

ORAL SESSIONS SCHEDULE

Session One – Kittatiny Hall A

AQUATIC ECOLOGY

1. 10:30-10:45

Shading by an invasive macrophyte affects native isoetid growth and sediment chemistry

URBAN, R.A.* , J.E. TITUS, and W.X. ZHU

Dept. of Biological Sciences, Binghamton University, Binghamton NY

2. 10:45-11:00

Impact of the invasive Asian shore crab (*Hemigrapsus sanguineus*) on two other Northeastern intertidal crabs: the invasive European green crab (*Carcinus maenus*) and the native mud crab (*Panopeus herbstii*)

McFARLANE, W.J.* (1), M. POZZUTO (1), and B. JENSEN (2)

(1) Dept. of Biology, Manhattanville College, Purchase NY

(2) Dept. of Physical and Natural Sciences, College of Saint Rose, Albany NY

3. 11:00-11:15

Developmental changes resulting from exposure to trace amounts of pesticides in the early life stages of *Danio rerio*

YEUNG-CHEUNG, A., N. TODD*, and C. ENCARNACION

Dept. of Biology, Manhattanville College, Purchase NY

4. 11:15-11:30

Temporal molluscan community structure and diversity found in an urban New Jersey pond

CHAPMAN, E.J.* , and R.S. PREZANT

Dept. of Biology and Molecular Biology, Montclair State University, Montclair NJ

5. 11:30-11:45

Breakdown of leaf litter in urban and forested streams: Altered hydrology and landscape position

BELT, K.* (1), C. SWAN (2), and R. POUYAT (1,2)

(1) USDA Forest Service/UMBC/BES LTER

(2) Dept. of Geography and Environmental Systems, UMBC

6. 11:45-12:00

The role of salinity in the disease resistance of eelgrass to the wasting disease pathogen *Labyrinthula zosterae*

McKONE, K. L.* , J.M. BENSON, L.C. HOFMANN, and C.E. TANNER

St. Mary's College of Maryland, St. Mary's City, MD

Session One – Kittatiny Hall B

ANIMAL ECOLOGY

7. 10:30 – 10:45

Termination of paternal care in giant waterbugs, *Belostoma flumineum* Say: The effects of age and season

KIGHT, S.* and G. COFFEY

Dept. of Biology and Molecular Biology, Montclair State University, Montclair NJ

8. 10:45 – 11:00

Predatory effect of *Notonecta irrorata* (Hemiptera: Notonectidae) on larval amphibian assemblages

CHRIPCZUK, J.* and T.J. MARET

Dept. of Biology, Shippensburg University, Shippensburg PA

9. 11:00 – 11:15

Urban bumblebees forage within localized habitat

COX, K.M.* , and G.A. LANGELLOTTO

Dept. of Biological Sciences, Fordham University, Bronx NY

10. 11:15 – 11:30

The effects of vegetation composition on avian nest site utilization and success in Connecticut tidal marshes

SCHAUMBURG, K.* (1), G.A. LANGELLOTTO (1), and W. M. GIULIANO (2)

(1) Louis Calder Center, Dept. of Biological Sciences, Fordham University, Bronx NY

(2) Dept. of Wildlife Ecology and Conservation, Institute of Food and Agricultural Sciences, University of Florida, Gainesville FL

11. 11:30 – 11:45

An explanation of patterns of breeding bird species richness and density following clearcutting in northeastern U.S. forests

KELLER, J.* (1,2), M. RICHMOND (1), and C. SMITH (1)

(1) New York Cooperative Fish and Wildlife Research Unit, Dept. of Natural Resources, Cornell University, Ithaca NY

(2) Habitat by Design, 74 Stagecoach Rd., Pipersville PA

12. 11:45-12:00

Physical and biological tradeoffs along a depth gradient in *Cancer borealis*

KREDIET, C.* (1,2), and M. DONAHUE (2,3)

(1) Dept. of Biology, Drew University, Madison NJ

(2) Shoals Marine Laboratory, Cornell University, Ithaca NY

(3) Dept. of Biological Sciences, Humboldt State University, Arcata CA

Session Two – Kittatiny Hall A

BIOGEOCHEMISTRY/CLIMATE CHANGE

13. 13:45 – 14:00

Rapid Changes in Soil Carbon and Organic Matter at the Sikfokut International Long-Term Ecological Research Site, northeast Hungary

NAGEL, L.* (1), R.D. BOWDEN (1), J.A. TÓTH (2), and K. LAJTHA (3)
(1) Dept. of Environmental Science, Allegheny College, Meadville PA
(2) University of Debrecen, Dept. of Ecology, H-4032 Debrecen, Egyetem tér 1, Hungary
(3) Dept. of Botany and Plant Pathology, Oregon State University, Corvallis OR

14. 14:00 – 14:15

Tree species effect on soil nitrogen mineralization and nitrification in a plantation site in south-central New York

ZHU, W.-X.*, W. WANG, and N. HANTSCH
Dept. of Biological Sciences, State University of New York, Binghamton NY

15. 14:15 – 14:30

Forest fire as a unifying soil weathering agent in differing ecosystems

REYNARD, J.R.* (1), G.A. POPE (1), and W.F. BIEN (2)
(1) Dept. of Earth and Environmental Studies, Montclair State University, Montclair NJ
(2) Dept. of Bioscience and Biotechnology, Drexel University, Philadelphia PA

16. 14:30 – 14:45

Futuristic disease: the effect of atmospheric change on foliar soybean pathosystems

DeGENNARO, M.* (1), E. DeLUCIA (2), O. DERMODY (2), D. EASTBURN (3), and A. McELRONE (1)
(1) Dept. of Biology, Saint Joseph's University, Philadelphia PA
(2) Dept. of Plant Biology, University of Illinois, Urbana IL
(3) Dept. of Crop Science, University of Illinois, Urbana IL

17. 14:45 – 15:00

Understanding the ecological impacts of climate change in the Mid-Atlantic Region of the United States

BOZZOLASCO, A.*, and J. TAYLOR
Dept. of Earth and Environmental Studies, Montclair State University, Montclair, NJ

Session Two – Kittatiny Hall B

PLANT ECOLOGY/PHYSIOLOGY

18. 13:45 – 14:00

Leaf movement and leaf damage in *Cercis canadensis*: Do leaves act differently in the sun and shade?

SMITH, A., and A. B. GRIFFITH*
Dept. of Biological Sciences, University of Mary Washington, Fredericksburg VA

19. 14:00 – 14:15

Quantifying the contribution of aquaporins to overall water transport in deep roots accessed via caves

BICHLER, J.*, M.D. KUCZYNSKI, and A.J. McELRONE
Dept. of Biology, Saint Joseph's University, Philadelphia PA

20. 14:15 – 14:30

Reproductive adaptations of chestnut oak (*Quercus prinus*) to herbivory and cache predation

SCOW, S.*, and G. WINGERT
Dept. of Environmental Studies, Dickinson College, Carlisle PA

21. 14:30 – 14:45

Canopy structure differences in two mixed-deciduous forests subject to different intensities of deer herbivory

HANIFIN, R.C.*, and B.S. PEDERSEN
Dickinson College, Carlisle PA

22. 14:45 – 15:00

Forest diversity on the Manhattanville College Campus: 100 years after Frederick Law Olmsted

TODD, N.*, and A. POLLOCK
Dept. of Biology, Manhattanville College, Purchase NY

POSTER SESSION SCHEDULE – Long House

Animal Ecology

1. Observations on the breeding biology, nest characteristics, and reproductive success of arctic warblers (*Phylloscopus borealis kennicotti*) in central Alaska

EWEN-CAMPEN, B.*(1), J. HAGELIN (1), and S. SHARBAUGH (2)
(1) Dept. of Biology, Swarthmore College, Swarthmore PA
(2) Alaska Bird Observatory, Fairbanks AK

2. Effects of herbivory by a tree squirrel on seed size, quality, dispersal and establishment: Are tree squirrels agro-farming?

FUESNER, M.*, T. STEELE, E. MILLER, M. NUGYEN, A. MCEUEN, and M.A. STEELE
Biology Dept., Wilkes University, Wilkes-Barre PA

Plant/Animal Interactions

3. Predator-satiation and masting in oaks: The impact of acorn abundance on insect infestation and oak establishment

GRAMMOND, M.*, S. MARINO, and M.A. STEELE
Biology Dept., Wilkes University, Wilkes-Barre PA

4. Interactions between small mammals, oaks, and weevils: Are infested seeds dispersed?

BAZARSKY, A.*(1), S. TOLERICO (1), C. YURKON (1), M. STEELE (1), S. MARINO (1), J. MOORE (2), and R. SWIHART (3)
(1) Biology Dept., Wilkes University, Wilkes-Barre PA
(2) Duke University Marine Laboratory, Beaufort NC
(3) Dept. of Forestry and Natural Resources, Purdue University, West Lafayette IN

5. Extrafloral nectaries decrease insect herbivory in *Prunus* species

LAITEM, M.*, C. PULICE, and A. PACKER
Dept. of Biology, Susquehanna University, Selinsgrove PA

6. How and when does deer browsing affect forest regeneration? Tracking seedling growth and survival rates in central PA

BONNEAU, L.*, and C. LOEFFLER
Biology Dept., Dickinson College, Carlisle PA

7. Deer herbivory and plant species diversity in two forest understories in Perry County, PA

CARTER, C.*, and C. LOEFFLER
Biology Dept., Dickinson College, Carlisle PA

8. The impact of white-tailed deer on tree regeneration and plant invasions in an eastern North American forest fragment

FETY, L. * (1), K. KEELEY* (1), B. LANTZ* (1), R. COLLINS (2), R.A. MERZ (1), and J.L. MACHADO (1)
(1) Dept. of Biology, Swarthmore College, Swarthmore PA
(2) Dept. of Botany, University of Wisconsin, Madison WI

Aquatic Ecology

9. Benthic macro-invertebrates as bio-indicators of stream quality in a rural/urban transition zone in Monocacy Creek, Northampton County, Pennsylvania

JEDINY, J.*, and F. KUSERK
Dept. of Biology, Moravian College, Bethlehem PA

10. Ecological correlates of rusty crayfish presence and macro-invertebrate assemblages in a stream system in south-central Pennsylvania

SNYDER, E. *, and T. J. MARET
Dept. of Biology, Shippensburg University, Shippensburg PA

11. The effect of consuming different leaf types on growth and survival of larval caddisflies, *Limnephilus indivisus*

EVANS, C.A. *, and T.J. MARET
Dept. of Biology, Shippensburg University, Shippensburg PA

12. The effects of density, protein availability, and size variation on cannibalism, survival, and growth in larvae of the caddisfly *Ptilostomis postica*

BERKSTRESSER, S. *, S. P. JONES. *, and T. J. MARET
Dept. of Biology, Shippensburg University, Shippensburg PA

13. Relative contributions of stocked trout to fish-eating birds inhabiting streams of south-central Pennsylvania

JERIN, J. *, T. BRITT, Y. AMEDUME, and T.M. HURD
Dept. of Biology, Shippensburg University, Shippensburg PA

14. Chemical and biological assessment of an urban, estuarine marsh in northeastern New Jersey, USA

BARRETT, K.R.* (1), and M.A. McBRIEN (2)
(1) Passaic River Institute, Montclair State University, Montclair NJ
(2) The Louis Berger Group, Inc., 30A Vreeland Road, Florham Park NJ

15. Stream chemistry along an urban to rural watershed gradient

HANTSCH, N. *, W. ZHU, and J. BOHNER
Dept. of Biological Sciences, Binghamton University, Binghamton NY

16. Determination of biological, hydrological and chemical reference sites in a New Jersey Pinelands watershed

CROMARTIE, W. (1), L. KELTOS (1), A. DWYER (1), K. MOTT (1), and F. AKERS (2)

(1) NAMS, Richard Stockton College, Pomona NJ

(2) Great Egg Harbor Watershed Association, P. O. Box 109, Newtonville NJ

Soil and Microbial Ecology

17. The inhibitory effect of bioherbicide glufosinate on *Pseudomonas putida* in nutrient broth and campus soil

YEUNG-CHEUNG, A.*, and W. EILBACHER

Dept. of Biology, Manhattanville College, Purchase NY

18. Effects of soil temperature, moisture, organic matter, and volume on respiration rates in mature hemlock and successional hardwood forests in central Massachusetts

STROUSE, S.*, and T. SIPE

Dept of Biology, Franklin & Marshall College, Lancaster PA

19. Soil microbial community and enzyme activities responding to the leaf litter decomposition of native and invasive plants

YU, S.*, K. ELGERSMA, T. VOR, and J.G. EHRENFELD

Dept. of Ecology, Evolution, and Natural Resources, Rutgers, The State University of New Jersey, New Brunswick NJ

20. Differentiation of soil pathogens in agricultural and old field communities

RICHTER, K.E.*, and A. PACKER

Dept. of Biology, Susquehanna University, Selinsgrove PA

21. Patterns and controls of asymbiotic nitrogen fixation in a tropical lowland forest

STRONG, A.* (1), J.-L. MACHADO (1), and A. BARRON (2)

(1) Dept. of Biology, Swarthmore College, Swarthmore PA

(2) Dept. of Ecology and Evolutionary Biology, Princeton University, Princeton NJ

Invasive Species

22. Effects of soil amendments on the nitrogen dynamics of Japanese barberry (*Berberis thunbergii*) and Japanese stiltgrass (*Microstegium vimineum*) in New Jersey forests

ROSS, K.A.* (1), J.G. EHRENFELD (1), and M.V. PATEL (2)

(1) Dept. of Ecology, Evolution, and Natural Resources, Rutgers, The State University of New Jersey, New Brunswick NJ

(2) Dept. of Botany, University of Vermont, Burlington VT

23. The presence of Japanese stiltgrass (*Microstegium vimineum*) as related to

intermittent hydrology and forest age

SCHRAMM, J.W.

Dept. of Ecology, Evolution, and Natural Resources, Rutgers, The State University of New Jersey, New Brunswick NJ

24. Comparative demography of *Acer saccharum* and its invasive congener *A. platanoides* in the Drew University Forest Preserve

HAZURI, R., and S. WEBB

Biology Dept., Drew University, Madison NJ

25. Testing the effectiveness of various methods to control the growth of non-indigenous Japanese knotweed (*Fallopia japonica*)

PERRY, M.*, K. VANNICE, M. DEFILLIPO, and J. MACHADO

Dept. of Biology, Swarthmore College, Swarthmore PA

Plant Physiology/Ecology

27. Effects of sand burial on the coastal dune grass *Ammophila breviligulata*

PELOSI, M.*, and M.S. PEEK

Dept. of Biology, William Paterson University, Wayne NJ

28. Long-term change in vegetation composition and biomass in a Central European oak forest at the Sikfokut International Long-Term Ecological Research (ILTER) Site, Hungary

BOWDEN, R. D. (1), L. NAGEL* (1), Z. KOTROCZÓ (2), Z.

KRAKOMPERGER (2), M. PAPP (3), AND J.A. TÓTH (2)

(1) Allegheny College, Dept. of Environmental Science, Meadville PA

(2) University of Debrecen, Dept. of Ecology, H-4032 Debrecen, Egyetem tér 1, Hungary

(3) University of Debrecen, Dept. of Botany, H-4010 Debrecen, P.O. Box 14, Hungary

29. Microtopographic influence on vegetation in mitigation wetlands in Virginia

MOSER, K.* (1), C. AHN (1), and G. NOE (2)

(1) Dept. of Environmental Science & Policy, George Mason University, Fairfax VA

(2) U.S. Geological Survey, Reston VA

30. The effects of the herbaceous stratum on nearground windspeed and CO₂ profiles in a successional hardwood forest

LOGOTHETIS, K.*, and T. SIPE

Dept of Biology, Franklin & Marshall College, Lancaster PA

31. Combined effects of carbon dioxide and sunfleck characteristics on photosynthetic gas exchange and daily carbon assimilation by *Aralia nudicaulis* and *Smilacina racemosa* in the forest understory

WALSH, C., and T. SIPE*

Dept of Biology, Franklin & Marshall College, Lancaster PA

32. Leaf life span and effects of leaf age on photosynthetic rates in shade- vs. gap-grown seedlings of five neotropical shade-tolerant trees

BRUNKARD, J.* (1), M. PERRY (1), J.L. MACHADO (1), C. STEFANESCU (2), and K. KITAJIMA (2,3)

(1) Swarthmore College, Swarthmore PA

(2) University of Florida, Gainesville FL

(3) Smithsonian Tropical Research Institute, Panama

33. Effects of low water potentials on the growth and structure of corn roots

RODDY, A.B.* (1), and S.D. WULLSCHLEGER (2)

(1) Dept. of Biology, Swarthmore College, Swarthmore PA

(2) Environmental Sciences Division, Oak Ridge National Laboratory, Oak Ridge, TN

34. Effects of soil contamination on gene regulation in *Arabidopsis thaliana*

MAGRINI, K.*, J. SPOTILA, H. AVERY, and S. ANANDAN

Dept. of Bioscience, Drexel University, Philadelphia PA

35. World's oldest living things? Investigating the extreme age of box huckleberry (*Gaylussacia brachycera*) clones in Pennsylvania

PERRY, M.*, and J. WRIGHT

Dept. of Biology, Dickinson College, Carlisle PA

36. Online polyclave key for the plants from the Kirby Park Natural Area, Wilkes-Barre, PA

KLEMOV, K. (1), B. DIBBLE* (1), M. JOHNSTON (1), T. ORELEIN (1), J. THOMPSON (1), and M. ZUKOSKI (2)

(1) Biology Dept., Wilkes University, Wilkes-Barre PA

(2) Dept. of Mathematics and Computer Science, Wilkes University, Wilkes-Barre PA

Biodiversity

37. Site variation in hymenopteran biodiversity in urban coniferous forest habitats

KUNTZ, B.*, J. MOCZERNIUK, K. RAYMONDI and S. CODELLA

Dept. of Biological Sciences, Kean University, Union NJ

38. An integrative approach to community assembly in the cactus-yeast model system

SCHMEDICKE, R.*; and W.T. STARMER

Dept. of Biology, Syracuse University, Syracuse NY

39. Mid-Atlantic meltdown and the loss of diversity: How to recognize them

MEYER, E R.

Dept. of Biology, Loyola College, Baltimore MD