E., Loss, S.R. and Maerz, J.C., 2019. Side-swiped: ecological cascades emanating from earthworm invasions. <i>Frontiers in Ecology and the Environment</i>, 17(9), pp.502-510. Dávalos, A., Nuzzo, V. and Blossey, B., 2015. Single and interactive effects of deer and earthworms on non-native plants. <i>Forest Ecology and Management</i>, 351, pp.28-35. Chang, C. H., Bartz, M. L., Brown, G., Callaham Jr, M. A., Cameron, E. K., Dávalos, A., ... & Szlavecz, K. (2021). The second wave of earthworm invasions in North America: biology, environmental impacts, management and control of invasive jumping worms. <i>Biological Invasions</i>, 23(11), 3291-3322.
	Brad Herrick	Moore, J. D., Görres, J. H., & Reynolds, J. W. (2018). Exotic Asian pheretimid earthworms (<i>Amyntas</i> spp., <i>Metaphire</i> spp.): Potential for colonisation of south-eastern Canada and effects on forest ecosystems. <i>Environmental Reviews</i>, 26(2), 113-120. West, J. R., Herrick, B. M., & Whitman, T. (2024). Earthworm co-invasion by <i>Amyntas tokioensis</i> and <i>Amyntas agrestis</i> affects soil microaggregate bacterial communities. <i>Applied Soil Ecology</i>, 195, 105224. Richardson, J.B., Johnston, M.R. and Herrick, B.M., 2022. Invasive earthworms <i>Amyntas tokioensis</i> and <i>Amyntas agrestis</i> alter macronutrients (Ca, Mg, K, P) in field and laboratory forest soils.

		Pedobiologia-Journal of Soil Ecology, 91(92), p.150804. Laushman, K.M., Hotchkiss, S.C. and Herrick, B.M., 2018. Tracking an invasion: community changes in hardwood forests following the arrival of <i>Amyntas agrestis</i> and <i>Amyntas tokioensis</i> in Wisconsin. <i>Biological Invasions</i>, 20(7), pp.1671-1685. Johnston, M.R. and Herrick, B.M., 2019. Cocoon heat tolerance of pheretimoid earthworms <i>Amyntas tokioensis</i> and <i>Amyntas agrestis</i>. <i>The American Midland Naturalist</i>, 181(2), pp.299-309. Ziter, C. D., Herrick, B. M., Johnston, M. R., & Turner, M. G. (2021). Ready, set, go: Community science field campaign reveals habitat preferences of nonnative Asian earthworms in an urban landscape. <i>BioScience</i>, 71(3), 280-291.
Ecological Impacts - Microbial Community	Katalin Szlavecz	Chang, C.H., Johnston, M.R., Görres, J.H., Dávalos, A., McHugh, D. and Szlavecz, K., 2018. Co-invasion of three Asian earthworms, <i>Metaphire hilgendorfi</i>, <i>Amyntas agrestis</i> and <i>Amyntas tokioensis</i> in the USA. <i>Biological invasions</i>, 20(4), pp.843-848. Chang, C.H., Snyder, B.A. and Szlavecz, K., 2016. Asian pheretimoid earthworms in North America north of Mexico: an illustrated key to the genera <i>Amyntas</i>. <i>Zootaxa</i>, 4179(3), pp.495-529. Szlavecz, K., Placella, S. A., Pouyat, R. V., Groffman, P. M., Csuzdi, C., & Yesilonis, I. (2006). Invasive earthworm species and nitrogen cycling in remnant forest patches. <i>Applied Soil Ecology</i>, 32(1), 54-62. Chang, C. H., Bartz, M. L., Brown, G., Callahan Jr, M. A., Cameron, E. K., Dávalos, A., ... & Szlavecz, K. (2021). The second wave of earthworm invasions in North America: biology, environmental impacts, management and control of invasive jumping worms. <i>Biological Invasions</i>, 23(11), 3291-3322.
Economic Impact	Josef Gorres	Simon, J., Buchholz, E., Pessoa, H. P., Yoo, K., Görres, J., Nouri-Aiin, M., & Miller, B. (2025). The Potential of Chemical and Biological Management Options for Controlling Jumping Worms (<i>Amyntas</i> spp.) in Container Nursery Production. <i>HortTechnology</i> , 35(5), 802-809
Management and Regulatory Status	Vera Krischik + Laura van Riper	
	Vera Krischik + Garima Gupta	
Participatory Science	Angela Gupta + Hana Kim	Weber, M. M., Gupta, A., Phelps, N. B., Jensen, D. A., & Venette, R. C. (2024). Invasive species common names: Working towards more inclusive invasive species education and outreach. <i>The Journal of Extension</i> , 62(3).
	Erin Buchholz	Simon, J., Buchholz, E., Pessoa, H. P., Yoo, K., Görres, J., Nouri-Aiin, M., & Miller, B. (2025). The Potential of Chemical and Biological Management Options for Controlling Jumping Worms (<i>Amyntas</i> spp.) in Container Nursery Production. <i>HortTechnology</i> , 35(5), 802-809
2025 Maine Workshop Outcomes	Hillary Peterson Brittany Schappach Gary Fish	

