

CURRICULUM VITAE

NAME J. Bruce Wallace

DATE 2010

DEPARTMENT Entomology/Ecology

PRESENT RANK 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
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-PI'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 Watersheds, 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 Watersheds, 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.
2. 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 autumnalis*. *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. In: 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: *Sphagina 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. In: 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 net-spinning 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: Siphonuridae). 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. In: 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 hydroptychidae (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. In: 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*).
71. *Anderson, N. H. and J. B. Wallace. 1984. Habitat, life history and behavioral adaptations of aquatic insects, Chap. 5, pp. 74-114. In: 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.

78. Cuffney, T. F., J. B. Wallace, and J. R. Webster. 1985. Pesticide manipulation of a headwater stream: invertebrate responses and their significance for ecosystem processes. *Freshwater Inv. Biol.* 3: 153-171.
79. Wallace, J. B. and J. R. O'Hop. 1985. Life on a fast pad: biology, production and impact of water lily leaf beetle grazing on water lily. *Ecology* 66: 1534-1544.
80. Huryn, A. D. and J. B. Wallace. 1985. Life history and production of *Goerita semata* Ross (Trichoptera: Limnephilidae) in the southern Appalachian mountains. *Can. J. Zool.* 63: 2604-2611.
81. Huryn, A. D. and J. B. Wallace. 1986. A method for obtaining *in situ* growth rates of larval Chironomidae (Diptera) and its application to secondary production estimates. *Limnology and Oceanography* 31: 216-222.
82. Wallace, J. B. and M. E. Gurtz. 1986. Response of *Baetis* mayflies (Ephemeroptera) to catchment logging. *Amer. Midl. Natur.* 115: 25-41.
83. Wallace, J. B., D. S. Vogel, and T. F. Cuffney. 1986. Recovery of a headwater stream from an insecticide-induced community disturbance. *J. N. Amer. Benthol. Soc.* 5: 115-126.
84. Thorp, J. H., J. B. Wallace, and T. J. Georgian. 1986. Untangling the web of caddisfly evolution and distribution. *Oikos* 47: 253-256.
85. Gurtz, M. E. and J. B. Wallace. 1986. Substrate-production relationships in net-spinning caddisflies (Trichoptera) in disturbed and undisturbed hardwood catchments. *J. N. Amer. Benthol. Soc.* 5: 230-336.
86. Smith-Cuffney, F. and J. B. Wallace. 1987. The influence of microhabitat on availability of drifting invertebrate prey to a net-spinning caddisfly. *Freshwater Biol.* 17: 91-98.
87. Wallace, J. B., T. F. Cuffney, C. C. Lay, and D. S. Vogel. 1987. The influence of an ecosystem-level manipulation on prey consumption by a lotic dragonfly. *Can. J. Zool.* 65: 35-40.
88. Wallace, J. B., A. C. Benke, A. H. Lingle, and K. Parsons. 1987. Trophic pathways of macroinvertebrate primary consumers in subtropical blackwater streams. *Arch. Hydrobiol. Monogr. Suppl.* 74: 423-451.
89. *Wallace, J. B. 1987. Aquatic invertebrate research at Coweeta, pp. 257-268, In: W. T. Swank and D. A. Crossley (eds.), *Forest Hydrology and Ecology at Coweeta*. Springer-Verlag, New York, NY.
90. Huryn, A. D. and J. B. Wallace. 1987. Local geomorphology as a determinant of macrofaunal production in a mountain stream. *Ecology* 68: 1932-1942.
91. Cuffney, T. F. and J. B. Wallace. 1987. Leaf litter processing in Coastal Plain streams and floodplains of southeastern Georgia, U.S.A. *Arch. Hydrobiol. Monogr. Suppl.* 76: 1-24.
92. Huryn, A. D. and J. B. Wallace. 1987. Production and litter processing by crayfish in an Appalachian Mountain Stream. *Freshwater Biol.* 18: 277-286.
93. Huryn, A. D. and J. B. Wallace. 1987. The exopterygote insect community structure of a mountain stream in North Carolina, U.S.A.: Life histories, production, and functional structure. *Aquatic Insects* 9: 229-251.
94. Huryn, A. D. and J. B. Wallace. 1988. Community structure of Trichoptera in a mountain stream: spatial patterns of production. *Freshwater Biol.* 20: 144-155.
95. Cuffney, T. F. and J. B. Wallace. 1988. Particulate organic matter export from headwater streams: discrete versus continuous measurements. *Can. J. Fish. Aquat. Sci.* 45: 2010-2016.

96. Wallace, J. B., M. E. Gurtz, and F. Smith-Cuffney. 1988. Long-term comparisons of insect abundances in disturbed and undisturbed Appalachian headwater streams. *Verh. Internat. Verein. Limnol.* 23: 1224-1231.
97. Resh, V. H., A. V. Brown, A. P. Covich, M. E. Gurtz, H. W. Li, G. W. Minshall, S. W. Reice, A. L. Sheldon, J. B. Wallace, R. C. Wissmar. 1988. The role of disturbance theory in stream ecology. *J. N. Amer. Benthol. Soc.* 7: 433-455.
98. Wallace, J. B., G. J. Lughart, T. F. Cuffney, and G. A. Schurr. 1989. The influence of repeated insecticidal treatments on drift and benthos of a headwater stream. *Hydrobiologia* 179: 135-147.
99. Otto, C. and J. B. Wallace. 1989. Life cycle variation and habitat longevity in waterlily leaf beetles. *Holarctic Ecol.* 12: 144-151.
100. Cuffney, T. F. and J. B. Wallace. 1989. Discharge-export relationships in headwater streams: influence of invertebrate manipulations and drought. *J. N. Amer. Benthol. Soc.* 8: 331-341.
101. Wallace, J. B. 1989. The structure and function of freshwater ecosystems: assessing the impact of pesticides. pp. 4-17, In: J. R. Voshell (ed.) *Using mesocosms to assess the aquatic ecological risks of pesticides: theory and practice.* Misc. Publ. No. 75. Entomol. Soc. Amer.
102. Cuffney, T. F., J. B. Wallace, and G. J. Lughart. 1990. Experimental evidence quantifying the role of benthic invertebrates in organic matter dynamics of headwater streams. *Freshwater Biol.* 23: 281-299.
103. Benke, A. C. and J. B. Wallace. 1990. Wood dynamics in Coastal Plain blackwater streams. *Can. J. Fish. Aquat. Sci.* 47: 92-99.
104. *Wallace, J. B. 1990. Recovery of lotic macroinvertebrate communities from disturbance. *J. Environ. Mgmt.* 14: 605-620.
105. Lughart, G. J., J. B. Wallace, and A. D. Huryn. 1990. Secondary production of chironomid communities in insecticide-treated and untreated headwater streams. *Freshwater Biol.* 24: 417-427.
106. Wallace, J. B., T. F. Cuffney, B. S. Goldowitz, K. Chung, and G. J. Lughart. 1991. Long-term studies of the influence of invertebrate manipulations and drought on particulate organic matter export from headwater streams. *Verh. Internat. Verein. Limnol.* 24: 1676-1680.
107. Wallace, J. B., A. D. Huryn, and G. J. Lughart. 1991. Colonization of a headwater stream during three years of seasonal insecticidal applications. *Hydrobiologia* 211: 65-76.
108. Wallace, J. B., T. F. Cuffney, J. R. Webster, G. J. Lughart, K. Chung, and B. S. Goldowitz. 1991. A five-year study of export of fine particulate organic matter from headwater streams: effects of season, extreme discharge, and invertebrate manipulation. *Limnol. Oceanogr.* 36: 670-682.
109. Wallace, J. B. 1991. President's Message. *Bull. N. Amer. Benthol. Soc.* 8(2):179-180.
110. *Webster, J. R., S. W. Golladay, E. F. Benfield, J. L. Meyer, W. T. Swank, and J. B. Wallace. 1992. Catchment disturbance and stream response: an overview of research at Coweeta Hydrologic Laboratory. Pp. 231-253, In: P. J. Boon, P. Calow, and G. E. Petts (eds.). *River Conservation and Management*, John Wiley and Sons, Chichester.
111. *Wallace, J. B., J. R. Webster, and R. L. Lowe. 1992. High-gradient streams of the Appalachians. pp. 133-190, In: *Biodiversity of Southeastern United States/Aquatic Communities.* C.T. Hackney, S. Marshall Adams, and W.A. Martin (eds.) John Wiley & Sons, Philadelphia.
112. Lughart, J.G. and J.B. Wallace. 1992. Effects of disturbance on benthic functional structure and production

in mountain streams. J. N. Am. Benthol. Soc. 11:138-164.

113. Suberkropp, K. and J.B. Wallace. 1992. Aquatic hyphomycetes in insecticide-treated and untreated streams. J. N. Am. Benthol. Soc. 11:165-171.
114. Wallace, J.B. 1992. Presidential Address: The NABS at age 40: reflections on our science. Bull. N. Am. Benthol. Soc. 9(2): 218-228.
115. Whiles, M.R. and J.B. Wallace. 1992. First-year benthic recovery of a headwater stream following an insecticide-induced disturbance. Freshwater Biology 28:81-91.
116. Chung, K, J.B. Wallace, and J.W. Grubaugh. 1993. The impact of insecticide treatment on abundance, biomass, and production of litterbag fauna in a headwater stream: a study of pretreatment, treatment, and recovery. Limnologia 23:93-106.
117. Wallace, J.B., M.R. Whiles, J.R. Webster, T.F. Cuffney, and K. Chung. 1993. Dynamics of inorganic particles in headwater streams: linkages with invertebrates. J. N. Amer. Benthol. Soc. 12:112-125.
118. Whiles, M.R., J.B. Wallace and K. Chung. 1993. The influence of *Lepidostoma* spp. (Trichoptera: Lepidostomatidae) on recovery of leaf- litter processing in disturbed headwater streams. Amer. Midl. Nat. 130: 356-363.
- 119.*Webster, J.R., J. B. Wallace, and E.F. Benfield. 1995. Organic processes in streams of the eastern United States. Pages 103-164 in C.E. Cushing, G.W. Minshall, and K.W. Cummins (editors). River and stream ecosystems (Ecosystems of the World, vol. 22). Elsevier Science, Amsterdam.
120. Grubaugh, J.W., and J. B. Wallace. 1995. Functional structure and production of the benthic community in a Piedmont river: 1956-57 and 1991-92. Limnology and Oceanography 40: 490-501.
121. Wallace, J. B., M. R. Whiles, S. Eggert, T.F. Cuffney, G.J. Lugthart, and K. Chung. 1995. Long-term dynamics of coarse particulate organic matter in three Appalachian Mountain streams. J. North Am. Benthol. Soc. 14: 217-232.
122. Wohl, D. L., J. B. Wallace, and J.L. Meyer. 1995. Benthic macroinvertebrate community structure, function and production with respect to habitat type, reach and drainage basin in the southern Appalachians (USA). Freshwater Biol. 34: 447-464.
123. Wallace, J.B., J.R. Webster, and J.L. Meyer. 1995. The influence of log additions on physical and biotic characteristics of a mountain stream. Can. J. Fish. Aquat. Sci. 52: 2120-2137.
124. Whiles, M.R. and J. B. Wallace. 1995. Macroinvertebrate production in a headwater stream during recovery from anthropogenic disturbance and hydrologic extreme. Can. J. Fish. Aquat. Sci. 52: 2402-2422.
125. Grubaugh, J.W., J.B. Wallace, and E.S. Houston. 1996. Longitudinal changes of macroinvertebrate communities along an Appalachian stream continuum. Can. J. Fish. Aquat. Sci. 53: 896-909.
126. Wallace, J.B., J. W. Grubaugh and M. R. Whiles. 1996. Biotic indices and stream ecosystem processes: results from an experimental study. Ecol. Appl. 6: 140-141.
- 127.*Wallace, J.B., and N. H. Anderson. 1996. Habitat, life history, and behavioral adaptations of aquatic insects. Chapter 5, pp. 41-73, in R.W. Merritt and K. W. Cummins (editors). An Introduction to the Aquatic Insects of North America. 3rd edition. Kendall/Hunt, Dubuque, Iowa.

Review of Entomology 41:115-139.

- 129.*Wallace, J.B., and J.W. Grubaugh. 1996. Transport and storage of FPOM. Chp. 10, pp. 191-215, *In*: F. R. Hauer and G. A. Lamberti (eds.), *Methods in Stream Ecology*. Academic Press, San Diego, CA.
- 130.*Wallace, J. B., J.W. Grubaugh, and M.R. Whiles. 1996. Influence of large woody debris on stream habitats and invertebrate biodiversity. pp. 119-129, *In*: J. W. McMinn and D.A. Crossley (editors) *Biodiversity and coarse woody debris in southern forests*. U.S.D.A., Forest Service, Southern Research Station Gen. Tech. Rept. SE-94 Asheville, NC.
131. Wallace, J. B., T. F. Cuffney, S. L. Eggert, and M. R. Whiles. 1997. Stream organic matter inputs, storage, and export for Satellite Branch at Coweeta Hydrologic Laboratory, North Carolina, USA. pp. 67-74 *In*: J. R. Webster, J. L. Meyer (eds.) *Stream Organic matter budgets*. *Journal of the North American Benthological Society* 16:3-161.
132. Webster, J. R., J. L. Meyer, J. B. Wallace, and E. F. Benfield. 1997. Organic matter dynamics in Hugh White Creek, Coweeta Hydrologic Laboratory, North Carolina, USA. pp. 74-78 *In*: J. R. Webster, J. L. Meyer (eds.) *Stream Organic matter budgets*. *Journal of the North American Benthological Society* 16:3-161.
133. Meyer, J. L., A. C. Benke, R. T. Edwards, and J. B. Wallace. 1997. Organic matter dynamics in the Ogeechee River, a blackwater river in Georgia, USA. pp. 82-87 *In*: J. R. Webster, J. L. Meyer (eds.) *Stream Organic matter budgets*. *Journal of the North American Benthological Society* 16:3-161.
134. Benke, A. C. and J. B. Wallace. 1997. Trophic basis of production among riverine caddisflies: implications for food web analysis. *Ecology* 78: 1132-1145.
135. Grubaugh, J. W., J. B. Wallace, and L. S. Houston. 1997. Production of benthic macroinvertebrate communities along a southern Appalachian river continuum. *Freshwater Biology* 37: 581-596.
136. Wallace, J. B., S. L. Eggert, J. L. Meyer, and J. R. Webster. 1997. Multiple trophic levels of a forest stream linked to terrestrial litter inputs. *Science* 277: 102-104.
137. Whiles, M. R., and J. B. Wallace. 1997. Leaf litter decomposition and macroinvertebrate communities in headwater streams draining pine and hardwood catchments. *Hydrobiologia*. 353: 107-119.
138. Plague, G. R., J. B. Wallace, and J. W. Grubaugh. 1998. Linkages between trophic variability and distribution of *Pteronarcys* spp. (Plecoptera: Pteronarcyidae) along a stream continuum. *American Midland Naturalist*. 139: 224-234.
139. Stone, M. K., and J. B. Wallace. 1998. Long-term recovery of a mountain stream from clear-cut logging: the effects of forest succession on benthic invertebrate community structure. *Freshwater Biology* 39: 141-169.
140. Meyer, J. L., J. B. Wallace, and S. L. Eggert. 1998. Leaf litter as a source of dissolved organic carbon in streams. *Ecosystems*. 1:240-249.
141. Hutchens, J. J. Jr., K. Chung, and J. B. Wallace. 1998. Temporal variability of stream macroinvertebrate abundance and biomass following pesticide disturbance. *J. N. Amer. Benthol. Soc.* 17: 518-534.
142. Wallace, J. B., S. L. Eggert, J. L. Meyer, and J. R. Webster. 1999. Effects of resource limitation on a detrital-based ecosystem. *Ecological Monographs* 69: 409-442.
143. Benke, A. C., A. H. Huryn, L. A. Smock, and J. B. Wallace. 1999. Length-mass relationships for freshwater macroinvertebrates in North America with particular reference to the southeastern United States. *J. N.*

Amer. Benthol. Soc. 18: 308-343.

144. Wallace, J. B., S. L. Eggert, J. L. Meyer, and J. R. Webster. 1999. Effects of resource limitation on a detrital-based ecosystem. *Ecol. Monogr.* 69(4):409-442.
145. Hury, A. D., and J. B. Wallace. 2000. Life history and production of stream insects. *Annual Review of Entomology* 45: 81-108.
146. Wallace, J. B. and J. J. Hutchens. 2000. Effects of invertebrates in lotic ecosystem processes. pp. 73-96 *In*: D. C. Coleman and P. F. Hendrix (eds.) *Invertebrates as Webmasters in Ecosystems*. CABI Publishing, Oxon, United Kingdom.
147. Hall, R. O., J. B. Wallace, and S. L. Eggert. 2000. Organic matter flow in stream food webs with reduced detrital resource base. *Ecology* 81: 3445-3463
150. Webster, J. R., J. L. Tank, J. B. Wallace, J. L. Meyer, S. L. Eggert, T. P. Ehrman, B. R. Ward, B. L. Bennett, P. F. Wagner, and M. E. McTammany. 2001. Effects of litter exclusion and wood removal on phosphorus and nitrogen retention in a forest stream. *Verh. Internat. Verein. Limnol.* 27: 1337-1340.
151. Wallace, J. B., J. R. Webster, S. L. Eggert, and J. L. Meyer. 2001. Small woody debris dynamics in a headwater stream. *Verh. Internat. Verein. Limnol.* 27: 1361-1365
152. Meyer, J.L. and J.B. Wallace. 2001. Lost linkages and lotic ecology: rediscovering small streams. Chp. 14, Pages 295-317. *In*: M. Press, N. Huntly and S. Levin (eds.) *Ecology: Achievement and Challenge*. Blackwell Science, Oxford, UK.
153. Siler, E.R., J.B. Wallace, and S.L. Eggert. 2001. Long-term effects of resource limitation on stream invertebrate drift. *Canadian Journal of Fisheries and Aquatic Sciences* 58:1624-1637.
154. Wallace, J. B., Webster, J.R., Eggert, S.L., Meyer, J.L., Siler, E. R. 2001. Large Woody debris in a headwater stream: long-term legacies of forest disturbance. *International Rev. Hydrobiology.* 86:501-513.
155. Benke, A. C., J. B. Wallace, J. W. Harrison, and J. W. Koebel. 2001. Food web quantification using secondary production analysis: predaceous invertebrates of snag habitats in a sub-tropical river. *Freshwater Biology* 46(3):329-346.
156. Baer, S. G., Siler, E. R., Eggert, S. L., and J. B. Wallace. 2001. Colonization and production of macroinvertebrates on artificial substrata: upstream-downstream responses to a leaf litter exclusion manipulation. *Freshwater Biology* 46(3): 347-367
157. Rosi-Marshall, E. and J. B. Wallace. 2002. Invertebrate food webs along a stream resource gradient. *Freshwater Biology* 47: 129-141.
158. Hutchens, J.J., and J.B. Wallace. 2002. Ecosystem linkages between southern Appalachian headwater streams and their banks: leaf litter breakdown and invertebrate assemblages. *Ecosystems* 5:80-91.
159. Johnson, Brent R. and J. Bruce Wallace. 2002. *In situ* Measurement of larval salamander growth using individuals marked with acrylic polymers. *Herpetological Review.* 33(1):29-32.
160. Cross, W.F, J.P. Benstead, A.D. Rosemond, and J.B. Wallace. 2003. Consumer-resource stoichiometry in detritus-based streams. *Ecology Letters* 6:721-732.

161. Roy, A.H., A.D. Rosemond, M.J. Paul, D.S. Leigh, and J.B. Wallace. 2003. Stream macroinvertebrate response to catchment urbanisation (Georgia, U.S.A.). *Freshwater Biology* 48:329-346.
162. Eggert, S. L. and J. B. Wallace. 2003. Litter breakdown and invertebrate detritivores in a resource-depleted Appalachian stream. *Arch. Hydrobiol.* 156 (3): 315-338.
163. Chiao, E. and J. B. Wallace. 2003 (2004). Bioassessment metrics and deposited sediments in tributaries of the Chattooga River watershed (USA: GA, NC, SC). Proceedings of the 2003 Georgia Water Resources (4 pp.) <http://gwri.ce.gatech.edu/GAConf/Proceedings/Proceedings.php?CallingPage=GAConfProceedings&ContentURL=./2003/TOC.htm>
164. Roy, A. H., A. D. Rosemond, M. J. Paul, D. S. Leigh, and J. B. Wallace. 2003. Habitat-specific responses of stream insects to land cover disturbance: biological consequences and monitoring implications. *J. N. Amer. Benthol. Soc.* 22(2): 292-307.
165. Eggert, S. L. and J. B. Wallace. 2003. Reduced detrital resources limit *Pycnopsyche gentiles* (Trichoptera: Limnephilidae) production and growth. *J. N. Amer. Benthol. Soc.* 22 (3): 388-400.
166. Johnson, B. R., W. F. Cross, and J. B. Wallace. 2003. Long-term resource limitation reduces insect detritivore growth in a headwater stream. *J. N. Am. Benthol. Soc.* 22 (4): 566-574.
167. Merritt, R. W. and J. B. Wallace. 2003. Aquatic Habitats, pp. 45-57. *In* V. H. Resh and Ring T. Cardé (eds.) *Encyclopedia of Insects*. Academic Press, San Diego. 1266p.
168. Benke, A. C., and J. B. Wallace. 2003. Influence of wood on invertebrate communities in streams and rivers, pgs. 149-177, *In* S.V. Gregory, K.L. Boyer, and A. M. Gurnell, editors. *The Ecology and Management of Wood in World Rivers*. American Fisheries Society, Symposium 37, Bethesda, Maryland.
169. Hutchens, J. J., J. B. Wallace, and E. D. Romaniszyn. 2004. Role of Podostemum ceratophyllum Michx. in structuring benthic macroinvertebrate assemblages in southern Appalachian river. *J. N. Am. Benthol. Soc.* 23:713-727.
170. Fisher, A., L. Appel, F. R. Johnson, C. Rogers, W. Swietlik, and J. B. Wallace. 2004. Valuing Ecological Resources, Chp. 6, pp.113 - 139, *In*: Ecological Assessment of Aquatic Resources: Linking Science to Decision Making. M. T. Barbour, S. B. Norton, H. R. Preston, and K. W. Thornton, (Eds.) SETAC Press, Pensacola, Florida. 248 p.
171. Wilcox, H.S., J.B. Wallace, J.L. Meyer, and J.P. Benstead. 2005. Effects of labile carbon addition on a headwater stream food web. *Limnology and Oceanography* 50:1300-1312.
172. Johnson, B. R., and J. B. Wallace. 2005. Bottom-up limitation of a stream salamander in a detritus-based food web. *Can. J. Fish. Aquat. Sci.* 62: 301-311.
173. Cross, W.F., B.R. Johnson, J. B. Wallace, and A. D. Rosemond. 2005. Constrasting response of stream detritivores to long-term nutrient enrichment. *Limnology and Oceanography* 50: 1730-1739.
174. Cross, W. F., A. D. Rosemond, J. B. Benstead, S. L. Eggert, and J. B. Wallace. 2006. Differential Effects of Consumers on C, N, and P Dynamics: Insights from Long-term Research. Chp. 5.4 pgs. 235-247. Eds. de Ruiters, P.C., V. Wolters, and J. C. Moore. *Dynamic Food Webs*. Elsevier, San Diego.
175. Wallace, J. B., J. J. Hutchens, Jr., and J. W. Grubaugh. 2006. Transport and Storage of FPOM, Chp. 12, in Hauer and Lamberti. *Methods in Stream Ecology*, second edition.

176. Cross, W. F., J. B. Wallace, A. D. Rosemond, and S. L. Eggert. 2006. Whole-system nutrient enrichment increases secondary production in a detritus-based ecosystem. *Ecology* 87: 1556-1565.
177. Johnson, B.R., J. B. Wallace, A. D. Rosemond, and W. F. Cross. 2006. Larval salamander growth responds to enrichment of a nutrient poor headwater stream. *Hydrobiologia* 573: 227-232.
178. Entrekin, S.A., J. B. Wallace, and S.L. Eggert. 2007. The response of Chironomidae (Diptera) to a long-term exclusion of terrestrial organic matter. *Hydrobiologia* 575: 401-413.
179. Romaniszyn, E. D., J. J. Hutchens, and J. B. Wallace. 2007. Aquatic and terrestrial invertebrate drift in southern Appalachian Mountain streams: implications for trout food resources. *Freshwater Biology* 52: 1-11.
180. Meyer, J.L., D. L. Strayer, J. B. Wallace, S. L. Eggert, G. S. Helfman, and N.E. Leonard. 2007. The contribution of headwater streams to biodiversity in river networks. *K. Amer. Water Resources Assoc.* 43: 86-103.
181. Greenwood, J. L., A.D. Rosemond, J. B. Wallace, W.F. Cross, and H.S. Weyers. 2007. Nutrients stimulate leaf breakdown rates and detritivore biomass: bottom-up effects via heterotrophic pathways. *Oecologia (Berlin)* 151: 637-649.
182. Eggert, S.L., and J. B. Wallace. 2007. Wood biofilm as a food resource for stream detritivores. *Limnology and Oceanography* 52: 1239-1245.
183. Cross, W. F., J. B. Wallace, and A. D. Rosemond. 2007. Nutrient enrichment reduces constraints on material flows in a detritus-based food web. *Ecology* 88: 2563-2575.
184. Huryn, A. D., J. B. Wallace, and N. H. Anderson. 2008. Habitat, Life History, Secondary Production, and Behavioral Adaptations of Aquatic Insects, Chapter 5, pp. 50-105, In: R. W. Merritt, K. Cummins, and M.B.Berg. *Aquatic Insects of North America*, 4th Edition, Kendall-Hunt Dubque Iowa.
185. Rosemond, A. D., W. F. Cross, J. L. Greenwood, S. L. Eggert, K. Suberkropp, J. B. Wallace, and S. E. Dye. 2008. Nitrogen versus phosphorus demand in a detritus-based headwater stream: what drives microbial to ecosystem response? *Verh. Internat. Verein. Limnol.* Vol. 30; Pt 4, 651-655.
186. Benstead, J. P., A. D. Rosemond, W.F. Cross, J. B. Wallace, S. L. Eggert, K. Suberkropp, V. Gulis, J. L. Greenwood, and C. J. Tant. 2009. Nutrient enrichment alters storage and fluxes of detritus in a headwater stream ecosystem. *Ecology* 90: 2556-2566.
187. Wallace J B. and Eggert S L. 2009. Benthic Invertebrate Fauna, Small Streams. In: Gene E. Likens, (Editor) *Encyclopedia of Inland Waters*. Volume 2, pp. 173-190 Oxford: Elsevier Publ. Company. The Netherlands.
188. Wallace, J. B., and S. L. Eggert. 2009. Terrestrial and longitudinal linkages of headwater streams. In *Canaan Valley and its Environs: A Landscape Heritage Celebration*. Canaan Valley Institute, Davis, West Virginia. http://www.canaanvi.org/canaanvi_web/uploadedFiles/Events/Past_Events/Wallace%20&%20Eggert%20Paper.pdf
189. Davis, J.M., A. D. Rosemond, S. L. Eggert, W.F. Cross, and J. B. Wallace. 2009. Long-term nutrient enrichment decouples predator and prey production. *Proc. Nat. Acad. Sci. (USA)*. 107(1): 121-126
190. Romito, A. M., S. L. Eggert, J. M. Dietz, and J. B. Wallace. 2010. Effects of seasonality and resource limitation on the turnover of organic matter by Chironomidae (Diptera) in a southern Appalachian stream.

Limnology and Oceanography 53: 1083-1092.

191. Ely, D. T. and J. B. Wallace. 2010. Long-term functional group recovery of lotic macroinvertebrates from logging disturbance. *Can. J. Fish. Aquat. Sci.* 67: In press.
192. Davis, J. M., A. D. Rosemond, S. L. Eggert, W. F. Cross, and J. B. Wallace. 2010. Nutrient enrichment differentially affects body sizes of primary consumers and predators in a detritus-based stream. *Limnol. Oceanogr.* (submitted, in revision)
193. Wallace, J. B., and D. Ely. In press. Long-term response of benthic invertebrates to clear-cutting . Chp. 7, In: *Response of a Forest Watershed Ecosystem: Commercial Clearcutting in the Southern Appalachian Mountains.* W.T. Swank and J. R. Webster (Eds). Springer-Verlag

Book Reviews:

- Wallace, J. B. 1985. Ecology of aquatic insects by V. H. Resh and D. M. Rosenberg (eds.). *Quarterly Review of Biol.* (Book Review) 60: 101.
- Wallace, J. B. 1988. The Mayflies of Florida (revised edition) by L. Berner and M. L. Pescador. *J. Entomol. Sci.* 23: 234.
- Wallace, J. B. Nymphs of North American Stonefly Genera by K. W. Stewart and B. P. Stark. 1991. *J. N. Amer. Benthol. Soc.* 10: 223-224.
- Rosemond, A. D., and J. B. Wallace. 1995. Stream Ecology by David Allan. *Limnology and Oceanography* 40: 1535-36.

Other Awards and/or Special Service:

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

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 U.S.E.P.A., Duluth, MN, 1988 (Invitational Talk).

North American Benthological Society, Cincinnati, OH, 1974 J. 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. Grubaugh 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. Entekin; 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.

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

"Coweeta Rainbows" 75th Anniversary Celebration of the Coweeta Hydrologic Laboratory, Dillard House, Dillard, GA. Nov. 2-3, 2009

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, Shepardsstown, 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, Årthus, 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
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 Co-major 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 Conservation 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. Callahan, 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 Ramirez. M.S. Conservation Biology, 1997; Alonso Ramirez 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; John Davis – Ph.D. Ecology – (committee member, former co-advisor) 2009; Others (Current) Cindy Tant – Ph.D. Ecology

UNIVERSITY SERVICE ACTIVITIES:

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 Chair of 3rd-yr review (for Joe McHugh), 1998 Promotion and Tenure Committee Member (Ecology), 2004-6 Chair Peer Review of Teaching Committee (Entomology)