

**CURRICULUM VITAE
OF
VICTOR HOBBS HUTCHISON**

November, 2008

GENERAL:

Born: Blakely, Georgia, U.S.A., 15 June 1931
Marital Status: Married; Theresa Dokos; two children

EDUCATION:

North Georgia College, B.S. magna cum laude, June, 1952 (Biology-Chemistry).
Duke University, M.A. September, 1956 (Zoology).
Duke University, Ph.D., September, 1959 (Zoology).

MILITARY EXPERIENCE:

Served on active duty as Lt., U.S. Army, 1952-54. Korea
Colonel, Medical Service Corps, U.S. Army Reserves (Retired).
Graduate, U.S. Army Command and General Staff College, 1976
Decorations: Meritorious Service Medal, Army Commendation Medal.

AREAS OF RESEARCH INTERESTS:

Environmental physiology, physiological ecology of amphibians and reptiles, respiration and metabolism in amphibians and reptiles, thermoregulation and thermal tolerance of vertebrates.
Significance of respiration in the ecology, systematics, evolution and zoogeography of amphibians.
Metabolic scope for activity in amphibians and reptiles.
Role of photoperiod and the parietal eye in the thermoregulation of reptiles.
Role of erythrocytic phosphates in blood gas exchange of lower vertebrates.
Thermal tolerance and heat-hardening in ectothermic vertebrates and mammals.
Pharmacological aspects of behavioral thermoregulation in ectothermic vertebrates.
Role of melatonin blood levels on diel cycles of thermal tolerance and thermal selection.
Magnetization and magnetism in animals.

HONORS, FELLOWSHIPS AND AWARDS:

Guggenheim Fellowship, 1965-66.
National Science Foundation Pre-doctoral award, Mt. Lake Biological Station, 1955.
National Science Foundation Pre-doctoral award, Duke University Marine Laboratory, 1956.
Sigma-Xi-RESA Research Grants-in-Aid, 1957, 1959-60, 1963.
Faculty Fellowship, Southern Fellowship Fund, 1958-59.
Zoological Association of Graduate Students, OU, Award for Outstanding Dedication and Excellence in Graduate Education, 1988; Lifetime Service Award for Support and Mentoring of Graduate Students, 1997.
Americans United for Separation of Church and State, Oklahoma Chapter, Constitutional Heritage Award, 2000.
Tulsa Interfaith Alliance, Award for Science Education and Anti-creationism Efforts
National Center for Science Education, Friend of Darwin Award, 2008

GRANTS AWARDED:

The Nature Conservancy, Oklahoma Chapter, Baseline Study and Development of Monitoring Plan for the Prairie Mole Cricket (*Gryllotalpa major*), 1993-94. (co-P.I.; P. Hill, P.I.).
The Nature Conservancy, Oklahoma Chapter, Reproductive Ecology of the Prairie Mole Cricket, 1994-95, (co-P.I.; P. Hill, P.I.).

Dept. of Interior, National Biological Survey, The Prairie Mole Cricket: Success with a Species at Risk, 1994-95, (co-P.I.; P. Hill, P.I.).

U. S. Department of Education, Graduate Assistance Aimed at National Needs (GAANN), Graduate Fellowships: 1992-1995.
 National Science Foundation Research Grants: 1960-63; 1963-66; 1965-68; 1975-77.
 National Institutes of Health Research Grants: 1964-68; 1976-80.
 U.S. Navy, Subcontract through University Of Maryland: 1987-88.
 University of Rhode Island Research Grants-in-Aid: 1960-63, 1965, 1967.
 University of Oklahoma, Biomedical Sciences Support Grants, Research Council Grants: 1981, 1983, 1984, 1986.
 National Geographic Society Research Grants: 1965 (Colombia), 1973-74, (Bolivia), 1981 (Cameroon).
 National Academy of Sciences - National Research Council, Visiting Scientist Exchange Fellowship, Poland, August, 1969.
 George Lynn Cross Research Professor Support -1979-present. OU Foundation -1984.

PROFESSIONAL EXPERIENCE:

George Lynn Cross Research Professor, University of Oklahoma, 1979-2002; emeritus, 2001-present.
 Project Director, Department of Education, Graduate Assistance Aimed at National Needs grant, University of Oklahoma, 1992-1995.
 Program Director, National Science Foundation Comprehensive Assistance to Undergraduate Science Education Grant (CAUSE), University of Oklahoma, 1976-1979.
 Professor of Zoology and Chairman, University of Oklahoma, 1970-80.
 Adjunct Professor of Zoology, University of Rhode Island, 1970-74.
 Professor of Zoology, University of Rhode Island, 1968-70.
 Program Director, National Institutes of Health Training Grant in Environmental Physiology, University of Rhode Island, 1967-70.
 Director, Institute of Environmental Biology, University of Rhode Island, 1966-70.
 Research Associate, New York Zoological Society, 1964-69.
 Associate Professor of Zoology, University of Rhode Island, 1963-68.
 Assistant Professor of Zoology, University of Rhode Island, 1960-63.
 Director, NSF Institute in Field Biology and Ecology, University of Rhode Island, 1960.
 Instructor in Zoology, University of Rhode Island, 1959-60.
 Part-time Instructor in general zoology and comparative anatomy, Duke University, 1957-58.
 Teaching Assistant in general zoology and comparative anatomy, Duke University, 1954-57.

CONSULTING AND WORKSHOPS:

External reviews of biology departments: assessment of personnel, programs and plans.
 External review of field research stations and laboratories.
 Conservation assessment, Texas Parks & Wildlife Department, Aquatic Biology Assessment Team 1995-96.
 Workshops on professional job placement strategies for graduate students and postdoctorals: American Society of Zoologists, American Society of Ichthyologists & Herpetologists.
 Workshop on university/college departmental administration, Oklahoma Center for Continuing Education. Member (1995) and Chair (1997), Biology Panel, Texas Higher Education Coordinating Board, Advanced Research Programs
 Workshop on measurement of amphibian lung function, 1998 International Symposium on Animal Adaptation, Academic Sinica and National Taiwan Normal University.
 NASA Organismal Biology Panel (2001)
 Southwestern Education Development Laboratory workshop on teaching of evolution (2002)
 Workshops for Teachers, Teaching Evolution, Oklahomans for Excellence in Science Education, University

of Oklahoma Biological Station, 2006, 2007, 2008.

COURSES TAUGHT:

General biology, general zoology, comparative anatomy, introductory human physiology, comparative physiology, physiological ecology, general ecology, vertebrate biology (mammalogy and herpetology), graduate seminars in advanced ecology, comparative physiology, and professional aspects of biology.

PROFESSIONAL AND HONORARY SOCIETIES:

American Association for the Advancement of Science (Fellow)
 American Institute of Biological Sciences
 American Society of Ichthyologists and Herpetologists (President-elect, 1987; President, 1988 Executive Committee 1987-89; Board of Governors, 1967-70; 1971-74; 1983-; Editorial Board, Copeia; Meeting Chairman, 1984; Time and Place Committee, 1985; Gage Award Committee, 1985-87; Chair, Long-range Planning and Finance Committee, 1993-1995),)
 American Physiological Society (elected 1970)
 Ecological Society of America
 Explorers Club (Fellow)
 Herpetologists League (Fellow; Executive Committee, 1968-71; Chairman, Joint Committee on Cooperation with Society for the Study of Amphibians and Reptiles, 1969-72; Meeting Chairman, 1972, 1984)
 New York Academy of Science
 Society for Integrative and Comparative Biology (formerly American Society of Zoologists), Divisions of Comparative Physiology and Ecology (Development Committee, 1996-1998; Task Force on Organization and Governance, 1998-99; nominee for President, 1998)
 Society for Experimental Biology and Medicine
 Society for the Study of Amphibian and Reptiles (President-elect, 1998; President, 1999; Immediate Past President, 2000, Meeting Chairman, 1972, 1984; Board of Directors, 1986-88; Finance and other committees)
 Oklahoma Academy of Sciences
 Oklahomans for Excellence in Science Education (<http://www.biosurvey.ou.edu/oese/>),
 Founder, President, 2004-2008) and Manager, Oklahoma Evolution List Serve
 Southwestern Association of Naturalists
 Phi Sigma (Faculty advisor, U.R.I. Chapter, 1964-65)
 Sigma Xi (Executive Committee, Membership Committee President-elect, U.R.I. Chapter)
 Phi Kappa Phi

SERVICE ON UNIVERSITY COMMITTEES AND COUNCILS:

University of Rhode Island:
 Graduate Council
 University Long-Range Planning Committee
 University Visiting Scholars Committee
 University Research Committee
 All-University Committee on the Sciences
 Executive Committee (Chairman), Institute of Environmental Biology (and ex officio on other I.E.B. committees)
 Zoology Colloquium Committee (Chair, 2 years)
 Advisory Committee on Research Purchasing Procedures

Various Search Committees (Coordinator of Research, Chairperson, Deans, etc.)

University of Oklahoma:

Faculty Senate
 Budget Council
 Research Council
 Council on Administration and Physical Resources
 Office of Research Administration Advisory Committee
 Search Committees for Dean of Arts and Sciences
 Environmental Safety Committee, (Chair)
 Executive Committee, Oklahoma Biological Survey
 Advisory Committee, Biological Station
 Faculty Advisory Board, University of Oklahoma Press
 Sutton Lectures Committee (Chair)
 ROTC Advisory Committee (Chair)
 Subcommittee on Life Sciences, OU Associates Proposals
 Zoology Graduate Selections Committee
 Zoology Graduate Recruitment Committee (Chair)

ADDITIONAL REMARKS:

Editor, Series in Animal Natural History, University of Oklahoma Press, Norman, OK (1993-present):
 Johnsgard, Paul A. and M. Carbonell. 1996. Ruddy Ducks and Other Stiffetails; Skutch, Alexander F. 1997. Life of the Flycatcher; Rossman, Douglas A., Neil B. Ford and Richard A. Seigel. 1996. The Garter Snakes. Evolution and Ecology; Campbell, Jonathan A. 1998. Amphibians and Reptiles of Northern Guatemala, the Yucatan and Belize; Lent, Peter C. 1999. Muskoxen and Their Hunters; Dodd, C. Kenneth. 2000. Natural History of North American Box Turtles, 2001; J> Whitfield Gibbons and Michael E. Dorcas. 2004. North American Watersnakes. A Natural History; Martha Anne Maxon. 2005. *The Real Road Runner*; contracts signed for two additional volumes (one in production).

Referee for papers submitted to *Science*, *Copeia*, *Ecology*, *Ecological Monographs*, *Evolution*, *Journal of Morphology*, *Science*, *Herpetologica*, *Journal of Experimental Zoology*, *American Naturalist*, *Journal of Thermal Biology*, *Physiological Zoology*, *Canadian Journal of Zoology*, *Journal of Comparative Physiology*, *Physiology and Behavior*, *Respiration Physiology*, *Journal of Herpetology*, *Journal of Applied Physiology*, *Animal Behavior*, *American Journal of Physiology*, *The Auk*, *Journal of Medical Entomology*, *American Zoologist*, *Comparative Biochemistry and Physiology*, *Herpetological Journal*, *Herpetological Review*, *Behaviour*, *Journal of Experimental Biology*, *Journal of Pineal Research*, *Life Sciences*, *Canadian Journal of Zoology*, *Functional Ecology* and others.

Evaluator of research proposals submitted to National Science Foundation, Atomic Energy Commission, United States-Israel Binational Science Foundation, National Geographic Society, various state EPSCOR programs, NASA, Department of Energy, and other agencies.

Invited participant in 14 symposia at national and international society meetings; organizer of symposium for Amer. Assoc. Adv. Sci. meeting, 1968; co-organizer of symposium for Second World Congress of Herpetology, Australia, 1994.

Delegate, International Biological Program Planning Conference, Caracas, Venezuela, 1967.

Have supervised 13 masters degrees and 28 Ph.D. degrees.

Advisor for 23 undergraduate honors students research theses, undergraduate research participants.

Member, Subcommittee on Amphibians, Institute of Laboratory Animal Resources, 1971-73.

Invited Participant, International Symposium on Vertebrate Respiration, Gottingen, Germany, 1971; Bhagalpur, India, 1974; Columbus, Ohio, 1981.

Seminars and Invited Lectures at other institutions: approximately 50.

Lectures and appearances on TV and radio on aspects of evolution vs. creationism .

Manager, Oklahoma Evolution List Serve (2000-present)
 Travel and field experience in Australia, Belize, Bolivia, Brazil, Cameroon, Colombia, India,
 Mexico, Taiwan, Trinidad and Tobago, Venezuela.

PUBLICATIONS:

- Hutchison, Victor H. 1956. An annotated list of the amphibians and reptiles of Giles County, Virginia. Virginia Journal of Science 7:80-86.
- Hutchison, Victor H. 1956. Notes on the plethodontid salamanders, *Eurycea lucifuga longicauda* (Green). Occasional Papers of the National Speleological Society 3:1-24.
- Hutchison, Victor H. 1958. Ghostly Glow. Nature Magazine, 51:303.
- Hutchison, Victor H. 1958. The distribution and ecology of the cave salamander, *Eurycea lucifuga*. Ecological Monographs 28:1-20.
- Hutchison, Victor H. and Carl S. Hammen. 1958. Oxygen utilization in the salamander, *Ambystoma maculatum*, and the alga, *Oophila amblystomatis*. Biological Bulletin 115(3):483-489.
- Hutchison, Victor H. 1959. Aggressive behavior in *Plethodon jordani*. Copeia (1):72-73.
- Hutchison, Victor H. and James L. Larimer. 1960. Reflectivity of the integuments of some lizards from different habitats. Ecology 41(1):199-209.
- Hutchison, Victor H. 1961. Critical thermal maxima in salamanders. Physiological Zoology 2(34):92-125.
- Hutchison, Victor H. 1962. Salamander sojourn. Narragansett Naturalist 5(2):36-39.
- Hutchison, Victor H. and George C. West. 1962. Laboratory Manual in Animal Biology. Minneapolis: Edwards Bros. (5 editions through 1971).
- Hammen, Carl and Victor H. Hutchison. 1962. Carbon dioxide assimilation in the symbiosis of the salamander, *Ambystoma maculatum*, and the alga, *Oophila amblystomatis*. Life Sciences 10:527-532.
- Hutchison, Victor H. and Allen Vinegar. 1963. The feeding of the box turtle, *Terrapene carolina*, on a live snake. Herpetologica 18(4):284.
- Hutchison, Victor H. 1963. Record of the bog turtle, *Clemmys muhlenbergi*, in southwest Virginia. Copeia(1):156-157.
- Hutchison, Victor H. 1963. (A review of) Reptiles in the Home Zoo, by Isabel Hoopes, Boston: Museum of Science. Narragansett Naturalist 6:26-27.
- Whitford, Walter G. and Victor H. Hutchison. 1963. Cutaneous and pulmonary gas exchange in the spotted salamander, *Ambystoma maculatum*. Biological Bulletin 124:344-354.
- Hutchison, Victor H. 1963. First record of the southern bog lemming in Rhode Island. Narragansett Naturalist 6:60.
- West, George C. and Victor H. Hutchison. 1964. The southern bog lemming in Rhode Island. Journal of Mammalogy 45(3):479-480.
- Hutchison, Victor H. 1964. Distance and direction in locality data. Systematic Zoology 13(3):156-157.
- Hutchison, Victor H., and Mary Judith Dady. 1964. The viability of *Rana pipiens* and *Bufo terrestris* submerged at different temperatures. Herpetologica 20(3):149-162.
- Hutchison, Victor H. and Richard J. Kosh. 1965. The effect of photoperiod on the critical thermal maxima of painted turtles, *Chrysemys picta*. Herpetologica 20(4):233-238.
- Vinegar, Allen and Victor H. Hutchison. 1965. Pulmonary and cutaneous gas exchange in the green frog, *Rana clamitans*. Zoologica 50(1):47-53.
- Whitford, Walter G. and Victor H. Hutchison. 1965. Effect of photoperiod on pulmonary and cutaneous respiration in the spotted salamander, *Ambystoma maculatum*. Copeia(1):53-58.
- Whitford, Walter G. and Victor H. Hutchison. 1965. Gas exchange in salamanders. Physiological Zoology 38(3):228-242.
- Hutchison, Victor H. and Henryk Szarski. 1965. The number of erythrocytes in some amphibians and reptiles. Copeia (3):373-375.
- Hutchison, Victor H., Herndon G. Dowling and Allen Vinegar. 1966. Thermoregulation in a brooding

- female Indian rock python, *Python molurus bivittatus*. Science 151(3711):694-696.
- Hutchison, Victor H. and Walter G. Whitford. 1966. Survival and underwater buccal movements in submerged amphibians. Herpetologica 22(2):122-127.
- Whitford, Walter G. and Victor H. Hutchison. 1966. Pulmonary and cutaneous gas exchange in ambystomatid salamanders. Copeia (3):573-577.
- Hutchison, Victor H. 1966. *Eurycea lucifuga*. Page 24. In: Catalogue of American Amphibians and Reptiles (W.J. Riemer, ed.).
- Robinson, Sumner M., Victor H. Hutchison, and William F. Blatt. 1967. A note on the relationship of tympanic, intraperitoneal, and brain temperatures in the rat. Canadian Journal of Physiology and Pharmacology 45:355-358.
- Whitford, Walter G. and Victor H. Hutchison. 1967. Body size and metabolic rate in salamanders. Physiological Zoology. 40(2):127-133.
- Kosh, Richard J. and Victor H. Hutchison. 1968. Daily rhythmicity of temperature tolerance in the Eastern painted turtle, *Chrysemys picta*. Copeia (2):244-246.
- Hutchison, Victor H., Walter G. Whitford, and Margaret A. Kohl. 1968. The relation of body size and surface to gas exchange in anurans. Physiological Zoology 41(1):65-85.
- Guimond, Robert W. and Victor H. Hutchison. 1968. The effect of temperature and photoperiod on gas exchange in the leopard frog, *Rana pipiens*. Comparative Biochemistry and Physiology 27:177-195.
- Hutchison, Victor H. 1968. Thermoregulation in pythons. Symposium on Influence of Cold on Metabolic Regulation. Bulletin of the New Jersey Academy of Science 13(2):35-36.
- Mahoney, Joseph J. and Victor H. Hutchison. 1969. Photoperiod acclimation and twenty-four hour variations in the critical thermal maxima of a tropical and a temperate frog. Oecologia 2(2):143-161.
- Graham, Terry E. and Victor H. Hutchison. 1969. Centenarian box turtles. International Turtle and Tortoise Society Journal 24-29 (and cover photograph). Reprinted in Man and Nature 1972:26-31.
- Hutchison, Victor H. and Michael R. Ferrance. 1970. Thermal tolerances of *Rana pipiens* acclimated to daily temperature cycles. Herpetologica 26(1):1-8.
- Kour, Edna Lynne and Victor H. Hutchison. 1970. Critical thermal tolerances and heating and cooling rates of lizards from diverse habitats. Copeia (2):219-229.
- Vinegar, Allen, Victor H. Hutchison and Herndon G. Dowling. 1970. Metabolism, energetics and thermoregulation during brooding of snakes of the genus *Python*. Zoologica 55(2):19-48.
- Hutchison, Victor H. 1971. Herpetological expedition to Colombia. National Geographic Society Research Reports 1965. 113-122.
- Hutchison, Victor H. 1971. Oxygen consumption. Part IV. Amphibians. Pp. 481-485 In: Respiration and Circulation (P.L. Altman and D.S. Dittmer, eds.). Biological Handbooks, Fed. Amer. Soc. Exptl. Biol., Bethesda, MD. 930 pp.
- Hutchison, Victor H. and Margaret A. Kohl. 1971. The effect of photoperiod on daily rhythms of oxygen consumption in the tropical toad, *Bufo marinus*. Zeitschrift für vergleichende Physiologie 75:367-382.
- Hutchison, Victor H. 1971. On the *Ambystoma* egg-alga relationship. Herpetological Review. 3(5):182.
- Guimond, Robert W. and Victor H. Hutchison. 1972. Pulmonary, branchial and cutaneous gas exchange in the mudpuppy, *Necturus maculosus maculosus* (Rafinesque). Comparative Biochemistry and Physiology 42A:367-392
- Kosh, Richard J. and Victor H. Hutchison. 1972. Thermal tolerances of parietectomized *Anolis carolinensis* acclimatized at different temperatures and photoperiods. Herpetologica 28(3):183-191.
- Guimond, Robert W. and Victor H. Hutchison. 1973. Trimodal gas exchange in the large aquatic salamander, *Siren lacertina* (Linnaeus). Comparative Biochemistry and Physiology 46A:249-268.
- Hutchison, Victor H., Gustav Engbretson and L. Douglas Turney. 1973. Thermal acclimation and tolerance in the hellbender, *Cryptobranchus alleganiensis*. Copeia (4):805-807.
- McIlvaine, Paul M., G. Lengyel and Victor H. Hutchison. 1973. Infrared-induced thermoelectric potentials in extracellular recording electrodes. Radiation Research 55:197-201.
- Guimond, Robert W. and Victor H. Hutchison. 1974. Aerial and aquatic respiration in the congo eel,

- Amphiuma means means (Garden). Respiration Physiology 20:147-199.
- Turney, L. Douglas and Victor H. Hutchison. 1974. Metabolic scope, oxygen debt, and the diurnal oxygen consumption cycle of the leopard frog, *Rana pipiens*. Comparative Biochemistry and Physiology 49A:583-601.
- Hutchison, V.H. and R.J. Kosh. 1974. Thermoregulatory function of the parietal eye in the lizard, *Anolis carolinensis*. Oecologia 16:173-177.
- Hutchison, V.H. and S. Rowlan. 1975. Thermal acclimation and tolerance in the mudpuppy, *Necturus maculosus*. Journal of Herpetology 9:367-368.
- Hutchison, V.H. and L.D. Turney. 1975. Glucose and lactate concentrations during activity in the leopard frog, *Rana pipiens*. Journal of Comparative Physiology 99:287-295.
- Guimond, R.W. and V.H. Hutchison. 1976. Gas exchange in the giant salamanders of North America. Pp.313-338 In: Respiration of Amphibious Vertebrates (G.M. Hughes, ed.). Academic Press, New York. 402 pp.
- Engbretson, G. and V.H. Hutchison. 1976. Erythrocyte count, hematocrit and hemoglobin content in the lizard, *Liolaemus multiformis*. Copeia (1):186.
- Hutchison, V.H. 1976. Factors influencing thermal tolerance of individual organisms. Pp. 10-26 In: Thermal Ecology II. Environmental Research Development Administration Symposium Series, U.S. Natl. Tech. Info. Services, Springfield, MD., 404 pp.
- Hutchison, V.H., H.B. Haines and G.A. Engbretson. 1976. Aquatic life at high altitude: Respiratory adaptations in the Lake Titicaca frog, *Telmatobius culeus*. Respiration Physiology 27:115-129.
- Hutchison, V.H. and L.G. Hill. 1976. Thermal selection in the hellbender, *Cryptobranchus alleganiensis*, and the mudpuppy, *Necturus maculosus*. Herpetologica 32:327-331.
- Engbretson, G.A. and V.H. Hutchison. 1976. Parietalectomy and thermal selection in the lizard, *Sceloporus magister*. Journal of Experimental Zoology 198(1):29-38.
- Gratz, Ronald K. and Victor H. Hutchison. 1977. Energetics for activity in the diamondback water snake, *Natrix rhombifera*. Physiological Zoology 50(2):99-114.
- Hutchison, Victor H., Douglas Turney, and Ronald K. Gratz. 1977. Aerobic and anaerobic metabolism during activity in the salamander, *Ambystoma tigrinum*. Physiological Zoology 50(3):189-202.
- Graham, Terry E. and Victor H. Hutchison. 1977. A device for simulating twilight in studies of animal activity. Behavioral Research Methods and Instrumentation 9(4):395-396.
- Hutchison, V.H. and L.G. Hill. 1978. Thermal selection of bullfrog (*Rana catesbeiana*) tadpoles at different stages of development and acclimation temperatures. Journal of Thermal Biology 3:57-60.
- Graham, T.E. and V.H. Hutchison. 1978. Locomotor activity in *Chrysemys picta*: Response to asynchronous cycles of temperature and photoperiod. Copeia (2):364-367.
- Hazard, S. and V.H. Hutchison. 1978. Ontogenetic changes in erythrocytic organic phosphates in the bullfrog, *Rana catesbeiana*. Experimental Zoology 206:109-118.
- Preslar, A J. III and V.H. Hutchison. 1978. Energetics for activity in the salamander, *Amphiuma tridactylum*. Journal of Comparative Physiology 128B:139-146.
- Miller, K. and V.H. Hutchison. 1979. Activity metabolism in the mudpuppy, *Necturus maculosus*. Physiological Zoology 22-37.
- Graham, T.E. and V.H. Hutchison. 1979. Effect of temperature and photoperiod acclimatization on thermal preferences of selected freshwater turtles. Copeia (1):165-169.
- Hutchison, Victor H. 1979. Thermoregulation. Pp. 207-228. Turtles: Perspectives and Research (H. Morlock and M. Harless, eds.). Wiley Interscience, New York. 666 pp.
- Hutchison, V.H. and K. Miller. 1979. Anaerobic capacity in amphibians. Comparative Biochemistry and Physiology 63A:213-216.
- Hutchison, V.H. and J.D. Maness. 1979. The role of behavior in temperature acclimation and tolerance in ectotherms. American Zoologist 19:367-384.
- Cothran, M.L. and V.H. Hutchison. 1979. Effect of melatonin on thermal selection by *Crotaphytus collaris* (Squamata:Iguanidae). Comparative Biochemistry and Physiology 63A:461-466.
- Graham, T.E. and V.H. Hutchison. 1979. Turtle diel activity: Response to different regimes of temperature and photoperiod. Comparative Biochemistry and Physiology 63A:299-305.
- Hutchison, V.H. and K. Miller. 1979. Aerobic and anaerobic contributions to sustained activity in *Xenopus*

- laevis. Respiration Physiology 38:93-103.
- Hutchison, V.H., J. Black and E. Erskine. 1979. Melatonin and chlorpromazine: Thermal selection in the mudpuppy, *Necturus maculosus*. Life Sciences 25(6):527-530.
- Martin, K.M. and V.H. Hutchison. 1979. Ventilatory activity in *Amphiuma tridactylum* and *Siren lacertina* (Amphibia, Caudata). Journal of Herpetology 13(4):427-434.
- Miller, K. and V.H. Hutchison. 1980. Aerobic and anaerobic scope for activity in the giant toad, *Bufo marinus*. Physiological Zoology 53(2):170-175.
- Maness, J. and V.H. Hutchison. 1980. Acute adjustment of thermal tolerance in vertebrate ectotherms following exposure to critical thermal maxima. Journal of Thermal Biology 5:225-233.
- Hutchison, V.H. 1980. The concept of critical thermal maximum. American Journal of Physiology 237(5):R367-R368.
- Erskine, D.J. and V.H. Hutchison. 1980. Melatonin and behavioral thermoregulation in the turtle, *Terrapene carolina triunguis*. Physiology and Behavior 26:991-994.
- Hutchison, V.H., K. Miller and R.K. Gratz. 1981. The anaerobic contribution to sustained activity in the giant toad, *Bufo marinus*. Comparative Biochemistry and Physiology 69A:693-696.
- Hutchison, V.H. and E.S. Hazard. 1981. Diel variation of erythrocytic phosphates in *Mus musculus* acclimated to different photoperiod regimes. Comparative Biochemistry and Physiology 70A:9-12.
- Hutchison, V.H. 1981. Pharmacological studies on the behavioral thermoregulation in the salamander, *Necturus maculosus*. Journal of Thermal Biology 6(4):195-198.
- Hutchison, V.H. and D.J. Erskine. 1981. Thermal selection and prostaglandin E1 fever in the salamander, *Necturus maculosus*. Herpetologica 37(4):195-198.
- Erskine, D.J. and V.H. Hutchison. 1982. Reduced thermal tolerance in an amphibian treated with melatonin. Journal of Thermal Biology 7:121-123.
- Erskine, D.J. and V.H. Hutchison. 1982. Critical thermal maxima in small mammals. Journal of Mammalogy 63(2):267-273.
- Erskine, D.J. and V.H. Hutchison. 1982. The critical thermal maximum as a determinant of thermal tolerance in *Mus musculus*. Journal of Thermal Biology 7:125-131.
- Hazard, E.S. and V.H. Hutchison. 1982. Distribution of acid soluble phosphates in the erythrocytes of selected amphibians. Comparative Biochemistry and Physiology 73A:111-125.
- Hutchison, V.H. 1982. Physiological ecology of telmatobiid frogs of Lake Titicaca. National Geographic Society Research Reports 57-361.
- Hutchison, V.H. and N. Hart. 1984. Decreased thermal tolerance in *Mus musculus* with melatonin and chlorpromazine. Comparative Biochemistry and Physiology 78(2):373-376.
- Hutchison, V.H. and E.S. Hazard. 1984. Erythrocytic organic phosphates: diel and seasonal cycles in the frog, *Rana berlandieri*. Comparative Biochemistry and Physiology 79A(4):533-538.
- Stark-Vancs, V., Paul B. Bell Jr. and V.H. Hutchison. 1984. Morphological and pharmacological bases for pulmonary function in *Amphiuma tridactylum*. Cell and Tissue Research 238:1-12.
- Pettit, M.J., T.L. Beiting and V.H. Hutchison. 1985. Oxygen transfer characteristics of the blood of the reedfish *Erpetoichthys calabricus*. Comparative Biochemistry and Physiology 82A:553-558.
- Hutchison, V.H. and K. Murphy. 1985. Behavioral thermoregulation in the salamander *Necturus maculosus* after heat shock. Comparative Biochemistry and Physiology 82A:391-394.
- Hutchison, V.H. 1986. (A Review of) Respiration and Metabolism of Embryonic Vertebrates. Edited by R.S. Seymour (1984), Dr. W. Junk Publishers, Dordrecht, Copeia 1986(1):264-265.
- Hutchison, V.H. and K. Spriestersbach. 1986. Diel and seasonal cycles of activity and behavioral thermoregulation in the salamander *Necturus maculosus*. Copeia 1986(3):612-618.
- Ritchart, J.P. and V.H. Hutchison. 1986. The effects of ATP and cAMP on the thermal tolerance of the mudpuppy, *Necturus maculosus*. Journal of Thermal Biology 11:47-51.
- Hutchison, V.H. and K. Spriestersbach. 1986. Histamine and histamine receptors: behavioral thermoregulation in the salamander, *Necturus maculosus*. Comparative Biochemistry and Physiology 85C(I):199-206.
- Paulson, B.K. and V.H. Hutchison. 1987. Origin of the stimulus for muscular spasms at the critical thermal maximum in anurans. Copeia 1987(3):810-813.

- Paulson, B.K and V.H. Hutchison. 1987. Blood changes in *Bufo cognatus* following heat stress. Comparative Biochemistry and Physiology 87A(2):461-466.
- Sievert, L. and V.H. Hutchison. 1988. Light versus heat: behavioral thermoregulation in a nocturnal lizard (*Gecko gecko*). Herpetologica, 44(3):266-273.
- Hutchison, V.H. and J.P. Ritchart. 1988. Annual cycle of thermal tolerance in the salamander *Necturus maculosus*. Journal of Herpetology 23(1):73-76.
- Sievert, L. and V. H. Hutchison. 1989. Influences of season, time of day, light and sex on the thermoregulatory behavior of *Crotaphytus collaris*. Journal of Thermal Biology 14(3):159-165.
- Sievert, L. and V. H. Hutchison. 1989. The parietal eye and thermoregulatory behavior of *Crotaphytus collaris* (Squamata: Iguanidae). Comparative Biochemistry and Physiology 94A(2):339-343.
- Sievert, L. and V. H. Hutchison. 1991. Influence of photoperiod and position of light source on behavioral thermoregulation in *Crotaphytus collaris* (Squamata: Iguanidae). Copeia 1991(1):105-110.
- Mullens, D. P. and V. H. Hutchison. 1992. Diel, seasonal, postprandial and food-deprived thermoregulatory behavior in tropical toads (*Bufo marinus*). J. Thermal Biol. 17(1):63-67.
- Edwards, H., G. D. Schnell, R. DuBois and V. H. Hutchison. 1992. Natural and induced permanent magnetism in birds. The Auk 109(1):43-56.
- Hutchison, V. H. and K. Dupré. 1992. Chapter 9. Thermoregulation. pp 206-249. In: M. Feder and W. Burggren (Eds.), Environmental Physiology of Amphibians. University of Chicago Press, Chicago. 646 pp.
- Rawding, R. S. and V. H. Hutchison. 1992. Influence of temperature and photoperiod on plasma melatonin in the mudpuppy, *Necturus maculosus*. General and Comparative Endocrinology, 88(2):1-11.
- Rawding, R. S. and V. H. Hutchison. 1993. Effect of chlorpromazine, 5-hydroxytryptphan and benserazide on plasma melatonin in the mudpuppy, *Necturus maculosus*. Comparative Biochemistry and Physiology 104C(1):59-164.
- Hutchison, V. H. 1993. Ethics and the byline address. Bulletin of the Ecological Society of America 74(2):180-181.
- Tilden, A. and V. H. Hutchison. 1993. Influence of temperature and photoperiod on serum melatonin in the diamondback water snake, *Nerodia rhombifera*. General and Comparative Endocrinology, 92:347-354.
- Tu, M. and V. H., Hutchison. 1994. Influence of pregnancy on thermoregulation of watersnakes (*Nerodia rhombifera*). Journal of Thermal Biology, 19(4):255-259.
- Tilden, A., W. J. Anderson and V. H. Hutchison. 1994. Melatonin in two species of damselflies, *Ischnura verticalis* and *Enallagma civile*. Journal of Insect Physiology, 40(9):775-780.
- Lutterschmidt, W.I., G.A. Marvin and V. H. Hutchison. 1994. Alarm response by a plethodontid salamander (*Desmognathus ochrophaeus*): Conspecific and heterospecific "Shreckstoff." Journal of Chemical Ecology 20(11):2751-2759.
- Tu, M-C. and V. H. Hutchison. 1995. Lack of postprandial thermophily in diamondback water snakes, *Nerodia rhombifera*. Comparative Biochemistry and Physiology 110A(1):21-25.
- Tu, M-C. and V. H. Hutchison. 1995. Thermoregulatory behavior is not influenced by sex or ecdysis in diamondback water snakes, *Nerodia rhombifera*. Journal of Herpetology 29(1):146-148.
- Tu, M-C. and V.H. Hutchison. 1995. Interaction of photoperiod, temperature, season and diel cycle of thermoregulation of the watersnake, *Nerodia rhombifera*. Copeia, 1995(2):289-293.
- Marvin, G. and V.H. Hutchison. 1995. Avoidance response of adult newts (*Cynops pyrrhogaster* and *Notophthalmus viridescens*) to chemical cues from damaged newt skin. Behaviour, 132 (1-22):95-105.
- Hutchison, V. H. 1995. Historical perspective: Charles C. Carpenter and reptilian behavioral ecology. Herpetological Monographs 9:1-4.
- Marvin, G. and V. H. Hutchison. 1996. Courtship behavior of the Cumberland Plateau woodland salamander, *Plethodon kentucki* (Amphibia: Plethodontidae) with a review of courtship in the genus *Plethodon*. Ethology 102: 285-303.
- Lutterschmidt, W. I., G. Marvin and V. H. Hutchison. 1996. *Rana catesbeiana* (Bullfrog): Record body size. Herpetological Review, 27(2):74-75.
- Lutterschmidt, W. I. and V. H. Hutchison. 1997. The critical thermal maximum (CTMax): History and

- critique. Canadian Journal of Zoology 75:1561-1574.
- Marvin, G. and V. H. Hutchison. Plethodon kentucki. Morphology. 1997. Herpetological Review 28(4):199
- Lutterschmidt, W. I. and V. H. Hutchison. 1997. The critical thermal maximum (CTMax): Data to support the onset of spasms as the definitive endpoint. Canadian Journal of Zoology 75: 1553-1560.
- Lutterschmidt, D., W. I. Lutterschmidt and V. H. Hutchison. 1998. Melatonin and chlorpromazine: Thermal selection and metabolic rate in the bullsnake, Pituophis melanoleucus. Comparative Biochemistry and Physiology, 118C(3):271-277.
- Liner, E. A. and V. H. Hutchison. 1998. Bibliographic accuracy: Importance in herpetological publications. Herpetological Review, 29(2):71-74.
- Hutchison, V. H. 1998. The Lake Titicaca frog (Telmatobius culeus): Adaptations for respiratory gas exchange. 1998 International Symposium on Animal Adaptation, Taipeh, Taiwan. Pp. 9-13 (extended abstract of invited paper).
- Hutchison, V. H. 1998. The Goliath frog (Conraua goliath): Physiological ecology of the largest anuran. 1998 International Symposium on Animal Adaptation, Academia Sinica, Taipeh, Taiwan. Pp. 22-26 (extended abstract of invited paper).
- Lutterschmidt, W. I., D. I. Lutterschmidt, C. R. Tracy and V. H. Hutchison. 1998. Time course analyses of the thermoregulatory responses to melatonin and chlorpromazine in bullsnakes (Pituophis melanoleucus). Journal of Thermal Biology, 23(6):319-327.(actually appeared in 1999).
- Deen, C. M. and V. H. Hutchison. 2001. Effects of lipopolysaccharide and acclimation temperature on behavioral fever in juvenile Iguana iguana. 2001. Journal of Thermal Biology, 26(1):55-63.
- Lutterschmidt, D. I., W. I. Lutterschmidt, N. Ford and V. H. Hutchison. 2002. Behavioral thermoregulation and the role of melatonin in a nocturnal snake. Hormones and Behavior. 41:41-50.
- do Amaral, J. P., G. Marvin and V. H. Hutchison. 2002. Thermoregulation in two species of box turtles, Terrapene carolina and T. ornata. Canadian Journal of Zoology, 80:934-943.
- do Amaral, J. P., G. Marvin and V. H. Hutchison. 2002. The influence of bacterial lipopolysaccharide on the thermoregulation of the box turtle, Terrapene carolina. Physiological and Biochemical Zoology, 75(3):273-282.
- Sanford, G. M., W. I. Lutterschmidt and V. H. Hutchison. 2002. The comparative method revisited. Bioscience 52(9):830-836.
- Lutterschmidt, D. I., W. I. Lutterschmidt, N. B. Ford and V. H. Hutchison. 2002. Influence of thyroid hormones on the thermal selection of African house snakes (Lamprophis fuliginosus). Journal of Thermal Biology, 28(2):176-173.
- Lutterschmidt, D. I., W. I. Lutterschmidt and V. H. Hutchison. 2003. Melatonin and thermoregulations in ectothermic vertebrates: a review. Canadian Journal of Zoology, 81:1-13.
- Hutchison, V. H., James D. Lazell and Ronald Javitch. 2004. Body sway foraging by Yellow-crowned Night Heron. The Wilson Bulletin. 151(30):348-350.
- Marvin, G. A., R. R. Whitekiller and V. H. Hutchison. 2004. Avoidance of chemical alarm cues by salamanders of the genus *Eurycea*: Importance of phylogeny, ecology and methodology Herpetologica 60(1):24-33.
- Hutchison, V.H. 2008. Amphibians: Lungs' Lift Lost [Dispatch] Current Biology 18(9):R393-R393.