



**Andrew L. Sheldon**  
(21 April 1938-25 November 2017)

**Scott A. Grubbs**

**Andrew “Andy” Lee Sheldon** passed away on 25 November, 2017 in Tallahassee, Florida of complications from surgery. Born in Northfield, Massachusetts on 21 April, 1938, he was the second child of Elinor and Lee Sheldon. He graduated from Colby College and completed his post-graduate studies in Zoology at Cornell University where he met his first wife, Susan Elaine York. They were married in 1963. They divorced in 1985. He worked as the resident biologist at the University of California’s research facility at Sagehen Creek Field Station where he completed his doctoral thesis. He then worked as a Research Associate at Resources for the Future, Inc. in Washington, D.C. for a couple of years where his son Gregory was born. The family moved to Florence, Montana in 1968 when he accepted a position in the Zoology department at The University of Montana. Following the birth of his second son, Matthew, the family moved to Missoula. Andy was a dedicated instructor and researcher specializing in fresh water insects, stream ecology, and fisheries. He particularly enjoyed teaching summer session courses at the Flathead Lake Biological Station at Yellow Bay where he shared

his passion for science and nature with numerous students. In 2003, he received the University of Montana Distinguished Teaching Award. His sabbatical studies took him to Oakridge, Tennessee; Suriname, Australia; Oxford, Mississippi; and Borneo. In 1990 he married Linda McCron Stover after they met through their mutual interest in cross country skiing, and they enjoyed 29 years together. Andy retired in 2003 and moved to the Florida Gulf coast where he continued his research on stoneflies in the mountains of the eastern seaboard, Nevada, and Montana. He was a skilled hunter and fisherman, and enjoyed paddling his solo canoe – most recently while visiting the lakes and ponds of central Maine. Shortly before his untimely passing, he and his collaborators published a comprehensive monograph encompassing more than 40 years of his stonefly studies in the Great Basin. His efforts to identify, map, and understand this important group of organisms led to the discovery of new species, of which six bear his name. Andy is survived by his wife Linda, sons Matt (Elizabeth) of Missoula and Greg of Emigrant, Montana; stepdaughters Merida Stover and Amanda Stover Savage (Jason), grandchildren Owen and Maelle Savage; sister Sally and brother Chris of Cherry Valley, Ohio. He was preceded in death by his parents and first wife.

Andy was remarkably active during his retirement years. I had the privilege of working with him on a 10-year study of the Plecoptera of the Talladega Mountain region of Alabama, a collaborative project on eastern Nearctic *Zapada* together with Richard W. Baumann. Most recently, we were only a few years in on a quantitative study on the fauna of the Black Mountains in western North Carolina. It soon became obvious that Andy had a passion for collecting and doing fieldwork in montane landscapes. He made special efforts to collect upstream off established trails, usually up steep slopes, to better assess elevation and stream size gradients. This behavior helped to set him apart from the modern cohort of North American stonefly workers, leading to collections of valuable material (e.g. *Zapada fumosa* Baumann & Grubbs, 2015 from Mount Rogers, Virginia) for biogeographic and systematic research with colleagues.

Below is a list of his scientific contributions on stoneflies and other aquatic insects. Andy had several manuscripts in various stages of development, including one on stonefly assemblages in drying streams of the Ouachita Mountains with Mel Warren Jr., three additional papers from our work in the Talladega Mountain region, and one on Montana *Zapada*. Andy was actively collaborating with Richard Bottorff and Richard Baumann on additional manuscripts on Nevada and Great Basin stoneflies. He was also writing and analyzing data on a collaborative long-term study of the fishes of Oswego Creek in upstate New York with Donald Stewart of SUNY-Syracuse.

#### **Andy Sheldon's publications on Plecoptera and other aquatic insects**

1. Sheldon, A.L. and S.G. Jewett, Jr. 1967. Stonefly emergence in a Sierra Nevada stream. *Pan-Pacific Entomologist*, 43:1–8.
2. Sheldon, A.L. 1969. Size relationships of *Acroneuria californica* (Perlidae, Plecoptera) and its prey. *Hydrobiologia*, 34:85–94.
3. Sheldon, A.L. 1972. Comparative ecology of *Arcynopteryx* and *Diura* (Plecoptera) in a California stream. *Archives für Hydrobiologie*, 69:521–546.
4. Sheldon, A.L. 1977. Colonization curves: application to stream insects on semi-natural substrates. *Oikos*, 28:256–261.

5. Sheldon, A.L. and M.W. Oswood. 1977. Blackfly (Diptera: Simuliidae) abundance in a lake outlet: test of a predictive model. *Hydrobiologia*, 56:113–120.
6. Sheldon, A.L. 1979. Stonefly (Plecoptera) records from the basin ranges of Nevada and Utah. *Great Basin Naturalist*, 39:289–292.
7. Sheldon, A.L. 1979. Zoogeography of the Great Basin: insects of mountain streams. *Yearbook of the American Philosophical Society*, 1978:215–216.
8. Sheldon, A.L. 1980. Coexistence of perlid stoneflies (Plecoptera): predictions from multivariate morphometrics. *Hydrobiologia*, 71:99–105.
9. Sheldon, A.L. 1980. Resource division by perlid stoneflies (Plecoptera) in a lake outlet ecosystem. *Hydrobiologia*, 71:155–161.
10. Sheldon, A.L. and R.A. Haick. 1981. Habitat selection and association of stream insects: a multivariate analysis. *Freshwater Biology*, 11:395–404.
11. Baumann, R.W. and A.L. Sheldon. 1984. *Capnia hornigi*, a new stonefly from the western Great Basin (Plecoptera: Capniidae). *Pan Pacific Entomologist*, 60:30–32.
12. Sheldon, A.L. 1984. Colonization dynamics of aquatic insects. Pp. 401–429. *In*: V.H. Resh and D. Rosenberg (eds.) *Ecology of Aquatic Insects: a Life History and Habitat Approach*. Praeger Publishing Co.
13. Sheldon, A.L. 1985. Perlid stoneflies (Plecoptera) in an Appalachian drainage: a multivariate approach to mapping stream communities. *American Midland Naturalist*, 113:334–342.
14. Perry, S.A. and A.L. Sheldon. 1986. Effects of exported seston on aquatic insect faunal similarity and species richness in lake outlet streams in Montana, USA. *Hydrobiologia*, 137:65–77.
15. Hughes, J.M., P.B. Mather, A.L. Sheldon and F.W. Allendorf. 1999. Genetic structure of the stonefly, *Yoraperla brevis*, populations: the extent of gene flow among adjacent montane streams. *Freshwater Biology*, 41:63–72.
16. Sheldon, A.L. 1999. Emergence patterns of large stoneflies (Plecoptera: *Pteronarcys*, *Calineuria*, *Hesperoperla*) in a Montana river. *Great Basin Naturalist*, 59:169–174.
17. Sheldon, A.L. 2008. Scale, hierarchy and perspectives in the ecology of Plecoptera. Pp. 15–38. *In*: F.R. Hauer, J.A. Stanford, and R. L. Newell (eds). *International Advances in the Ecology, Zoogeography and Systematics of Mayflies and Stoneflies*. University of California Press, Berkeley, California, USA.
18. Grubbs, S.A. and A.L. Sheldon. 2008. *Allocapnia muskogee* and *A. menawa*, new species of snowflies (Plecoptera: Capniidae) from the Talladega National Forest region of eastern Alabama, U.S.A., plus four new state records. *Illiesia*, 4:99–109.
19. Stark, B.P. and A.L. Sheldon. 2009. Records of Neoperlini (Plecoptera: Perlidae) from Brunei Darussalam and Sarawak, with descriptions of new *Phanoperla* Banks and *Neoperla* Needham species. *Illiesia*, 5:11–19.
20. Sheldon, A.L. and M.L. Warren. 2009. Filters and templates: stonefly (Plecoptera) richness in Ouachita Mountains streams, USA. *Freshwater Biology*, 54:943–956.
21. Sheldon, A.L. and G. Theischinger. 2009. Stoneflies (Plecoptera) in a tropical Australian stream: diversity, distribution and seasonality. *Illiesia*, 5:40–50.
22. Grubbs, S.A. and A.L. Sheldon. 2009. *Leuctra pinhoti*, a new species of stonefly (Plecoptera: Leuctridae) from Alabama, U.S.A. *Illiesia*, 5:195–198.
23. Sheldon, A.L. 2012. Possible climate-induced shift of stoneflies in a southern Appalachian catchment. *Freshwater Science*, 31:765–774.

24. Schultheis, A.S., J.Y. Booth, L.R. Perlmutter, J.E. Bond, and A.L. Sheldon. 2012. Phylogeography and species biogeography of montane Great Basin stoneflies. *Molecular Ecology*, 21:3325–3340.
25. Sheldon, A.L. and S.A. Grubbs. 2014. Distributional ecology of a rare, endemic stonefly. *Freshwater Science*, 33:1119–1126.
26. Arnaldi, K.G., A.M. Fenwick, A.L. Sheldon, and A.A. Slater. 2015. Contrasting patterns of population genetic structure in two Great Basin stoneflies. *Papers and Publications: Interdisciplinary Journal of Undergraduate Research*, 4:article 18.
27. Grubbs, S.A., R.W. Baumann, and A.L. Sheldon. 2015. A review of eastern Nearctic *Zapada* with a new species from the Great Smoky Mountains (Plecoptera, Nemouridae). *Freshwater Science*, 34:1312–1323.
28. Baumann, R.W., A.L. Sheldon, and R.L. Bottorff. 2017. Stoneflies (Plecoptera) of Nevada. *Monographs of the Western North American Naturalist*, 10:1–138.
29. Grubbs, S.A. and A.L. Sheldon. 2018. The stoneflies (Insecta, Plecoptera) of the Talladega Mountain region, Alabama, USA: distribution, elevation, endemism, and rarity patterns. *Biodiversity Data Journal*, 6:e22839.



**Dr. Andy Sheldon doing what he liked best, enjoying nature.**

**ENDOWMENT IN HONOR OF DR. ANDREW L. SHELDON**

The **Society for Freshwater Science** has established an Endowment called the **Andy Sheldon Fund for Field Ecology in Streams**. This fund will support students doing field based research in stream or community ecology and to attend Society of Freshwater Science meetings. Donations can be made directly <https://freshwater-science.org/news/in-drift-issue-30-winter-2018#Andy-Sheldon> or calling Society of Freshwater Services at 435-797-0421.

## MEMBER NEWS

### CALL FOR MATERIAL

Dear Colleagues, during my continuing revision of the African *Neoperla* (Perlidae) all surviving types of the 30 nominal species named between 1839 and 1936 plus collections in major museums in Europe and North America have by now been studied. More than 50 species are presently known to me. However, because the Ethiopian Region is large and incompletely sampled, even small additional collections may add significantly to present knowledge.

Identification of *Neoperla* species requires dissection and study of inner genitalia and eggs. Both pinned material and specimens in fluid preservatives are suitable for study. Larvae can presently not be identified.

Should you have adults of African *Neoperla* and be willing to let me study your material, please contact me at [pleco-p.zwick@t-online.de](mailto:pleco-p.zwick@t-online.de), to discuss details and arrange a loan.

Thank you in advance!

**Peter Zwick**

### **The Plecoptera Collection of Dietrich Braasch (1931-2016) transferred to the Museum für Naturkunde, Berlin**

**Peter Zwick**

The Plecoptera were one of several orders of aquatic insects that interested Dietrich Braasch. His work in eastern and central Germany was initiated before pollution-sensitive water insects had been largely wiped out. Several species that once occurred in Germany – Dietrich Braasch had still seen some of them. The faunistic work of Dietrich Braasch in East Germany, mainly in Brandenburg and Saxony, is important today, e.g. the article by Küttner et al. (2017, see the reference section of PERLA above). D. Braasch worked in a



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