



Mid-Atlantic Ecology Conference

Urban Landscapes

March 12th – 13th, 2005

University of Maryland – Baltimore County, MD

Conference Host: Center for Urban Environmental Research and Education

MEETING SCHEDULE

Saturday March 12, 2005

- 8:00-9:00 Refreshments; Registration; Poster set-up
9:00-9:15 Introductions and Welcome
9:15-10:15 Plenary Talk: Charles Nilon, Associate Professor, University of Missouri "Ecology of Nearby Nature" (Ballroom).
10:15-10:30 Break
10:30-12:00 Oral Session 1 (Rooms 310 and 312)
12:00-1:45 Lunch and Poster Display (University Center Ballroom)
1:45-2:30 Career Panel for students, and Chapter Business Meeting for everybody (Ballroom).
2:30-3:30 Oral session 2 (Rooms 310 and 312)
3:30-4:00 Break
4:00-4:45 Oral session 3 (Rooms 310 and 312)
5:30-7:00 Dinner and Evening talk: Laura Hungerford, DVM, MPH, PhD, Professor and Interim Head, University of Maryland. "Epidemiology and Ecology: Synthesis in Method and Meaning" (Ballroom)

Sunday March 13, 2005

- 8:30-4:00 Field trip to Baltimore Urban Ecosystem LTER sites.
Meet at the Technology Research Center.

ORAL SESSIONS SCHEDULE

SESSION ONE-ROOM 310

Urban Ecology: Human Impacts and Management

1. 10:30-10:45

Land-use effects on amphibian use of storm water retention ponds and larval metal concentrations

SIMON, J., J. SNODGRASS, and R. CASEY.

2. 10:45-11:00

Diversity of the Unionidae in the West Branch Rocky River, Ohio

RUNDO, L. and R. KREBS.

3. 11:00-11:15

Incorporation of storm sewer networks in urban watershed delineation

BORNEMANN, J.

4. 11:15-11:30

Impact of 10 years of the MD Forest Conservation Act on Maryland's Forest Cover

ROSSLER HONECZY, M.

5. 11:30-11:45

Humans as sociocultural ecosystem engineers of urban landscapes: a metaphor for integrating the social sciences and ecology

BYRNE, L.B.

6. 11:45-12:00

Establishing Credibility: Building partnerships for urban watershed management in Fredericton NB, Canada

MERRILL, S.

SESSION TWO-ROOM 310

Aquatic Ecology

7. 2:30-2:45

Enhanced swimming performance of black nose dace from urban streams

NELSON, J.A. and P. S. GOTWALT.

8. 2:45-3:00

Lipid cycling in black nose dace (*Rhinichthys atratulus*) populations along a rural-urban gradient

RICHARDSON, A. L., B. TRUSHEL, and J.W. SNODGRASS.

9. 3:00-3:15

Variation in Stream Fish Sexual Dimorphism Across a Rural-Urban Gradient

TRUSHEL, B., A. RICHARDSON, and J. SNODGRASS.

10. 3:15-3:30

Implications of transgenic corn cultivation on the ecology of agricultural streams

VAN-TULL, L. and C. SWAN.

SESSION THREE-ROOM 310

Population Ecology

11. 4:00-4:15

The differential use of ray flowers as visual attractants or landing structures by pollinator species

STEIN, S.

12. 4:15-4:30

Population Diversity and Dispersal of Two Species of Stoneflies (Order Plecoptera) Within Four Watersheds of Northeastern Ohio.

YASICK, A., J. WOLIN, and R. KREBS.

13. 4:30-4:45

Fragmentation of riparian amphibian distributions by urban sprawl in Maryland

SOUTHERLAND, M. T. and S. A. STRANKO

SESSION ONE-ROOM 312

Urban Ecology: Assessment of Impacts

14. 10:30-10:45

Where are the fauna and the forests of the Mid-Atlantic suburbs sustainable and where are they not? Finding the answers involves solvable detection problems

MEYER, E R.

15. 10:45-11:00

Methodology and Results of an Ecological Assessment of an Urban Natural Area in Northern Manhattan

WENSKUS, T. and C. YACKULIC.

16. 11:00-11:15

Measuring long-term ecological change in urban and suburban landscapes

ELLIS, E.C.

17. 11:15-11:30

Ecological Risk Assessment of Contaminated Sites in Urban Areas

STUMP, J.

18. 11:30-11:45

Accessing Long Term Ecological Research Program climate and hydrology data

HEISLER, G., J. WALSH, and G. FISHER.

19. 11:45-12:00

Resource land loss and forest vulnerability in the Chesapeake Bay watershed

JANTZ, C., S. GOETZ, P. JANTZ and B. MELCHIOR.

SESSION TWO-ROOM 312

Nutrients and Pollution

20. 2:30-2:45

The influence of hyporheic exchange on primary productivity and phosphorous uptake in urbanizing streams

RYAN, R. J., A. I. PACKMAN AND S. S. KILHAM.

21. 2:45-3:00

Impact of land use on fecal coliform levels in surface waters of Fairfax County, VA

BUCHINO, J.

22. 3:00-3:15

Landscape Level Airborne Mercury Deposition in the Shenandoah Valley, VA

I: Detection of Non-random Patterns

ALLAK, A. and D. COCKING.

23. 3:15-3:30

Seasonal variation in non-point source nutrients and storm water run-off in an urban wetland

WOLIN, J.A., R. NIKIFOROW, and Y.S. AROCHO.

SESSION THREE-ROOM 312

Community Ecology

24. 4:00-4:15

Salamanders in forest-floor food webs: effects of size-selective predation on invertebrate communities

WALTON, B.M., S. STECKLER, D. TSATIRIS, and M. RIVERA-SOSTRE.

25. 4:15-4:30

Was American chestnut a dominant of eastern deciduous forest before European settlement?

BOUCHER, D.H. and M. REAMER.

26. 4:30-4:45

Effect of increasing CO₂ and temperature on species richness and productivity of agricultural weeds

GEORGE, K. and L. H. ZISKA.

POSTER SESSION SCHEDULE

A. Plant Physiology/Ecology

1. Comparative study of fruit predation and clonal incidence between an invasive and native *Rubus*

KILLIAN, M., A. INNIS, and D. WHIGHAM

2. The phenotypic plasticity of fluctuating asymmetry in two plant species, *Lythrum salicaria* and *Penthorum sedoides*

MILLIGAN, J.R. and T.K. MAL.

B. Physiology/Ecology

3. Effect of fish predation on ontogenetic metabolic scaling in the freshwater amphipod *Gammarus minus*.

LOMBARDI, S.A., E.M. BUTLER and D.S. GLAZIER.

4. Trophic ecology of salamanders within riparian habitats

LOCKHART, O.M. AND B.M. WALTON.

5. Circadian temperature patterns inside webs of the fall webworm, *Hyphantria cunea* (Lepidoptera: Arctiidae): importance of weather and directional orientation in tree canopies

REHNBERG, B.G.

C. Plant/Animal Interactions

6. Are overabundant deer in a Pennsylvania wildlife preserve eating all the tree seeds?

BARTON, J.A. and B.S. PEDERSEN.

D. Animal Behavior

7. Effects of cover objects and chemical cues of a specialist predator on the predator avoidance response of red-backed salamanders

MIKASH, N. and B.M. WALTON.

8. Spatial ecology of the timber rattlesnake at the Warren Grove Gunnery Range, Burlington County, New Jersey

SMITH, R. M., W. F. BIEN., AND J. R. SPOTILA.

E. Aquatic Ecology

9. Hyporheic exchange: the influence of aquifer heterogeneity and stream morphology

MATOS, J., C. WELTY, and A. I. PACKMAN.

10. Macro-invertebrates, land use and chemistry in an urbanizing watershed

CROMARTIE, J., J. AKERS, J. COOK, D. CUMMINGS, J. LUCKENBUSH, and G. MILLAR.

11. Using RHESSys eco-hydrological model to examine the affect of riparian buffer zone width and placement on nitrogen loading in the Coweeta LTER

SMALL, M., L. BAND, and T. HWANG.

F. Bio-Geochemistry

12. Soil erosion rates measured on the Little Conestoga Creek Watershed, Pennsylvania

RITCHIE, J.C., A.C. GELLIS, and W.S.L. BANKS.

G. Urban Ecology

13. The role of aquatic macrophytes and riparian vegetation in ecosystem health of the Cuyahoga River Watershed in Northeast Ohio

BALANSON, S., B.M. WALTON, J.A. WOLIN and T.K. MAL.

14. RNA analysis of the black nose dace (*Rhinichthys atratulus*): urban and rural populations

TALL, E. and G.GASPARICH.

15. Soil respiration contribution to urban carbon dynamics at Cub Hill in response to global change

HOLIFIELD, Q., J. L. HOM and M. PATTERSON.

16. Determination of spatial patterns of sediment storage and transport in Valley Creek, Valley Forge National Historical Park

FRALEY, L., A. MILLER, and C. WELTY.

17. The suburban landscape: patterns and processes in the soil

SZLAVECZ, K., R.P. POUYAT, I.YESILONIS, P.GROFFMAN and Q. HOLIFIELD.

18. Monitoring the subterranean urban realm: watershed 263 storm water sampling and flow measurement

TAYLORSON, A., K. T. BELT, R. V. POUYAT, W. P. STACK, M. CHERIGO, D. SCHINDLER, and J. ZHOU.

**19. Landscape level airborne mercury deposition in the Shenandoah Valley, VA
II: replication in time**

KELLEY, A., A. ALLAK, Z. LUMBI. and D. COCKING.

**20. Landscape level airborne mercury deposition in the Shenandoah Valley, VA
III: using inexpensive passive samplers for landscape level screening**

TEMPLE, S. and D. COCKING.

21. Relative impacts of urban development in the buffer zone and ridge area on stream nitrate loads

LIPSCOMB, M. and L. BAND.

H. Invasive Species

22. What makes invasions happen? Environmental Variation, Survival and Reproduction in *Alliaria petiolata*.

RODRIGUEZ R., R. MANN and L.A. HYATT.

23. Invasive terrestrial isopods and soil nutrient cycling

JUHASZOVA, K. and K.SZLAVECZ.

24. Positive feedback on *Ailanthus altissima*: a generalized response?

KLEINER, K.

25. The effect of four early-successional Pennsylvanian tree species on soil bacterial communities.

SMITH, G. and K. KLEINER.

I. Management/Applied Ecology

26. The association of beaver (*Castor canadensis*) with the presence of *Giardia* in a small reservoir

REEDY, L. K. and D. R. ORVOS.

27. A comparison of soil chemical characteristics: urban and rural gradients of Baltimore and New York, and cities of Baltimore and Budapest

YESILONIS, I., R. POUYAT, K. SZLAVECZ, AND J. RUSSELL-ANELLI.

28. The *Watershed 263* small headwater storm drains: restoration of an urban catchment's hydrology

BELT, K.T., R. V. POUYAT, W.P. STACK, P.M. GROFFMAN, and A. TAYLORSON-COLLINS.

29. Using model urban and suburban landscapes to determine non-point source pollution potential

WOLYNIAK, B.J. and G.K. EATON

J. Ecology Education

30. Success of the Maryland breeding bird atlas project at Cecil Community College

OLSEN, V.B., S. SCHADE, AND C. BRODO.

LIST OF ORAL PRESENTERS

NAME	SESSION#	TALK#	ROOM
ALLAK, A.	2	22	312
AROCHO, Y.S.	2	23	312
BORNEMANN, J.	1	3	310
BOUCHER, D.H.	3	25	312
BUCHINO, J.	2	21	312
BYRNE, L.B.	1	5	310
CASEY, R.	1	1	310
COCKING, D.	2	22	312
ELLIS, E.C.	1	16	312
FISHER, G.	1	18	312
GEORGE, K.	3	26	312
GOETZ, S.	1	19	312
GOTWALT, P.S.	2	7	310
HEISLER, G.	1	18	312
JANTZ, C.	1	19	312
JANTZ, P.	1	19	312
KILHAM, S.S.	2	20	312
KREBS, R.	1, 3	2, 12	310
MELCHIOR, B.	1	19	312
MERRILL, S.	1	6	310
MEYER, E R.	1	14	312
NELSON, J.A.	2	7	310
NIKIFOROW, R.	2	23	312
PACKMAN, A.I.	2	20	312
REAMER, M	3	25	312
RICHARDSON, A. L.	2	8, 9	310
RIVERA-SOSTRE, M.	3	24	312
ROSSLER HONECZY, M.	1	4	310
RUNDO, L.	1	2	310
RYAN, R. J.	2	20	312
SIMON, J.	1	1	310
SOUTHERLAND, M.T.	3	13	310
SNODGRASS, J.W.	1, 2	1, 8, 9	310
STECKLER, S.	3	24	312
STEIN, S	3	11	310
STRANKO, S.A.	3	13	310
STUMP, J.	1	17	312

SWAN, C.	2	10	310
TRUSHEL, B.	2	8,9	310
TSATIRIS, D.	3	24	312
VAN-TULL, L.	2	10	310
WALSH, J.	1	18	312
WALTON, B.M.	3	24	312
WENSKUS, T.	1	15	312
WOLIN, J.	2,3	23, 12	312,310
YACKULIC, C.	1	15	312
YASICK, A.	3	12	310
ZISKA, L.H.	3	26	312

LIST OF POSTER PRESENTERS

NAME	POSTER#
AKERS, J.	10
ALLAK, A.	19
BALANSON, S.	13
BAND, L.	11, 21
BANKS, W.S.L.	12
BARTON, J.A.	6
BELT, K.T.	18, 28
BIEN, W.F.	8
BRODO, C.	30
BUTLER, E.M.	3
CHERIGO, M.	18
COCKING, D.	19, 20
COOK, J.	10
CROMARTIE, J.	10
CUMMINGS, D.	10
EATON, G.K.	29
FRALEY, L.	16
GASPARICH, G.	14
GELLIS, A.C.	12
GLAZIER, D.S.	3
GROFFMAN, P.	17, 28
HOLIFIELD, Q.	15, 17
HOM, J.L.	15
HWANG, T.	11
HYATT, L.A.	22
INNIS, A.	1
JUHASZOVA, K.	23
KELLEY, A.	19
KILLIAN, M.	1
KLEINER, K.	24, 25
LIPSCOMB, M.	21
LOCKHART, O.M.	4

LOMBARDI, S.A.	3
LUCKENBUSH, J.	10
LUMBI, Z.	19
MAL, T.K.	2, 13
MANN, R.	22
MATOS, J.	9
MILLAR, G.	10
MILLER, A.	16
MILLIGAN, J.R.	2
MIKASH, N.	7
OLSEN, V.B.	30
ORVOS, D.R.	26
PACKMAN, A.I.	9
PATTERSON, M.	15
PEDERSEN, B.S.	6
POUYAT, R.P.	17, 18, 27, 28
REEDY, L. K.	26
REHNBERG, B.G.	5
RITCHIE, J.C.	12
RODRIGUEZ, R.	22
RUSSELL-ANELLI, J.	27
SCHADE, S.	30
SCHINDLER, D.	18
SMALL, M.	11
SMITH, G.	25
SMITH, R. M.	8
SPOTILA, J.R.	8
STACK, W.P.	18, 28
SZLAVECZ, K.	17, 23, 27
TALL, E.	14
TAYLORSON-COLLINS, A.	18, 28
TEMPLE, S.	20
WALTON, B.M.	4, 7, 13
WELTY, C.	9, 16
WHIGHAM, D.	1
WOLIN, J.A.	13
WOLYNIAK, B.J.	29
YESILONIS, I.	17, 27
ZHOU, J.	18