CURRICULUM VITAE

NAME J. Bruce Wallace DATE 2015

DEPARTMENT Entomology/Ecology

PRESENTRANK Professor Emeritus DATE 1977 TENURE YES

EFT: INSTRH ENT .20 INSTRH ECOL .05 DEPRES ENT .30 DEPRES ECOL .20 EXP. STA. 0.25

MEMBER OF GRADUATE FACULTY YES DATE APPOINTED 1968

EMPLOYMENT:

1995-2006	Department of Entomology and Institute of Ecology, University of Georgia, Athens, Georgia, home department Entomology
1993-1995	Institute of Ecology and Department of Entomology University of Georgia, Athens, Georgia. Professor, home department Ecology
1977-1993	Department of Entomology, University of Georgia, Athens, Georgia. Professor.
1980-	Guest Scientist - University of Lund, Sweden (7 mos) funded by Swedish Natural Science Foundation
1971-1977	Department of Entomology, University of Georgia, Athens, Georgia. Associate Professor.
1967-1971	Department of Entomology, University of Georgia, Athens, Georgia. Assistant Professor.
1964-1967	Department of Biology, Virginia Polytechnic Institute and State University, Blacksburg, Virginia. Graduate Research Assistant in Biology (toward Ph.D. in Entomology Dept.)
1963-1964	Department of Entomology, Virginia Polytechnic Institute and State University, Blacksburg, Virginia. Graduate Teaching Assistant.
1963	Tidewater Research Station, Virginia Polytechnic Institute and State University, Blacksburg, Virginia.
1961-1963	Department of Entomology, Virginia Polytechnic Institute and State University, Blacksburg, Virginia. Graduate Research Assistant.

ACADEMIC RECORD:

Clemson University	B.S.	1961
Virginia Polytechnic Institute and State University	M.S.	1963
Virginia Polytechnic Institute and State University	Ph.D.	1967

Research Areas:

Linkages between stream communities and terrestrial inputs Role of aquatic invertebrates in stream ecosystem processes Effects of disturbance on stream ecosystems Recovery of stream ecosystems from disturbance Biotic Indices and Stream Ecosystem Processes Secondary production and ecology of aquatic invertebrates Mechanisms of filter-feeding in aquatic insects

Professional Activities:

Chairman Sub-section on Aquatic Insects, Entomological Society of America (1975)

Executive Committee of Aquatic Insect Sub-section (Entomological Society of America - 1976)

 $Organizer\ of\ Aquatic\ Insect\ Symposium\ (International\ Congress\ of\ Entomology,$

Washington, DC. 1976)

North American Benthological Society (NABS), Executive Committee, 1979, 1985, 1992, 1993

(1993 ex officio)

Nominations and Place Committee of NABS, 1979, 1988, 1993 (Chairman 1993), 1995-1996

Associate Editor, Journal of the North American Benthological Society 1989-1991 Special committee to establish a distinguished benthic biologist award (Award of Excellence) for the NABS (1984-1987)

Award of Excellence Committee (NABS) (Chairman 1988), 1993

President-elect, North American Benthological Society, 1990-1991

President, North American Benthological Society, 1991-1992

Societies:

International Association of Theoretical and Applied Limnology Society for Freshwater Science (Formally, North American Benthological Society) Phi Kappa Phi Phi Sigma Sigma Xi

Contracts & Grants at UGA:

Total awarded as PI: \$3,935,196

Total awarded as joint PI: \$983,237

Total awarded as Co-PI: \$11,819,131

Contracts & Grants as PI or Joint Co-PI:

- U. S. Department of Interior, Federal Water Pollution Control Administration, 1968-69. \$29,000 (PI). "Studies on southeastern aquatic insects"
- U. S. Department of Interior, Federal Water Pollution Control Administration, 1969-70. \$22,000 (PI). "Studies on southeastern aquatic insects"

Environmental Protection Agency, Federal Water Quality Administration, 1970-72. \$18,700 (PI). "Studies on southeastern aquatic insects"

National Science Foundation - Ecology Program, 1974-76. \$48,300 (PI). "Ecological adaptations and evolutionary relationships of feeding habits in larval Trichoptera"

National Science Foundation - Ecology Program, 1976-78. \$50,000(PI). "Biology of net-

- spinning Trichoptera"
- National Science Foundation Ecology Program, 1978-80. \$106,761(PI). "Patterns of seston utilization by filter-feeding Trichoptera along longitudinal and altitudinal gradients"
- DOE Oak Ridge National Laboratory, (sub-contract on NSF grant) 1978-79. \$10,000 (PI). "Analysis of spiraling in stream ecosystems" DOE Oak Ridge National Laboratory, (sub-contract on NSF grant) 1979-80. \$23,700 (PI).
- National Science Foundation Ecology Program 1981-82. \$30,000 (PI). "Mechanisms of particle capture in net-spinning caddisflies"
- National Science Foundation Ecosystems Studies Program 1981-82. \$98,244 (subcontract with Ga. Tech. J. B. Wallace and J. L. Meyer, CO-PI's). "The biological basis of production in subtropical blackwater rivers"
- National Science Foundation Ecosystems Studies Program 1982-83. \$105,000 (subcontract with Ga. Tech. J. B. Wallace and J. L. Meyer, Co-PI's)."The biological basis of production in subtropical blackwater rivers"
- National Science Foundation Ecosystems Studies Program 1983-84. \$29,993 (subcontract with Ga. Tech. J. B. Wallace and J. L. Meyer, Co-Pl's). "The biological basis of production in subtropical blackwater rivers"
- National Science Foundation Ecology Program, 1983-85. \$60,000 (PI). "Adaptations to particle capture by filter-feeding stream insects"
- U.S. Forest Service, 1983. \$10,200 (cooperative agreement, (PI). "Benthic invertebrates in a high elevation Appalachian catchment"
- National Science Foundation Ecosystems Studies Program 1984-87. \$297,410 (PI). "Influence of invertebrates on ecosystem processes in southern Appalachian streams: a manipulative approach"
- Georgia Power Company, 1984. \$11,200 (PI). "Aquatic research on Coweeta Watershed 27"
- Georgia Power Company, 1985-1986. \$15,000 (PI). "Aquatic research on Coweeta Watershed 27"
- National Science Foundation Ecology Program, 1986-88. \$85,000 (PI). "Secondary production of macroinvertebrates in cool temperate streams with emphasis on those with overlapping cohorts"
- National Science Foundation Ecosystems Studies Program, 1988-1991. \$ 350,000 (PI) "Recovery of stream ecosystems from insecticide treatment and drought"
- U.S. Forest Service, 1991-1994, \$70,000 (PI). "Benthic stream studies at the Coweeta Hydrologic Laboratory"
- U.S. Forest Service, 1992-94, \$ 50,000 (J.B. Wallace & J.L. Meyer, Co-PI's) "Stream studies in the Wine Spring Creek Basin of Nantahala National Forest, NC"

- National Science Foundation Ecosystems Studies Program, 1992-1996. \$795,000 (J.B. Wallace PI, with two co-PI's J.L. Meyer & J.R. Webster) 1992-93 Award = \$209,997, 1993-94 Award = \$199,194, 1994-95 Award = \$191,000, 1995 Award = \$195,414, "Direct and indirect effects of resource manipulation on structure and function of a longitudinally linked ecosystem"
- National Science Foundation \$9,700 Research Experiences for Undergraduates (1993), J.B. Wallace, PI
- National Science Foundation \$9,700 Research Experiences for Undergraduates (1994), J.B. Wallace, PI
- U.S. Forest Service, 1994-95, \$18,000 J.B. Wallace, PI, "Impact of land-use practices on benthic communities in the Wine Spring Creek Ecosystem Management Area"
- National Science Foundation \$9,700 Research Experiences for Undergraduates (1995), J. B. Wallace, PI
- National Science Foundation \$4,325 Research Experiences for Undergraduates (1997), J. B. Wallace, PI
- National Science Foundation "Stream ecosystem response to decoupling terrestrial-aquatic linkages" (J.B. Wallace PI, with two co-PI's J.L. Meyer & J.R. Webster) (August 1996 July 2000), (August 1996 July 1997) First year award = \$200,000, (4-year award = \$800,000), (August 1997 July 1998) 2nd-yr award = \$197,450. (August 1998 July 1999) 3rd-yr award = \$200,802
- National Science Foundation \$4,780 Research Experiences for Undergraduates (1998), J. B. Wallace, PI
- National Science Foundation, "Nutrient effects on a detrital based ecosystem" Amy D. Rosemond and J. B. Wallace co-PIs. With K. Suberkropp, (U. Alabama) and P. Mullholland (Oak Ridge Nat.'l Laboratory) September 1998 to August 2001) \$700,000 for 3-yrs
- U.S.D.A., U.S. Forest Service, J. B. Wallace, PI, \$40,000. Stream and Watershed Restoration in Chattooga River Wathersheds, Phase I: Pretreatment Data Collection and Analyses. August 2000 to August 2001.
- U.S.D.A., U.S. Forest Service, J. B. Wallace, PI, \$40,000. Stream and Watershed Restoration in Chattooga River Wathersheds, Phase I: Pretreatment Data Collection and Analyses. August 2001 to August 2002.
- National Science Foundation, J. B. Wallace, PI, co-PIs = J. L. Meyer, K. Suberkropp (Univ. Alabama), J. R. Webster (Va Tech). "Consequences of Detrital Complexity for Ecosystem Function" 2002 Award = \$281,218 (Total Award [2002 to 2008] = \$1,007,000).
 - Grants as Co-PI, (primarily on multi-investigator projects):
- National Science Foundation, 1969-1973, \$540,000 (PI -C.D. Monk) "Analysis of mineral pathways in natural and manipulated watersheds"

- National Science Foundation, 1974-1976, \$499,000 (PI D.A. Crossley) "Effects of perturbations on nutrient circulation in forested watersheds at Coweeta"
- National Science Foundation, 1977-1979, \$508,400 (PI -D.A. Crossley) "Effects of perturbations on nutrient circulation in forested watersheds at Coweeta"
- National Science Foundation, 1979-1980, \$287,095 (PI-D.A. Crossley) "Effects of perturbation on nutrient circulation in forested watersheds"
- National Science Foundation, LTER Program, 1980-1985, \$1,474,887 (PI-D.A. Crossley)
 Comparative studies of forested watersheds at Coweeta Hydrologic Laboratory, North Carolina"
- National Science Foundation, 1984-86. Ecosystem Studies Program \$276,123. (Dr. J. L. Meyer PI) "Low gradient Coastal Plain streams: trophic linkages with floodplain swamps and tributaries"
- National Science Foundation, LTER Program, 1989-1990, \$450,181 (PI D.A. Crossley) "Long-term ecological research in forested watersheds at Coweeta Hydrologic Laboratory, North Carolina"
- National Science Foundation, LTER Program, 1991 = \$520,000, 1992 = \$543,775, 1993 = \$560,000, 1994 = \$580,000, 1995 = \$580,000 (PIs J.L. Meyer and W.T. Swank). "Long-term studies of ecosystem response to disturbance along environmental gradients"
- Long-term studies of disturbances as they affect ecological processes in landscapes of the southern Appalachians, October 1996 to 2001, Total award = \$5,000,070, D.C. Coleman, PI (Wallace is one of 20+ Co-PIs)
- National Science Foundation (Long-term Ecological Research Program), \$6,720,000 Title "Ecological consequences of land use change in the southern Appalachians" Ted Gragson (PI) JBW is one of 28 Co-PIs, \$6,720,000. Period of Award 2002 to 2008.
- National Science Foundation, A. D. Rosemond PI, J. B. Wallace and K. Suberkropp Co-Pis.

 The Keystone Role of Heterotrophic Microbes in Driving Ecosystem-level Effects of Nutrient Enrichment "2003-4, \$200,000, 2004-5 \$226,927 Total Award = \$526,924
- National Science Foundation, Supplement to "The Keystone Role of Heterotrophic Microbes in Driving Ecosystem-level Effects of Nutrient Enrichment" \$30,000 A. D. Rosemond, PI, M.C. Black and J. B. Wallace (Co-PIs)

PUBLICATIONS OF J. B. WALLACE

(* = invited chapters or papers)

- 1. Wallace, J. B. and E. C. Turner, Jr. 1963. Experiments for control of the face fly in Virginia. J. Econ. Entomol. 55: 415-416.
- Wallace, J. B. and E. C. Turner, Jr. 1964. Low-level feeding of Ronnel in a mineral salt mixture for area control of the face fly, *Musca autumalis*. J. Econ. Entomol. 57: 264-267.
- 3. Wallace, J. B. and S. E. Neff. 1968. Population estimates on larvae and adults of *Cordilura variabilis* (Loew). J. Ga. Entomol. Soc. 3: 17-21.

- 4. Wallace, J. B. 1968. Trichoptera, p. S1-S19. <u>In</u>: F. K. Parrish (editor), Keys to water quality indicative organisms (southeastern United States). FWPCA-U. S. Dept. Int.
- 5. Hermann, H. R. and J. B. Wallace. 1968. Impregnation of the tracheae of adult *Pteronarcys* (*P.*) dorsata with latex. J. Ga. Entomol. Soc. 3: 131-133.
- 6. Wallace, J. B. and E. L. Snoddy. 1969. Notes on *Dendrophaonia querceti* with descriptions of the larva and pupa. J. Ga. Entomol. Soc. 4: 1-4.
- 7. Wallace, J. B. and M. S. Blum. 1969. Refined defensive mechanisms in *Chrysomela scripta* (Coleoptera: Chrysomelidae). Ann. Entomol. Soc. Amer. 62: 503-506.
- 8. Neff, S. E. and J. B. Wallace. 1969. Life history and description of the immature stages of *Cordilura (Achaetella) deceptiva* Malloch and *C. (A.) varipes* Walker, (Diptera: Antomyiidae). Ann. Amer. Entomol. Soc. 62: 775-785.
- 9. Neff, S. E. and J. B. Wallace. 1969. Biology and description of the immature stages of *Orthocheata hirtipes* (Johnson), a facultative predator of *Cordilura* spp. larvae. (Diptera: Anthomyiidae). Ann. Amer. Entomol. Soc. 62: 785-790.
- 10. Wallace, J. B. 1969. The mature larva and pupa of *Calobatina geometroides* (Cresson). (Diptera: Micropezidae). Entomol. News 80: 317-321.
- 11. Wallace, J. B. 1970. The defensive function of a case on a Chrysomelid larva. J. Ga. Entomol. Soc. 5: 19-24.
- 12. Wallace, J. B. and R. T. Franklin. 1970. *Eutheresia interrupta* (Diptera: Tachinidae). A parasite of the Cerambycid *Neacanthocinus obsoletus*. J. Ga. Entomol. Soc. 5: 25-30.
- 13. Wallace, J. B., W. R. Woodall, and F. F. Sherberger. 1970. Breakdown of leaves by feeding of *Peltoperla maria* nymphs. Ann. Entomol. Soc. Amer. 63: 562-567.
- 14. Wallace, J. B. and F. F. Sherberger. 1970. The immature stages of *Anisocentropus pyraloides* (Walker) (Trichoptera: Calamoceratidae). J. Ga. Entomol. Soc. 5(4): 217-224.
- 15. Wallace, J. B. 1971. A new species of *Psilotreta* from North Carolina (Trichoptera: Odontoceridae). Entomol. News 81: 243-245.
- 16. Sherberger, F. F. and J. B. Wallace. 1971. The larva of *Rhyacophila vuphiphes* Milne. J. N. Y. Entomol. Soc. LXXIX: 43-44.
- 17. Wallace, J. B. and H. H. Ross. 1971. Pseudogoerinae: A new subfamily of Odontoceridae (Trichoptera). Ann. Entomol. Soc. 64: 890-894.
- 18. Wallace, J. B. and M. S. Blum. 1971. Reflex bleeding: A highly refined defensive mechanism in *Diabrotica* larvae (Coleoptera: Chrysomelidae). Ann. Entomol. Soc. Amer. 64: 1021-1024.
- 19. Wallace, J. B. and U. E. Brady. 1971. The effect of prolonged exposure to dieldrin on aquatic invertebrate populations and residue levels. Pest. Monitoring J. 5: 295-300.
- 20. Wallace, J. B. 1971. Immature stages of some muscoid calyptrate Diptera inhabiting mushrooms in the Southern Appalachians. J. Ga. Entomol. Soc. 6: 218-219.
- 21. Harman, D. M. and J. B. Wallace. 1971. Description of the immature stages of Lonchaea

- *corticis* with notes on its role as a predator of the white-pine weevil. Ann. Entomol. Soc. Amer. 64: 1221-1226.
- 22. Wallace, J. B. and S. E. Neff. 1971. Biology and immature stages of the genus *Cordilura* in eastern North America. Ann. Entomol. Soc. Amer. 64: 1310-1330.
- 23. Sherberger, F. F. and J. B. Wallace. 1971. Larvae of the southeastern species of *Molanna* (Trichoptera: Molannidae). J. Kans. Entomol. Soc. 44: 217-224.
- 24. Wallace, J. B. 1971. A new species of *Brachycentus* from Georgia with two unusual larval characters (Trichoptera: Brachycentridae). Entomol. News 82: 313-321.
- 25. Woodall, W. R. and J. B. Wallace. 1972. The benthic fauna in four small southern Appalachian streams. Amer. Midl. Natur. 88: 393-407.
- 26. Wallace, J. B. and F. F. Sherberger. 1972. New Nearctic species of *Lepidostoma* in the *vernalis* group from the southern Appalachians. Entomol. News 83: 222-228.
- 27. Blum, M. S., J. M. Brand, J. F. Wallace, and H. M. Fales. 1972. The defensive secretion of a chrysomelid larva. Life Sci. II: 525-531.
- 28. Wallace, J. B. and A. G. Lavallee. 1973. Immature stages of Milesiinae (Syrphidae). I: *Cheilosia pallipes* Loew and *Volucella apicalis* Loew. J. Ga. Entomol. Soc. 8: 187-194.
- 29. Blum, M. S., J. B. Wallace, and H. M. Fales. 1973. Skatole and Tridecene: Identification and possible role in a chrysopid secretion. Insect Biochem. 3: 353-357.
- 30. Wallace, J. B. and F. F. Sherberger. 1974. The larval retreat and feeding net of *Macronema carolina* Banks (Trichoptera: Hydropsychidae). Hydrobiologia 45: 177-188.
- 31. Lavallee, A. G. and J. B. Wallace. 1974. Immature stages of Milesiinae (Syrphidae). II: *Sphegina keeniana* and *Chrysogaster nitidae*. J. Ga. Entomol. Soc. 9: 8-15.
- 32. Ross, H. H. and J. B. Wallace. 1974. The genera of North American Sericostomatidae (Trichoptera). J. Ga. Entomol. Soc. 9: 42-48.
- 33. Wallace, J. B. 1975. *Arctopsyche:* The larval retreat, feeding net, and food (Trichoptera: Hydropsychidae), with phylogenetic notes on feeding in larval Hydropsychidae. Ann. Entomol. Soc. Amer. 68: 167-173.
- 34. Webster, J. R. and J. B. Wallace. 1975. Productivity of southeastern stream ecosystems. U.S.D.A. Forest Service Symposium on Trout Habitat Research Management. Asheville, NC. pp. 64-77.
- 35. Wallace, J. 1975. Food partitioning in net spinning Trichoptera: *Hydropsyche venularis* Banks, *Cheumatopsyche etrona* Ross, and *Macronema zebratum* Hagen (Hydropsychidae). Ann. Entomol. Soc. Amer. 68: 463-472.
- 36. Wallace, J. B. 1975. Silk spinning as an escape mechanism in *Hydropsyche orris* larvae following their removal from water. Ann. Entomol. Soc. Amer. 68: 549-550.
- 37. Gordon, A. E. and J. B. Wallace. 1975. Distribution of the Hydropsychidae (Trichoptera) in the Savannah River basin of North Carolina, South Carolina, and Georgia. Hydrobiologia 46: 405-423.

- 38. Hermann, H. R., M. Mullen, and J. B. Wallace. 1975. Suction disc in *Blepharicera separata* Alexander. J. Ga. Entomol. Soc. 10: 145-150.
- 39. Wallace, J. B. and F. F. Sherberger. 1975. The larval dwelling and feeding structure of *Macronema transversum* (Walker) (Trichoptera: Hydropsychidae). Anim. Behav. 23: 592-596.
- 40. Woodall, W. R. and J. B. Wallace. 1975. Mineral pathways in small Appalachian streams. Pp. 408-422, In: F. G. Howell, J. B. Gentry, and M. H. Smith (eds.), Mineral cycling in southeastern ecosystems. ERDA Symposium Series (Conf. 740513).
- 41. Wallace, J. B., S. R. Sherberger, and F. F. Sherberger. 1976. Use of the diatom *Terpsinoe musica* Ehrenb. as casemaking material by *Leptocella* larvae (Trichoptera: Leptoceridae). Amer. Midl. Nat. 95: 236-239.
- 42. Wallace, J. B. and D. Malas. 1976. The significance of the elongate rectangular mesh found in capture nets of fine particle filter feeding Trichoptera larvae. Arch. Hydrobiol. 77: 205-212.
- 43. Wallace, J. B., W. R. Woodall, and A. A. Staats. 1976. The larval dwelling-tube, capture net, and food of *Phylocentropus placidus* (Trichoptera: Polycentropodidae). Ann. Entomol. Soc. 69: 149-154.
- 44. Wallace, J. B. 1976. A progress report on the North American *Macronema* larvae: their retreats, food and feeding nets (Trichoptera: Hydropsychidae). pp. 145-146. <u>In</u>: H. Malicky (ed.), Proc. First Int. Symp. on Trichoptera (1974). Junk Publishers, The Hague.
- 45. Wallace, J. B. and D. Malas. 1977. The fine structure of capture nets of larval Philopotamidae (Trichoptera), with special emphasis on *Dolophilodes distinctus*. Can. J. Zool. 54: 1788-1802.
- 46. Duffield, R. M., M. S. Blum, J. B. Wallace, H. A. Lloyd, and F. E. Regnier. 1977. Chemistry of the defensive secretion of the caddisfly *Pycnopsyche scabripennis* (Trichoptera: Limnephilidae). J. Chem. Ecol. 3: 649-656.
- 47. Malas, D. M. and J. B. Wallace. 1977. Strategies for coexistence in three species of netspinning caddisflies (Trichoptera) in second order southern Appalachian streams. Can. J. Zool. 55: 1829-1840.
- 48. Wallace, J. B., J. R. Webster, and W. R. Woodall. 1977. The role of filter feeders in flowing waters. Arch. Hydrobiol. 79: 506-532.
- 49. Blum, M. S., J. B. Wallace, R. M. Duffield, J. M. Brand, H. M. Fales, and E. A. Sokoloski. 1978. Chrysomelidial and its enol lactone in the defensive secretion of the leaf beetle, *Gastrophysa cyanea* Melsheimer. J. Chem. Ecol. 4: 47-53.
- 50. Unzicker, J. D. and J. B. Wallace. 1979. In Memoriam: Herbert Holdsworth Ross (1908-1978). J. Ga. Entomol. Soc. 14: 1-2.
- 51. Unzicker, J. D. and J. B. Wallace. 1979. Herbert Holdsworth Ross, 1908-1978. (Memoriam). J. Econ. Entomol. 72: 309-310.
- 52. Wallace, J. B. and J. O'Hop. 1979. Fine particle feeding capabilities of *Isonychia* sp. (Ephemeroptera: Siphlonuridae). Ann. Entomol. Soc. Amer. 72: 353-357.

- 53. Benke, A. C. and J. B. Wallace. 1980. Trophic basis of production among net-spinning caddisflies in a southern Appalachian stream. Ecology 61: 108-118.
- 54. *Wallace, J. B. and R. W. Merritt. 1980. Filter-feeding ecology of aquatic insects. Ann. Rev. Entomol. 25: 103-132.
- 55. Flint, O. S. and J. B. Wallace. 1980. Studies of neotropical caddisflies. XXV: The immature stages of *Blepharopus diaphanus* and *Leptonema columbianum* (Trichoptera: Hydropsychidae). Proc. Biol. Soc. Wash. 93: 178-193.
- 56. Gurtz, M. E., J. R. Webster, and J. B. Wallace. 1980. Seston dynamics in southern Appalachian streams: effects of clearcutting. Can. J. Fish. Aquatic Sci. 37: 624-631.
- 57. Cudney, M. D. and J. B. Wallace. 1980. Life cycles, microdistribution, and production dynamics of six species of net-spinning caddisflies in a large southeastern (U.S.A.) river. Holarctic Ecol. 3: 169-182.
- 58. Ross, D. and J. B. Wallace. 1981. Production of *Brachycentrus spinae* Ross (Trichoptera: Brachycentridae) and its role in seston dynamics of a southern Appalachian stream. Environ. Entomol. 10: 240-246.
- 59. Haefner, J. D. and J. B. Wallace. 1981. Production and potential seston utilization by *Parapsyche cardis* and *Diplectrona modesta* (Trichoptera: Hydropsychidae) in a southern Appalachian stream. Environ. Entomol. 10: 433-441.
- 60. Haefner, J. D. and J. B. Wallace. 1981. Shifts in aquatic insect populations in a first-order southern Appalachian stream following a decade of old field succession. Can. J. Fish. Aquat. Sci. 38: 353-359.
- 61. Georgian, T. J. and J. B. Wallace. 1981. A model of seston capture by net-spinning caddisflies. Oikos 36: 147-157.
- 62. Merritt, R. W. and J. B. Wallace. 1981. Filter-feeding in aquatic insects. Scientific American 244: 132-144.
- 63. *Wallace, J. B. 1982. Some aspects of diversity in net-spinning Trichoptera. pp. 45-64. <u>In</u>: J. Eaton (ed.), Proc. Symp. discovery processes in biology. Occ. Pap. Dept. Entomology, Va. Poly. Inst. & State Univ. Blacksburg, VA.
- 64. Wallace, J. B., D. H. Ross, and J. L. Meyer. 1982. Seston and dissolved organic carbon dynamics in a southern Appalachian stream. Ecology 63: 824-838.
- 65. Ross, D. H. and J. B. Wallace. 1982. Factors influencing the longitudinal distribution of larval hydropsychidae (Trichoptera) in a southern Appalachian stream system (USA). Hydrobiologia 96: 185-199.
- 66. Wallace, J. B., J. R. Webster, and T. F. Cuffney. 1982. Stream detritus dynamics: regulation by invertebrate consumers. Oecologia (Berlin) 53: 197-200.
- 67. *Webster, J. R., M. E. Gurtz, J. J. Hains, J. L. Meyer, W. T. Swank, J. B. Waide, and J. B. Wallace. 1983. Stability of stream ecosystems. <u>In</u>: J. R. Barnes and G. W. Minshall (eds.), The Testing of General Ecological Theories in Stream Ecosystems. Plenum Press, New York, NY.
- 68. O'Hop, J. R. and J. B. Wallace. 1983. Invertebrate drift, discharge, and sediment relations in a southern Appalachian headwater stream. Hydrobiologia 98: 71-84.

- 69. Ross, D. H. and J. B. Wallace. 1983. Longitudinal patterns of production, food consumption and seston utilization by net-spinning caddisflies (Trichoptera) in a southern Appalachian stream (USA). Holarctic Ecol. 6: 270-284.
- 70. Georgian, T. J., Jr. and J. B. Wallace. 1983. Seasonal production dynamics in a guild of periphyton-grazing insects in a southern Appalachian stream. Ecology 64: 1236-1248. (also: * Georgian, T. J., Jr. and J. B. Wallace. 1984. Seasonal production dynamics of six species of periphyton-grazing stream insects. BioSci. 34: 42-43. condensed version of the above paper selected by editors of Ecology).
- *Anderson, N. H. and J. B. Wallace. 1984. Habitat, life history and behavioral adaptations of aquatic insects, Chap. 5, pp. 74-114. <u>In</u>: R. W. Merritt and K. W. Cummins (eds.). An Introduction to the Aquatic Insects of North America. 2nd ed. Kendall-Hunt, Dubuque, IA
- 72. O'Hop, J., J. B. Wallace, and J. D. Haefner. 1984. Production of a stream shredder, *Peltoperla maria* (Plecoptera: Peltoperlidae) in disturbed and undisturbed hardwood catchments. Freshwater Biol. 14: 13-21.
- 73. Freeman, M. C. and J. B. Wallace. 1984. Production of net-spinning caddisflies (Hydropsychidae) and black flies (Simuliidae) on rock outcrop substrate in a small southern Piedmont stream. Hydrobiologia 112: 3-15.
- 74. Gurtz, M. E. and J. B. Wallace. 1984. Substrate-mediated response of stream invertebrates to disturbance. Ecology 65: 1556-1569.
- 75. Huryn, A. D. and J. B. Wallace. 1984. A new eastern Nearctic limnephilid (Trichoptera) with unusual zoogeographical affinities. Ann. Entomol. Soc. Amer. 77: 284-292.
- 76. Wallace, J. B. and A. C. Benke. 1984. Quantification of wood habitat in subtropical Coastal Plain streams. Can. J. Fish. Aquat. Sci. 41:1643-1652.
- 77. Petersen, R. C., L. Petersen, and J. B. Wallace. 1985. Influence of velocity and food availability on catchnet dimensions of *Neureclipsis bimaculata* (Trichoptera: Polycentropodidae). Holarctic Ecol. 7: 380-389.
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Other Awards and/or Special Service:

Recipient of the North American Benthological Society "Award of Excellence in Benthic Science" for 1999.

Providence, RI, Special Symposium May 2011 North American Benthological Society "A Bug's life, Stream macroinvertebrates as mediators of ecosystem processes: insights gained from the work of J. Bruce Wallace". Speakers: Drs. A. D. Huryn, A. C. Benke, Emma Rossi-Marshall, R. O. Hall, M. R. Whiles, G. J. Lugthart, T. F. Cuffney, J. R. Webster, S. L. Eggert, A. D. Rosemond, J. D. Davis, J. L. Meyer. Appreciation, Correction, and Reflection (J. B. Wallace)

Recipient of the 2013 Environmental Stewardship Award from the Society for Freshwater Science (formally North American Benthological Society)

Appointed as an outside expert (to work with U.S. E.P.A., Fish & Wildlife Service, U.S. Army Corps of Engr., and Office of Surface Mining) to construct an Environmental Impact Statement for the practice of Mountaintop Removal and Valley Filling (MTR/VF) as being practiced in the central Appalachian region following a Settlement between the WVA Highlands Conservancy, Trial Lawyers for Public Justice, and Federal Agencies in the southern district Federal Court, Charleston, WVA. (Funded by EPA for period of 1999 to 2004). Expert witness U.S. Federal Court for Earth Justice and Appalachian Center for the Economy and Environment, June 2006, September and October 2006.

Awards (at UGA):

University of Georgia Research Award, November, 1978
Creative Research Medal, University of Georgia, 1984
Departmental Teaching Award (from Graduate Students) 1979
Entomology Departmental Outstanding Teaching Award - (H. O. Lund Club), 1991
Named a Fellow of The Georgia Entomological Society, 1994
Entomology Departmental Outstanding Teaching Award - (H. O. Lund Club), 1997
University Teaching Award 1998

Entomology Department Outstanding Teaching Award (H. O. Lund Club), 2004 Institute of Ecology, outstanding Teaching Award with J.L. Meyer 2005

Grants reviewed for:

Australia - CSIRO (4); Arkansas Science and Technology Authority; Canada - Natural Sciences and Engineering Research Council of Canada (0.5/yr); National Geographic Society; National Science Foundation (4-5/yr); Natural Environment Research Council of Great Britain; Oregon State University, Hatch; State of Florida; State of Kentucky; State of Maryland; State of Montana; USDA (Forest Service); U.S. D.I., National Park Service; and, U.S.-E.P.A.

Service on Grant Panels:

U.S.E.P.A. STAR Program (Aquatic Resources) Panelist 1997, 1998

Activities (meetings) International

First International Symposium on Trichoptera. Lunz Am See, Austria, September 1974.

- Organizer and moderator of a Symposium on Insects in Streams for the International Congress of Entomology, Washington, DC. (Summer of 1976).
- Aarhus University, Aarhus, Denmark, June 25 July 3, 1980. Guest instructor in Nordiskt Kollegium for Ekologi course on the role of filter-feeding organisms in running water ecosystems.
- "Retention and Entrainment in Stream Ecosystems," Nordiskt Kollegium for Ekologi, Lund, Sweden, April 11, 1984. (Guest Instructor)
- "Biology of Net-Spinning Caddisflies," Nordiskt Kollegium for Ekologi, Lund, Sweden, April 11, 1984. (Guest Instructor)
- International Conference on Ecology and Population Management of Black Flies, State College, PA, May 28-30, 1985.
- International Society of Theoretical and Applied Limnology, Hamilton, New Zealand, February 1987
- International Congress of Entomology, Vancouver, BC., 1988. (Invitational Talk at Symposium)
- International Society of Theoretical and Applied Limnology; Munich, West Germany, August 1989
- Conference on the Conservation and Management of Rivers, University of York, York, England, 1990. J.R. Webster plus 4 other authors.

International Society of Theoretical and Applied Limnology; Dublin, Ireland, August 1998 gave

- one talk, co-author on two others
- Keynote Speaker "2nd International Meeting on Plant Litter Processing in Freshwater Systems" Lunz, Austria, September 1999 (also member of scientific advisory committee).
- Headwater Stream Ecosystems Symposium, University of British Columbia, Vancouver, BC, 8 April 2000 (Invited Keynote Speaker)
- Invited Plenary Address; Joint Meeting of the Australian and New Zealand Limnological Societies, Queensland, NZ. 4 December, 2007
- Invited Plenary Speaker: Small streams in the landscape: under-assessed, and underappreciated. Fifth International Meeting on Plant Litter Processing in Freshwaters, University of Coimbra, Coimbra, Portugal 25 July 2008

Meetings - National, Regional, and State:

- AIBS Meeting, Athens, GA, Invitational Symposium with J. R. Webster and M. E. Gurtz, August, 1978; Bloomington, IN, August, (with J. R. Webster and T. F. Cuffney) 1981.
- American Geophysical Union, Baltimore, Maryland, 1996 (Invited paper)
- American Society of Limnology and Oceanography, Los Angeles, CA, January 1980, (Invitational Symposium); American Society of Limnology and Oceanography, Madison, WI, June 1987 (Invitational Symposium).
- American Society of Limnology and Oceanography, St. Louis MO. June 1998, Invitational Talk at Symposium (J. B. Wallace); also, submitted presentation with Sara Baer.
- Association of Southeastern Biologists, Charlotte, NC, 1989 (Invitational Talk at symposium).
- Atomic Energy Commission Mineral Cycling Symposium, Augusta, GA, 1974 (with W. R. Woodall).
- Carolina Area Benthological Society, Aiken, SC October 1988 (Invitational Talk).
- Chattahoochee Chapter of Trout Unlimited, Atlanta, GA, July 1976, August 1982 (guest speaker)
- Ecological Society of America, Syracuse, NY, 1986 (with T. F. Cuffney), Ecological Society of America, Annual Meeting, Providence, RI, August 1996. Benke, A.C., and J. B. Wallace (talk).
- Entomological Society of America, 1968, 1970, 1971, 1972 (joint meeting with Canada), 1973, 1974, 1975, 1976, 1980 (Invitational Symposium), 1981 (talk with D. Ross), 1985 (contributed paper with J. O'Hop), 1987 (Invitational Symposium), 1990 (Invitational Talk at Symposium). Eastern Branch of Entomological Society of America, Baltimore, MD, 1963. Southeastern Branch Entomological Society of America, Charleston, S. C. 1995 (Invited Symposium)
- Georgia Entomological Society, 1971, 1989 Invitational Talk at Symposium
- Georgia Water and Pollution Control Association, Augusta, GA, 1971. (Invitational talk)
- National Acid Precipitation Assessment Meeting, Asheville, NC, 1984.
- National Atmospheric Precipitation Assessment Program, New Orleans, LA, 1987. National Symposium on Recovery of Lotic Ecosystems from Disturbance, Sponsored by

North American Benthological Society, Cincinnati, OH, 1974J. B. Wallace (talk); North American Benthological Society, La Crosse, WI, 1976 (Invitational Talk at Symposium), 1976 (Invitational Talk at Symposium with J. R. Webster and W. R. Woodall - one of two talks); North American Benthological Society Roanoke, VA, 1977 Diane Malas and J. B. Wallace (talk); North American Benthological Society Winnipeg, Manitoba, 1978 (Invitational Symposium; plus a presented paper with A. C. Benke); North American Benthological Society Erie, PA, 1979 (3 talks with M. Gurtz, J. O'Hop, and T. Georgian); North American Benthological Society Savannah, GA, 1980 M. E. Gurtz and J. B. Wallace (talk); North American Benthological Society Provo, UT, 1981 (2 talks, one with J. R. Webster and T. F. Cuffney and one with M. Gurtz. Also chaired one session at meeting); North American Benthological Society Ann Arbor, MI, 1982 (with Ted Georgian); North American Benthological Society Raleigh, NC, 1984 J. B. Wallace and J. O'Hop (talk); North American Benthological Society Corvallis, OR, 1985 (Invitational Talk in Plenary Session); North American Benthological Society Lawrence, KS, 1986 (two talks with T. F. Cuffney and A. D. Huryn), North American Benthological Society Orono, MA, 1987 (2 papers); North American Benthological Society Guelph, Ont., 1989 (Contributed paper; plus one with G. A. Schurr); North American Benthological Society Blacksburg, VA, 1990 (3 contributed papers); North American Benthological Society Santa Fe, NM,1991 (3 contributed papers + 1 Invitational Symposium); North American Benthological Society, Louisville, KY, 1992 (1) plus Presidential Address; North American Benthological Society 1993, Calgary, Alberta (Invitational Symposium (1) plus one submitted paper with J. W. Grubaugh, North American Benthological Society, Orlando, Florida, 1994 (6 presentations): J. B. Wallace, J. R. Webster, J. R. Meyer (talk); J. W. Grubaugh, J. B. Wallace, and M. R. Whiles (talk); J. L. Meyer, S. Eggert, and J. B. Wallace (talk); S. L. Eggert, J. B. Wallace, J. L. Meyer and J. R. Webster (talk); M.R. Whiles and J. B. Wallace (talk); D. Wohl, J. B. Wallace, and J. L. Meyer (talk). North American Benthological Society, Annual Meeting, Keystone Resort, Colorado, 1995 (6 presentations) S. Baer and J. B. Wallace (talk); J. B. Wallace, J. W. Grugbaugh and M.R. Whiles (talk); J. W. Grubaugh, J. B. Wallace, and E. S. Houston (talk); S. L. Eggert, J.B. Wallace, J. L. Meyer, and J. R. Webster (talk); C. L. Peredney et al. (talk); M. R. Whiles and J. B. Wallace (talk); J.J. Hutchens, J. B. Wallace, and D. Wohl (poster). North American Benthological Society, Kalispell, Montana, 6-8 June 1996 (6 presentations) Wallace, J. B., S. L. Eggert, J. L. Meyer (talk), and J. R. Webster; Eggert, S.L., J. B. Wallace, J. L. Meyer, J. B. Wallace (talk); Baer, S. G., and J. B. Wallace (talk); Adams, J.C., J. R. Webster, J. B. Wallace, and S. L. Eggert (talk); Meyer, J. L., J. B. Wallace, and S. L. Eggert (talk); Hall, R. O., J. L. Meyer, J. B. Wallace, and S.L. Eggert (talk); and, Hutchens, J. J., and J. B. Wallace (poster). North American Benthological Society, San Marcos, Texas, May 26-30, 1997 (5 presentations); J. J. Hutchens, K. Chung, J. B. Wallace (talk); G. Plague, J. B. Wallace, and J. W. Grubaugh (talk); J. R. Webster, et al. (talk); E. Rossi and J. B. Wallace (talk); A. Willats, J. B. Wallace, and B. J. Freeman (talk); R. O. Hall, J. B. Wallace, S. L. Eggert (talk). North American Benthological Society, Charlottetown, Prince Edward Island, Canada, 2-5 June 1998, 3 Talks (E. Rosi, J. Meyer, S. Eggert, J. B. Wallace); J. Hutchens & J. B. Wallace); and E. Romaniszyn & J. B. Wallace. North American Benthological Society Meeting, Duluth, MN, May 1999 (4 presentations) E. J. Rosi, J. L. Meyer and J. B. Wallace, S. M. Haggerty, D.P. Batzer, C. A. Strum, J. B. Wallace, and C. R. Jackson, S. L. Eggert and J. B. Wallace, B. R. Johnson and J. B. Wallace; North American Benthological Society, Keystone, CO, May-June 2000 (2 Talks) A. Roy, A. Rosemond, M. Paul, and J. B. Wallace; E. R. Siler, J. B. Wallace, and S. L. Eggert; North American Benthological Society, La Crosse, WI June 2000 (4 talks) with Judy L. Meyer and J. B. Wallace, Wyatt Cross, J. B. Wallace, Sue Eggert, and E. R. Siler; North American Benthological Society, North American Benthological Society, Pittsburgh, PA. May 2002 (3 contributed talks) with J.P. Benstead et al, H. S. Wilcox, and W. F. Cross, J. B. Wallace, B. Johnson, and A.D. Rosemond; North American Benthological Society, Athens, GA, May 2003 (7 contributed talks) with J. L. Greenwood, et al., E. Chiao, J. J. Hutchens et al., S. Eggert, H. S. Wilcox, et al., W. F. Cross et al., S. Entrekin; Ecological Society of America, Savannah, GA August 2003, with A. D. Rosemond, et al.; North American Benthological Society, Vancouver, BC, June 2004, 4 talks with A.D. Rosemond et al., S. Eggert et al., J. L. Meyer et al.; Joint Meeting of American Geophysical Union and North

American Benthological Society, New Orleans, LA, May 2005, 5 presentations, A. D. Rosemond et al., S. Eggert et al., J. B. Wallace et al., Paul Black et al., and E. Chiao. North American Benthological Society, Louisville, KY (May 2012): J. B. Wallace, S. L. Eggert, and J. L. Meyer (one presentation); Society for Freshwater Science, Milwaukee, WI (18 May 2005) J. B. Wallace, S. L. Eggert, and J. L. Meyer (one presentation).

Invited Keynote Speaker; Southeastern SETAC, Athens, GA. April 12, 2007, Athens, GA "Coal Mining Issues in the Central Appalachians

Regional Meetings and Workshops: Invitational Papers

- "The value of headwater streams" Special Symposium on Mountain Top Removal and Valley Filling, State College, PA, 13 April, 1999.
- "The role of headwater streams and their restoration" Special workshop on restoration for Mountaintop Removal and Valley Fill Mining, Prestonsburg, KY. 16 June, 1999
- Southeastern Aquatic Ecology Workshop, Augusta, GA, with A. C. Benke, October 1977.
- Southeastern Association of Water Pollution Control Biologists, Athens, GA, October, 1982 (Invitational Talk).
- Southeastern Association of Water Pollution Control Biologists, Unicoi State Park, GA, November, 1998, Keynote Address for Conference
- Symposium on Trout Habitat Research Management, U.S.D.A. Forest Service, Cullowhee, NC, 1974 (2 with J. R. Webster).
- Webmaster's Conference, Institute of Ecology and UGA Botanical Gardens, October 4-6, 1998, Invitational Talk (J. B. Wallace & J. Hutchens)
- "H. H. Ross" Founders Memorial Talk, Georgia Entomological Society, April 2005

Special meetings and workshops:

- Atlanta Georgia, 1968, Instructor for short course on aquatic invertebrate identification, sponsored by U.S.D.I. FWPCA Stream workshop Internat. Biol. Prog. Seattle, WA 1969
- Trichoptera Meeting, 20-30 Aug. 1976, Smith Mt. Lake, VA
- Virginia Polytechnic Institute and State University, Blacksburg, VA, June 1979 (invited lecture for symposium "Discovery Processes in Biology").
- Workshop on Stream Research at LTER Sites, Manhattan, KS 10-13 July, 1983
- International Symposium on Trichoptera, Clemson University 13-15 July, 1983
- "Benthic Invertebrate Research at Coweeta: Past, Present, and Future", 50th Anniversary Coweeta Symposium, University of Georgia, October 1984.
- "Factors controlling community structure and function in tropical vs. temperate streams", sponsored by the National Science Foundation, Flathead Lake, MT, April 1987.
- Puerto Rico (with A. Covich and J. L. Meyer) to discuss potential collaborative research with

Coweeta LTER Site.

NSF-LTER Coordinating Committee Meeting, H. J. Andrews Experimental Forest, OR.

Coweeta Hydrologic Laboratory, NSF Site Review, gave the presentation on Aquatic and Terrestrial Consumers, 1989.

Belle Baruch Coastal Research Center (USC and Clemson), workshop on effects of drought on aquatic and terrestrial ecosystems, 1989.

National Advanced Resource Technology Center, Pinal Air Park, Marana, Arizona - Guest Instructor for "Assessing the influence of pesticides on aquatic ecosystems" sponsored by U.S.D.A.-Forest Service. 18 - 23 February, 1991

Stream workshop for LTER sites, Louisville, KY - May 1992

Intensive Site Ecosystem Monitoring Workshop (U.S. Forest Service), Denver, Co. July 1992 - invited outside participant

Stream Organic Matter Workshop, Calgary, Alberta - May 1993

EPA Meeting on Wine Spring Creek, Coweeta, 1995

National Center for Ecological Analysis and Synthesis, Santa Barbara, CA, 1996

American Fisheries Society Sedimentation Workshop, Clemson, SC, 1996

Invertebrates as webmasters in ecosystems. Conference, UGA Botanical Garden, Oct. 4-6-1998

Meeting on assessing influence of Mountaintop Removal and Valley Filling, Charleston, WVA, 17 March 1999

Special Symposium on Mountain Top Removal and Valley Filling, State College, PA, 13 April, 1999

Special Symposium on Mountaintop Removal and Valley Filling, Prestonsburg, Ky June 1999

Special Meeting on Stream Environmental Impact Study, Wheeling, WVA, July 6 and 7, 1999

Invited Presentation on "Mountaintop Removal and Valley Fill Coal Mining" to Directors and Associate Directors of USEPA Laboratory, Athens, GA, 13 July 1999

Special Meeting on Planning Symposium on Impact of Coal Mining on Central Appalachians, Morgantown, WVA 15 September, 1999

February 3-4, 2000, Special meeting to draft potential factors that can be used in establishing a biological criterion for delineating permanent from intermittent streams. United States Conservation Training Center, Shepardstown, West Virginia.

February 22-23, 2000, Special meeting to work on draft section of Environmental Impact Study … effects of coal mining activities on streams in the Central and Southern Appalachian Mountains. United States Fish and Wildlife Service, State College, PA.

- March 16-17, 2000, Special meeting attempting to work on out of court settlement for issues relating to mountaintop removal/valley fill mining, US Dept. Justice, Washington, DC.
- Sept. 16-21, 2000, SETAC Pellston Conference on Environmental Assessments, University of Michigan Biological Station, Pellston, Michigan Invited Participant as guest of SETAC.
- 28 May, 2002, An Overview of Mountaintop Removal / Valley Fill Coal Mining North American Benthological Society, Technical Issues Symposium, Pittsburgh, PA
- October 17, 2002, Canaan Valley Institute, Canaan Valley Resort State Park, WV "Terrestrial and longitudinal linkages of headwater streams" Keynote Speaker
- 2 February, 2003, North American Black Fly Conference, Archbold Biological Station, Florida
- February 9, 2005, "Physical and chemical effects of mountaintop removal and valley fill mining on stream biota" USGS Workshop Linking Hydrologic and Change and Ecological Response in Streams and Rivers, Dulles, VA

Seminars presented:

Georgia State University, Atlanta, GA, 1968

Southeast Water Laboratory (Applied Biology Seminar Training Program), Athens, GA, 1969

Faculty of Animal Behavior, University of Georgia, Athens, GA, 1974

Clemson University, Clemson, SC, 1975

The Citadel, Charleston, SC, 1975

University of Georgia, Institute of Ecology, Athens, GA, 1975, 1978, 1984, 1990

Miami University, Oxford, OH, 1976

Georgia Tech, Atlanta, GA, 1976

R/V Alpha Helix, Manaus, Brazil, 1977

University of Iowa Lakeside Laboratory, Milord, IA, June 1977 & July 1977

Clemson University, Clemson, SC. 1977

Georgia College, Milledgeville, GA, 1978

Western Carolina University, Cullowhee, NC, 1978

University of Bridgeport, Bridgeport, CT, 1978

University of Georgia, Department of Entomology, 1978, 1985, 1988

Michigan State University, East Lansing, MI, 1978 (two)

Virginia Polytechnic Institute and State University, Blacksburg, VA, 1979 (Entomology)

University of Alabama, Tuscaloosa, AL, 1979

University of Georgia, Hydrobiology Seminar, Athens, GA, 1979

University of Lund, Limnologiska Institution, Lund, Sweden, 1980 (three)

University of Lund, Rheogroup, Institute of Animal Ecology, Lund, Sweden, 1980

University of Trondheim, Trondheim, Norway, 1980 (two)

University of Oslo, Oslo, Norway, 1980

University of Georgia, Limnology Class, 1980

Georgia Chapter of Trout Unlimited, Atlanta, GA, 1981

Columbus College Chapter AIBS, Columbus, GA, May 1982

Kansas State University, Manhattan, KS, 1983 (Journal Club)

Kansas State University, Manhattan, KS, 1983 (Biology Dept.)

Matamek Research Station, Sept Iles, Quebec, Canada, 1983

Savannah River Ecology Laboratory, Aiken, SC, 1984 (2)

University of Lund, Limnologiska Institution, Lund, Sweden, 1984

University of Alabama, Tuscaloosa, AL, 1984

Coweeta Hydrologic Lab, Otto, NC, 1985 (2)

Virginia Polytechnic Institute and State University, Blacksburg, VA, Dept. Biology 1985

University of North Carolina, Dept. Biology, Chapel Hill, NC, 1986

Colorado State University, Ft. Collins, CO, 1987 Dept. Entomology

Colorado State University, Ft. Collins, CO, 1987 Dept. Zoology

Institute of Ecosystem Studies, New York Botanical Garden, Cary Arboretum, 1987

University of Montana, Flathead Lake Biological Station, 1989

Hydrobiology Seminar, Institute of Ecology, UGA, 1990

School of Forest Resources, University of Georgia, 1991

Jones Ecological Research Ctr., Woodruff Foundation, Ichuaway, GA, 1993

Michigan State University, East Lansing, MI, Co-sponsored by Departments of Entomology and Zoology, 1993

University of Alabama, Dept. Biology, Tuscaloosa, AL, 1995

University of Florida, Dept. Entomology, Gainesville, FL, 1995

University of Iowa, Iowa City, Iowa - Ecology Group, 1996

University of Iowa, Iowa City, Iowa - Division of Biological Sciences, 1996

Auburn University, Department of Entomology, Auburn, AL February 1998.

University of Maine, Division of Biological Sciences, Orono, ME, April, 1998.

Department of Entomology, University of Georgia, April, 1998

Dept. Biology, University of North Carolina, Greensboro, November 2, 1999

Dept. Biology, Virginia Polytechnic Institute and State University, Blacksburg, VA. November 3, 1999

Department of Entomology, Clemson University Clemson, SC 6 March 2000

Department of Evolutionary Biology and Ecology, Rutgers University, New Brunswick, N.J. 6 October, 2000

Institute of Ecology, University of Georgia, 17 October 2000

Clemson University, Clemson SC 31 January 2003

Southern Illinois University, Carbondale, IL, 18 April 2003

Appalachian State University, Boone NC, 17 September 2003

Public Lecture, Joan Stroud Memorial Lecture, Stroud Research Center, 14 November, 2003, West Chester County PA

Seminar Stroud Research Center, 15 November, 2003, West Chester County, PA

Michigan State University, East Lansing Michigan, 19 November 2003, (two lectures)

UGA Riverbasin Center MOUNTAINTOP REMOVAL / VALLEY FILL MINING: UNRESOLVED CONFLICTS AND QUESTIONS AMONG PUBLIC, CONSERVATION, INDUSTRY, AND GOVERNMENT ("POLITICAL"?) INTERESTS,, Athens, GA. April 13, 2007,

Other activities:

Participant with River Continuum Research Group Involved with Amazon Studies: Manaus, Brazil, to Iquitos, Peru, aboard the R/V Alpha Helix, February-March 1977.

Temporary Visiting Professor, Iowa Lakeside Laboratory, 1977.

Participant with River Continuum Research Group, Salmon River Basin, ID, August 1977; Salmon River, ID, July 1978.

Visiting Scientist, Limnologiska Institution, University of Lund, Lund, Sweden, (Funded by Swedish Natural Science Foundation), March-September 1980.

Guest Instructor for Nordiskt Kollegium for Ekologi Course for Scandinavian Graduate Students, Ãrthus, Denmark, June-July 1980

Member, USDA-CSRS - External Review of Aquatic Biology and Agr. Science Program, Florida A&M University, Tallahassee, FL 1983

- Guest Instructor for Nordiskt Kollegium for Ekologi Course for Scandinavian Graduate Students, Lund, Sweden, April 1984.
- U.S. EPA Grant Panelist for Science to Achieve in Research (STAR), February 12-13, Washington, DC
- U.S. EPA Grant (Super-panelist) for Science to Achieve in Research (STAR), February 14-15, Washington, DC
- United States Senate, Subcommittee on Clean Air, Wetlands, and Climate Change of the Subcommittee on Public Works and Environment, Requested and Provided written and oral testimony on 6 June, 2002, on issues relating to Mountaintop Mining.
- External Program Review of Ecology Program, Penn State University, College Park, PA, April 12-16, 2003
- Foreign Panel Member, Canadian Government Grant Panel "Innovation in Aquatic Sciences", Ottawa, Ontario, 29-31 October, 2003
- 12 February, 2007 External Examiner for Ph.D. Dissertation, Memorial University, St. John's, Newfoundland

Consulting:

Georgia Power Company, Altamaha River Investigations at the Hatch Nuclear Plant Georgia Power Company Invertebrate Identification Short Course for Environmental Division U.S.E.P.A. Cincinnati, OH - Taught 3 day course on Trichoptera for State and Federal Pollution Control Biologists (with V.H. Resh, U.Calif. Berkeley)

U.S.E.P.A. - Duluth, MN - recovery of stream ecosystems

Gwinnett County (Georgia) Department of Public Works, Yellow River Wastewater Treatment Plant Assessment

Earth Systems Associates, LTD - Stream Surveys in vicinity of old mining operations of Combustion Engr. at Graves Mt. Lincoln County, Georgia

Selection Committee for Aquatic Ecologist Position for J.W. Jones Ecological Research Center (Ichuaway)

Bell and Parnell, Attorneys-at-law (Augusta & Atlanta, GA), Maloof et al. vs. Combustion Engr. - expert witness, United States Federal Court, 1992; 1996.

William Parnell, Attorney-at-law (Atlanta, GA) -1999

U.S. Government (EPA as lead Agency) 1999 – 2004 on Mountaintop Removal/Valley Fill Coal Mining

Paragon Trade Brands, Norcross, Georgia 2001

Penn State University, 2003, Committee to Review Ecology Graduate Program at Penn State Trial Lawyers for Public Justice, Washington, DC and Appalachian Center for the Economy and Environment, Lewisburg, WV – 2002-3 (Issues relating to mountaintop removal coal mining in Kentucky and West Virginia); 2005-2006 (Earth Justice and Appalachian Center for the Economy and Environment – issues relating to mountaintop removal coal mining).

Manuscripts reviewed for:

9 chapters for books; Amer. Midl. Nat.; American Naturalist; Annals Entomological Society of America; Atomic Energy Commission - Mineral Cycling Symposium; Australian J. Marine & Freshwater Research; BioScience; Biotropica; Canadian Journal of Fisheries and

Aquatic Sciences; Canadian J. Zoology; Ecology; Ecology Monographs; Ecosystems; Environmental Entomology; Freshwater Biology; Holarctic Ecology; Hydrobiologia; Journal of Environmental Quality; J. Fish. Res. Bd. Canada; Freshwater Biology; Journal of Freshwater Ecology; Journal of Animal Ecology, Journal of North American Benthological Society; Journal of the Georgia Entomological Society; Limnology and Oceanography; New Zealand Journal of Marine and Aquatic Sciences, Nordic Journal of Freshwater Ecology, Oikos; Savannah River Ecology Lab. - Mineral Cycling Symposium; Science; Southwestern Naturalist; and U. S. Department of Agriculture. Book Outlines reviewed for Kendall/Hunt (Dubuque); Praeger Scientific (New York); Chapman & Hall (London); 1998 reviewed manuscripts for following journals: Science (2), Freshwater Biology (3), Hydrobiologia (1), Oikos (1), Acta Oecologia (1), and Book Chapter for Stream and River Ecology (T. W. Waters); 1999 reviewed for Journal of Forest Ecology and Management (1), Ecology (1), Hydrobiologia (1), Ecosystems (2), Freshwater Biology (2), Limnology and Oceanography (1), International Review of Hydrobiology (1); (2000) Limnology and Oceanography (1), International Review of Hydrobiology (1), Oecologia (Berlin) (1), Hydrobiology (1)

Teaching:

Courses Taught

Ent 694, Aquatic Entomology, 1989, 1991, 1993, 1995, 1996, 1998
Entomology 8694, Aquatic Entomology 2000, 2002, 2004, 2006, 2008
Ent 871, Larval Insects Fall 1990, 1992, 1998 (2/3rds) Dr. C. W. Berisford
Ent 874, Immature Insects, 1996, 1998 with Dr. C. W. Berisford
Ent/Zoo 822, Stream Ecology co-taught with Dr. Judy Meyer, Spring 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997,
Ecol. 8220, Stream Ecology 1996, 1997,1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006 co-taught with Dr. Judy Meyer: 2007 by JBW: 2008, JBW and Alan Covich

Ent 400/600, Advanced General Insect Biology, Fall 1989, 1990, 1991, 1992, 1993, 1994, 1995 Ent 800, Entomology Seminar, Winter 1997, Spring 1997

Ent 800, Entomology Seminar, Winter 1997, Spring 1997
Bio 350 (Ecology)- Guest Lectures in Stream Ecology Winter & Spg. Qtrs 1993, 1994

Guest Lectures

Ent 400-600 - 4 guest lectures - Fall 1998
Ent 400-600, Advanced General Insect Biology - 5 hours Lectures, Fall 1996
Ecol 800, Topics in Modern Ecology - 2 hours Lectures, Fall 1996, 1997
Ecology 8000 - Guest lecture 1998
Ent. 400-600 Fall 1996 - 2 guest lectures, Fall 1996
Ent. 650 - Insect Ecology - 1 guest lecture, Spring 1996
Conservation Ecology Seminar Series 2002, 2004, 2005

Previously taught

Ent 494-694 - Every other spring from 1968 to 1987
Ent 325, General Entomology (1968 to 1985)
Ent 374, Agr. Ent. Summers 1971, 1972
Ent 401/601, Insect Taxonomy (1/3 - Larval Systematics & Biology) (1975-1980)
Bio 200, Biological Topics of Social Interest
Stream Ecology (1980 - University of Lund, Sweden - with R. Petersen)
Aquatic Insects - University of Iowa, Iowa Lakeside Biological Station, Summer 1977)

Master's theses directed:

W. R. Woodall, 1969, A. E. Gordon, 1970, F. F. Sherberger, 1970, H. W. Howard, 1975, J. B. Brown, 1976, D. M. Malas, 1976, M. D. Cudney, 1979, J. D. Haefner, 1980, Joe O'Hop, 1981, M. Freeman, 1982, D. Vogel, 1984, G. A. Schurr, 1989, M. R. Whiles, 1991, A. Marcilio, 1993, E. Houston 1993, D. Wohl 1994, M. K. Stone 1995, S. Baer 1995, Angela Romito – 2008 E. Rosi 1997, S. Lachnicht 1997, Andy Willats 1998; Eric Romaniszyn 1999, Allison Roy 1999, Heidi Wilcox 2003, Damon Ely 2005, (and the following as Comajor advisor): S. Stibbe 1995, G. Plague 1995)

Doctoral dissertations directed

W. R. Woodall, 1972, S. D. Caldwell, 1973, F. F. Sherberger, 1974, M. E. Gurtz, 1981, D. H. Ross, 1981, T. J. Georgian, Jr., 1981 (Ecology Deg. Prog.), T. F. Cuffney, 1984, A. D. Huryn, 1986, F. Smith-Cuffney, 1987, G. J. Lugthart, 1991, K. Chung, 1992, J.W. Grubaugh 1994 (Ecology), M.R. Whiles 1995 (Ecology), John Hutchens 2000 (Ecology), Brent Johnson 2002 (Entomology), Sue Eggert 2003 (Ecology), Wyatt Cross 2004 (Ecology), Erica Chiao (Entomology) 2005

Other M.S. and Ph.D. committee service (Since 1980): Chris Anderson – Ph.D Ecology 2006, Chris Asaro - Ph. D. Entomology 2001, Michelle Bailey, MS Consevation Biology 1996; Ph.D. Ecology 2000, J. Blair, Ph.D. Entomology 1987; J. Barrett, Ph.D. Ecology 1989; J. Benstead, Ph.D. Ecology 2000, Amy Braccia M.S. Entomology 2000; M. Bundy, Ph.D. Ecology 1994; L. Callaham, M.S. Entomology 1990; L. Carlough, M.S. Zoology 1987, Ph.D. Ecology 1990; G. Cowie, M.S. Zoology 1986; C. Couch, Ph.D. Ecology 1994; M.T. Crocker, M.S. Zoology 1986; J. Costa, Ph.D Entomology 1992; S. Davis, M.S. Conservation Biology (2000), R. T. Edwards, Ph.D. Ecology 1985; Sally Entrekin, M.S. Entomology 2000, Chris Fettig, Ph.D. Entomology 2000, M.G. Flood, M.S. Forest Resources 1987; Juanita Forrester - M.S. Entomology (2003), M. C. Freeman, Ph.D. Ecology 1990; J. Freilich, Ph.D.Entomology 1990; C. Gibson, M.S. Forestry (2000), Effie Greathouse - Ph.D. Ecology (2004), Jennifer Greenwood - Ph.D. Ecology 2004, Brian Gregory, MS Conservation Biology, 1996; S. Haggerty, M.S. Entomology (2000), R.O. Hall, Ph.D. Ecology 1996; W. B. Hargrove, Ph.D. Ecology 1988; Chris Hunter-Devinney, MS Conservation Biology, 1996; R. B. Klaper, M.S. Entomology 1995; J. Little, M.S. Forestry 1999, James March, Ph.D. Ecology 2000, Gerold Morrison, Ph.D. Entomology 1984; N. L. Munn, Ph.D. Ecology, 1989; E. C. O'Doherty, M.S. Zoology 1982, Ph.D. Ecology 1988; J. Overmyer, Ph.D. Entomology 2002, R. W. Parmelee, M.S. Entomology 1985; M. J. Paul, Ph.D. Ecology 1998, D. G. Perlmutter, Ph.D. Ecology 1988; G. Plague Ph.D. Entomology 2000, W.M. Pulliam, Ph.D. Ecology 1991; Dorota Porazinska, M.S. Conservation Ecology 1994; Emma Rosi-Marshall, Ph.D. 2002 Ecology, Alonso Remirez. M.S. Conservation Biology, 1997; Alonso Remirez Ph.D. Ecology 2000, B.F. Reynolds, M.S. Entomology 1995, Angela Romito, MS Entomology 2008, Allison Roy - Ph.D. Ecology (2004), Diane Sanzone - Ph.D. Ecology 2001, Kate Schofield - Ph.D. Ecology 2001, S. A. Schoenberg, Ph.D. Ecology 1986; Aaron Shurtleff, M.S. Entomology 2000, T. Thom, M.S. Conservation Biology 2000, P. Vila, Ph.D. Ecology 1996; Carlos Flechtmann -Ph. D. Entomology 1998; Andrew Thompson - M.S. Forest Resources 1998 Others (Current) Cindy Tant – Ph.D. Ecology John Davis – Ph.D. Ecology – (committee member)

University:

University Council, 1976, 1977, 1978; University Review Committee for Promotion and Tenure (Life Sciences 1995-96, 1996-97, 1997-98)

Graduate School:

External Review Committee, Department of Microbiology, 1984. Committee to Review Candidates for Presidential Fellowships 2003

Division and College:

Rec. Areas and Public Health (Div. Entomol. Agr.), 1973, Interdisciplinary Ecology Degree Committee, 1974, Acting Graduate Coordinator: Interdisciplinary Ecology Degree Committee, December-March 1979. Dean's Promotion Review committee for Biol. Sci. (chairman), 1982. Promotion Committee for Biol. Sci., 1983. Committee to construct new by-laws for Ecology Degree Program, 1986. Division of Entomology College of Agriculture, Committee to select candidate for insect geneticist position, (Chairman) 1987. Institute of Ecology, Committee to Study Membership, 1987. Institute of Ecology, Graduate Admissions, 1987-1988. Division of Biological Sciences, Graduate Faculty Review Committee, Appointments and reappointments to the graduate faculty, 1989-93. College of Agriculture and Environmental Sciences. Promotion and Tenure Committee 2005, 2006.

Department:

Associate Curator of Museum (immature insects), 1969-1992. Graduate Student Progress Committee, 1969-1972 (Chairman, 1972), 1989, 90, 91, 92. P. W. Fattig Scholarship Selection Committee, 1969, 1972. Museum Advisory Committee, 1970-present. Evaluation of Teaching Quality, 1972-1980. Graduate Admissions Committee, 1972-1980, 1988-1991 (Chairman). Interdisciplinary Degree Committee, 1974-1977 (Ecology). Departmental Advisory Committee, 1974-1979, 1987. Graduate Admissions, 1974-1979, 1988, 1989 (Ecology). 25th Anniversary Celebration Committee (Dept. Entomology) Seminar Chairman, 1982. Chairman, Committee to Construct Procedures for Implementation of Written Qualifying Exam for Graduate Students. Curriculum Review Committee, Chairman, 1985-1987. Acting Graduate Coordinator, 1988. Graduate Coordinator, 1989-1991 for Entomology. Teaching Evaluation Committee, 1991-93. Department of Entomology, Executive Committee, 1990-1993 (Chairman 92-93). Department of Entomology, Committee to select candidate for insect systematist position (1994), Institute of Ecology (Promotion and Tenure Committee 1994-95, Chair 1995-96, 1997 Peer Review of Teaching (Entomology), 1998 Chair, Peer Review of Teaching (Entomology), 1998 Promotion and Tenure Committee Member (Ecology), 2004-6 Chair Peer Review of Teaching Committee (Entomology)