Obituary in honor of the late Professor Arden R. Gaufin 1911-1997 By: R.W. Baumann

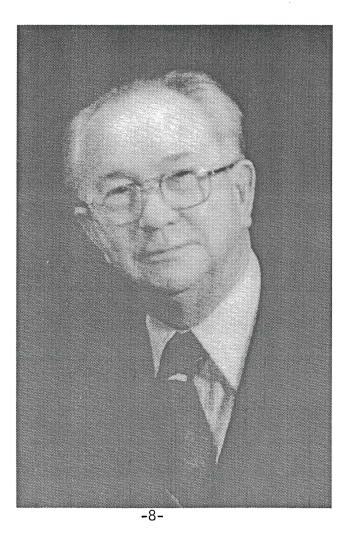
Arden R. Gaufin was born in Salt Lake City, Utah December 25, 1911 and passed away on January 8, 1997. He married Ruth Lund in September 1936 and they were the parents of two children: Richard and Marilyn. Arden attended the University of Utah where he received his BS and MS degrees and then he went to Iowa State University, where he received his PhD in 1950. His doctoral dissertation was a study of the production of the bottom fauna of the Provo River, Utah.

He was very interested in the idea of using aquatic macroinvertebrates as indicators of the relative health of flowing water ecosystems. His first position after graduating was at the Public Health Service Environmental Health Center at Cincinnati, Ohio. There he met Clarence Tarzwell and together they championed the idea that aquatic insects were really twenty-four hour instream indicators of stream conditions. In fact, he served on the Public Health Service National Advisory Council which established water pollution control standards in the 1960's. It was during this time that Arden became one of the early members of the Midwest Benthological Society. Arden was an avid supporter of this organization that is now the very successful North American Benthological Society.

Arden taught at the University of Utah and University of Montana where he was Professor of Biology. He also spent many summers from the late 1950's to the early 1970's at the University of Montana Biological Station, Flathead Lake Montana. These summers in Montana and the nearby states and Canadian provinces were some of the highlights of his life.

When Arden became interested in stoneflies he contacted several colleagues such as John Hanson, Stan Jewett, Bill Ricker, and Herb Ross for help and advice. They encouraged him and the result was a positive surge of interest in the stonefly fauna of the Intermountain West that extended into the rest of North America. The earliest papers that Arden wrote on Plecoptera were published in 1955, (The Stoneflies of Utah) and 1956 (The Stoneflies of Ohio). Although these were only lists, they began what was to be a fruitful career as Arden encouraged promising students to study his beloved stoneflies. In fact, many colleagues would say that Arden's greatest contribution to plecopterology is the many students that he influenced. He was always ready to listen to new ideas and would willingly seek funding to support a new graduate student. His help

extended not only to those that are included as co-authors in the following list of stonefly references but to many others that studied other aspects of aquatic biology. Arden helped many students begin successful careers in biology and for this we owe him a debt of gratitude.



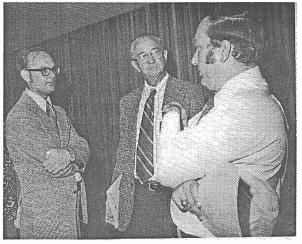
Professor Arden R. Gaufin's Papers on Stoneflies (Plecoptera)

- GAUFIN, A.R. (1955): The stoneflies of Utah. Proc. Utah Acad. Sci. 32: 117-120.
- GAUFIN, A.R. (1956): An annotated list of the stoneflies of Ohio (Plecoptera). - Ohio J. Sci. 56: 321-324.
- GAUFIN, R.F. & A.R. GAUFIN. (1961): The effect of low oxygen concentrations on stoneflies. Proc. Utah Acad. Sci. 38: 57-64.
- GAUFIN, A.R. (1962): Environmental requirements of Plecoptera. pp. 105-110 in T.T. Macan editor, Environmental requirements of aquatic insects, Biological problems in water pollution 3, - U.S. Dept. HEW.
- GAUFIN, A.R. & S. G. JEWETT, JR. (1962): New capnias from Utah (Plecoptera). Wasmann J. Biol. 20: 69-71.
- GAUFIN, A.R. (1964a): The Chloroperlidae of North Amerika. pp. 221-227 *in* J. Illies, editor, 3rd Int. Symp. Plecopteren. Gewässer & Abwässer 34/35: 37-49.
- GAUFIN, A.R. (1964b): Systematic list of Plecoptera of Intermountain region. Proc. Utah Acad. Sci. 41: 221-227.
- GAUFIN, A.R. (1964c): A new species of *Capnia* from Utah (Plecoptera). Wasmann J. Biol. 22: 307-309.
- JENSEN, L.D. & A.R. GAUFIN (1964a): Effects of ten organic insecticides on two species of stonefly naiads. Trans. Amer. Fish. Soc. 93: 27-34.
- JENSEN, L.D. & A.R. GAUFIN (1964b): Long-term effects of organic insecticides on two species of stonefly naiads: - Trans. Amer. Fish. Soc. 93: 357-363.
- KNIGHT, A.W. & A.R. GAUFIN (1964a): The effect on water flow, temperature, and oxygen concentration on the Plecoptera nymph, *Acroneuria pacifica* Banks. Proc. Utah Acad. Sci. 40: 175-184 (1963).
- KNIGHT, A.W. & A.R. GAUFIN (1964b): Relative importance of varying oxygen concentration, temperature, and water flow on the mechanical activity and survival of the Plecoptera nymph, *Pteronarcys californica* Newport. Proc. Utah Acad. Sci. 41: 14-28.
- KNIGHT, A.W. & A.R. GAUFIN (1965): Function of stonefly gills under reduced dissolved oxygen concentration. - Proc. Utah Acad. Sci. 42: 186-190.
- KNIGHT, A.W., A.V. NEBEKER, & A.R. GAUFIN (1965a): Description of the eggs of common Plecoptera of western United States. - Entomol. News 76: 105-111.

- KNIGHT, A.W., A.V. NEBEKER, & A.R. GAUFIN (1965b): Further descriptions of the eggs of Plecoptera of western United States. Entomol. News 76: 233-239.
- NEBEKER, A.V. & A.R. GAUFIN (1965): The *Capnia columbiana* complex of North America (Capniidae: Plecoptera). Trans. Amer. Entomol. Soc. 91: 467-487.
- GAUFIN, A.R., A.V. NEBEKER, & J. SESSIONS (1966): The stoneflies (Plecoptera) of Utah. Univ. Utah Biol. Ser. 14: 1-89.
- JENSEN, L.D. & A.R. GAUFIN (1966): Acute and long-term effects of organic insecticides on two species of stonefly naiads. - J. Water Poll. Control. Fed. 38: 1273-1286.
- KNIGHT, A.W. & A.R. GAUFIN (1966a): Oxygen consumption of several species of stoneflies (Plecoptera). - J. Insect Physiol. 12: 347-355.
- KNIGHT, A.W. & A.R. GAUFIN (1966b): Attitudinal distribution of stoneflies (Plecoptera) in a Rocky Mountain drainage system. - J. Kansas Entomol. Soc. 39:668-675.
- NEBEKER, A.V. & A.R. GAUFIN (1966a): New stoneflies from Idaho (Plecoptera). Entomol. News 77: 36-43.
- NEBEKER, A.V. & A.R. GAUFIN (1966b): Gyandromorphism in Rocky Mountain stoneflies (Plecoptera: Nemouridae). - Entomol. News 77: 155-158.
- NEBEKER, A.V. & A.R. GAUFIN (1966c): New *Paraleuctra* from the Rocky Mountains (Plecoptera: Leuctridae). Entomol. News 77: 255-259.
- KNIGHT, A.W. & A.R. GAUFIN (1967): Stream type selection and associations of stoneflies (Plecoptera) in a Colorado river drainage system. - J. Kans. Entomol. Soc. 40: 347-352.
- NEBEKER, A.V. & A.R. GAUFIN (1967a): Factors affecting wing length and emergence in the winter stonefly *Capnia nana*. - Entomol. News 77: 85-92.
- NEBEKER, A.V. & A.R. GAUFIN (1967b): Geographic and seasonal distribution of the family Capniidae of western North America (Plecoptera). J. Kans. Entomol. Soc. 40: 415-421.
- NEBEKER, A.V. & A.R. GAUFIN (1967c): New *Capnia* from the Rocky Mountains (Plecoptera: Capniidae). Trans. Amer. Entomol. Soc. 93: 235-247.
- NEBEKER, A.V. & A.R. GAUFIN (1968): The winter stoneflies of the Rocky Mountains (Plecoptera: Capniidae). - Trans. Amer. Entomol. Soc. 94: 1-24.
- BAUMANN, R.W. & A.R. GAUFIN (1969): A new species of *Capnia* (Plecoptera: Capniidae) from Arizona. Entomol. News 80:75-78.

- BAUMANN, R.W. & A.R. GAUFIN (1970): The *Capnia projecta* complex of western North America (Plecoptera: Capniidae). - Trans. Amer. Entomol. Soc. 96:435-468.
- GAUFIN, A.R. (1970): Type-species designation for the subgenus Utacapnia (Plecoptera: Capniidae). Entomol. News 81: 197.
- BAUMANN, R.W. & A.R. GAUFIN (1971a): The stoneflies (Plecoptera) of the Wasatch Mountains, Utah. Proc. Utah Acad. Sci. 46:106-113 (1969).
- BAUMANN, R.W. & A.R. GAUFIN (1971b): New species of *Nemoura* from western North America (Plecoptera: Nemouridae). - Pan-Pacific Entomol. 47:270-278.
- HALES, D.C. & A.R. GAUFIN (1971): Observations on the emergence of two species of stoneflies. Entomol. News 82:107-109.
- RICHARDSON, J.W. & A.R. GAUFIN (1971): Food habits of some western stonefly nymphs. Trans. Amer. Entomol. Soc. 97:91-121.
- BAUMANN, R.W. & A.R. GAUFIN (1972): The Amphinemura venusta complex of western North America (Plecoptera: Nemouridae). Nat. Hist. Mus. Los Angeles Co., Contrib. Sci. 266:1-16.
- GAUFIN, A.R., W.E. RICKER, M. MINER, P. MILAM, & R.A. HAYS (1972): The stoneflies (Plecoptera) of Montana. - Trans. Amer. Entomol. Soc. 98: 1-61.
- ELDER, J.A. & A.R. GAUFIN (1973): Notes on the occurrence and distribution of *Pteronarcys californica* Newport (Plecoptera) within streams. Gr. Basin Natur. 33:218-220.
- STARK, B.P., B.R. OBLAD, & A.R. GAUFIN (1973): An annotated list of the stoneflies (Plecoptera) of Colorado. - Entomol. News 84: 269-277, 301-305.
- BAUMANN, R.W. & A.R. GAUFIN (1974): Relocation of Plecoptera type specimens. Proceedings Entomol. Soc. Washington 76:450-451.
- ELDER, J.A. & A.R. GAUFIN (1974): The toxicity of three mercurials to *Pteronarcys californica* Newport, and some possible physiological effects which influence the toxicities. Environ. Res. 7: 169-175.
- GAUFIN, A.R. & W.E. RICKER (1974): Additions and corrections to a list of Montana stoneflies. Entomol. News 85: 285-288.
- STANFORD, J.A. & A.R. GAUFIN (1974): Hyporheic communities of two Montana rivers. - Science 185:700-702.
- STARK, B.P. & A.R. GAUFIN (1974a): The species of *Calineuria* and *Doroneuria* (Plecoptera: Perlidae). Gr. Basin Natur. 34:83-93.
- STARK, B.P. & A.R. GAUFIN (1974b): The genus *Diploperla* (Plecoptera: Perlodidae). J. Kansas Entomol. Soc. 47:433-436.

- CATHER, M.R. & A.R. GAUFIN (1975): Life history and ecology of *Megarcys signata* (Plecoptera: Perlodidae), Mill Creek, Wasatch Mountains, Utah. - Gr. Basin Natur. 35:39-48.
- CATHER, M.R., B.P. STARK, & A.R. GAUFIN (1975): Records of stoneflies (Plecoptera) from Nevada. Gr. Basin Natur. 35:49-50.
- STARK, B.P., T.A. WOLFF, & A.R. GAUFIN (1975): New records of stoneflies (Plecoptera) from New Mexico. - Gr. Basin Natur. 35: 97-99.
- CATHER, M.R. & A.R. GAUFIN (1976): Comparative ecology of three Zapada species of Mill Creek, Wasatch Mountains, Utah (Plecoptera: Nemouridae). - Amer. Midland Natur. 95:464-471.
- STARK, B.P. & A.R. GAUFIN (1976a): The Nearctic species of Acroneuria (Plecoptera: Perlidae). - J. Kansas Entomol. Soc. 49:221-253.
- STARK, B.P. AND A.R. GAUFIN (1976b): The Nearctic genera of Perlidae (Plecoptera). Misc. Publ. Entomol. Soc. Amer. 10:1-77.
- BAUMANN, R.W., A.R. GAUFIN & R.F. SURDICK (1977): The stoneflies (Plecoptera) of the Rocky Mountains. Mem. Amer. Entomol. Soc. 31:1-208.
- SURDICK, R.F. & A.R. GAUFIN (1978): Environmental requirements and pollution tolerance of Plecoptera. - EPA- 600/4-78-062, 417 pp.
- STARK, B.P. & A.R. GAUFIN (1979): The stoneflies (Plecoptera) of Florida. Trans. Amer. Entomol. Soc. 104:391-433.



Drs. Bill Stark, Arden Gaufin and Charles Nelson at the 1974 International Plecoptera Symposium in Washington, D.C.