

CURRICULUM VITAE

Bernd Heinrich

2015

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EDUCATION

B.A. (Zoology) 1964 University of Maine, Orono

M.S. (Zoology) 1966 University of Maine, Orono

Ph.D. (Zoology) 1970 University of California, Los Angeles
(awarded "with distinction")

Postdoctoral 1970 University of California, Los Angeles

HONORS

Guggenheim Fellow, 1976-77

Harvard Fellow, 1976-77

University of Vermont Scholar in the Biological Sciences, 1985

Alexander von Humboldt Senior Scientist Fellowship Award, 1988-89 (Federal Republic of Germany)

Lady Davis Fellowship (Jerusalem, Israel) 1992

L.L. Winship Book Award (For In a Patch of Fireweed), 1984.

Burroughs Writing Award (For An Owl in the House), ~ 1991.

Rutstrom Authorship Award for Conservation and Environmental Writing
(For A Year in the Maine Woods), 1996.

Sigma Xi Lecturer, 1995-1997

Outstanding Science Trade Book for Children (By Children's Books Council)

Member Vermont Academy of Science and Engineering-1997.

Member Vermont Academy of Arts and Sciences- 1998.

Franklin Fairbanks Award for Contributions of Vermont Culture- 1997.

New England Bookseller's Award for Nonfiction for 1998.

John Burroughs Medal for Nature Writing (for Mind of the Raven) 2000

Honorary Doctorate, University of Maine, Farmington – 1999

Honorary Master of Philosophy & Human Biology – College of the Atlantic, 2006

Honorary Doctorate, Unity College, Maine 1986 and-2000!

Honorary Doctorate of Humane Letters, St. Michaels College, 2008

National Academy of Arts and Sciences. 2004.

Maine Running Hall of Fame, 1996.

Maine Sportsmen's Hall of Fame, 2000.

American Ultrarunning Hall of Fame, 2008.

Sterling College Presidential Stewardship Award, 2014.

University of Maine Achievement Award, 2014

Pen New England Book Award for non-fiction, for Life Everlasting- 2013.

Art Exhibits: "The Naturalist as Artist: the Artist as Naturalist". Fleming Museum,
Burlington, VT. and the L C Bates Museum , Good Will- Hinckley School in
Fairfield, Maine. 2005

TEACHING EXPERIENCE

Assistant Professor, University of California, Berkeley, 1971-75

Associate Prof. UC Berkeley, 1975-1977

Professor of Entomology, University of California, Berkeley, 1978-1981

Professor of Biology, University of Vermont, 1981-2003

Professor Emeritus, 2004-

Presently teaching Winter Ecology

RESEARCH PUBLICATIONS

Heinrich B. 1961. Weasels in Farmington. *Maine Field Naturalist* 17:24-25.

Cook, J.R. and B. Heinrich. 1965. Glucose vs. acetate metabolism in Euglena. *J. Protozoology* 12:581-584.

- Heinrich, B. and J. R. Cook. 1967. Studies on the respiratory physiology of *Euglena gracilis* cultured on acetate or glucose. *J. Protozoology*. 14:548-553
- Cook, J. R. and B. Heinrich. 1968. Unbalanced respiratory growth of *Euglena*. *J. Gen. Microbiol.* 53:237-251.
- Heinrich, B. 1970. Thoracic temperature stabilization in a free-flying moth. *Science* 168: 580-582.
- Heinrich, B. 1970. Nervous control of the heart during thoracic temperature regulation in a sphinx moth. *Science* 169:606-607.
- Heinrich, B. 1971. The effect of leaf geometry on the feeding behavior of the caterpillar of *Manduca sexta* (Sphingidae). *Anim. Behaviour* 19:119-124.
- Heinrich, B. 1971. Temperature regulation of the sphinx moth, *Manduca sexta*. I. Flight energetics and body temperature during free and tethered flight. *J. Exp. Biol.* 54: 141-152.
- Heinrich, R. 1971. Temperature regulation of the sphinx moth, *Manduca sexta*. II. Regulation of heat loss by control of blood circulation. *J. Exp. Biol.* 54:153-166.
- Heinrich, B. and G. A. Bartholomew. 1971. An analysis of preflight warm-up in the sphinx moth, *Manduca sexta*. *J. Exp. Biol.* 55:223-239.
- Heinrich, B. 1972. Temperature regulation in bumblebees, *Bombus vagans*: a field study. *Science* 175:185-187.
- Heinrich, B. 1972. Energetics of temperature regulation and foraging in a bumblebee, *Bombus terricola* Kirby. *J. Comp. Physiol.* 77:49-64.
- Heinrich, B. 1972. Patterns of endothermy in bumblebee queens, drones and workers. *J. Comp. Physiol.* 77:65-79.
- Heinrich, B. and P. H. Raven. 1972. Energetics and pollination ecology. *Science* 176:597-602.
- Kammer, A. E. and B. Heinrich. 1972. Neural control of bumblebee fibrillar muscles during shivering. *J. Comp. Physiol.* 78:337-345.
- Heinrich, B. 1972. Thoracic temperature of butterflies in the field near the equator. *Comp. Biochem. Physiol.* 43A:459-467.
- Heinrich, B. 1972. Physiology of brood incubation in the bumblebee queen, *Bombus vosnesenskii*. *Nature* 239:223-225.
- Heinrich, B. and T. M. Casey. 1973. Metabolic rate and endothermy in sphinx moths. *J. Comp. Physiol.* 82:195-206.
- Bartholomew, G. A. and B. Heinrich. 1973. A field study of flight temperature in moths in relation to body weight and wing loading. *J. Exp. Biol.* 58:123-135.
- Heinrich, B. and A. Kammer. 1973. Activation of the fibrillar muscles in the bumblebee during warm-up, stabilization of thoracic temperature and flight. *J. Exp. Biol.* 58:677-688.
- Heinrich, B. 1974. Thermoregulation in bumblebees. I. Brood incubation by *Bombus vosnesenskii* queens. *J. Comp. Physiol.* 88:129-140.
- Heinrich, B. 1974. Pheromone induced brooding behavior in *Bombus vosnesenskii* and *B. edwardsii* (Hymenoptera: Bombidae). *J. Kansas Ent. Soc.* 47:396-404.
- Heinrich, B. 1974. Thermoregulation in endothermic insects. *Science* 185:747-756.
- Kammer, A. E. and B. Heinrich. 1974. Metabolic rates related to muscle activity in bumblebees. *J. Exp. Biol.* 61:219-227.
- Heinrich, B. 1975. Thermoregulation in bumblebees. II. Energetics of warm-up and free flight. *J. Comp. Physiol.* 96:155-166.
- Heinrich, B. and C. Pantle. 1975. Thermoregulation in small flies (*Syrphus* sp.): Basking and shivering. *J. Exp. Biol.* 62:599-610.

- Heinrich, B. 1975. Bee flowers: A hypothesis on flower variety and blooming times. *Evolution* 29:325-334.
- Heinrich, B. 1975. Energetics of pollination. *Ann. Rev. Ecol. & Syst.* 6:139-170.
- Heinrich, B. 1976. Foraging specializations of individual bumblebees. *Ecol. Mon.* 46:105-128.
- Oster, G. and B. Heinrich. 1976. Why do bumblebees "major"? A mathematical model. *Ecol. Mon.* 46:128-133.
- Heinrich, B. 1976. Heat exchange in relation to blood flow between thorax and abdomen in bumblebees. *J. Exp. Biol.* 64:561-585.
- Heinrich, B. 1976. Resource partitioning among some eusocial insects: Bumblebees. *Ecol.* 57: 874-889.
- Heinrich, B. 1976. Flowering phenologies: bog, woodland, and disturbed habitats. *Ecol.* 57: 890-899.
- Heinrich, B. 1977. Why have some animals evolved to regulate a high body temperature? *Am. Naturalist.* 111:623-640.
- Heinrich, B., P. Mudge, and P. Deringis. 1977. A laboratory analysis of flower constancy in foraging bumblebees: *Bombus ternarius* and *B. terricola*. *Behav. Ecol. and Sociobiol.* 2:247-266.
- Bartholomew, G. A. and B. Heinrich. 1978. Endothermy in African dung beetles during flight, ball making, and ball rolling. *J. Exp. Biol.* 73:65-83.
- Heinrich, B. and T. M. Casey. 1978. Heat transfer in dragonflies: 'Fliers' and 'perchers'. *J. Exp. Biol.* 74:17-36.
- Heinrich, B. and G. A. Bartholomew. 1978. Roles of endothermy and size in inter- and intraspecific competition for elephant dung in an African dung beetle, *Scarabaeus laevistriatus*. *Physiol. Zool.* 52:484-494.
- Allen, T. S., S. Cameron, R. McGinley, and B. Heinrich. 1978. The role of workers and new queens in the ergonomics of a bumblebee colony: Hymenoptera: Apoidea). *J. Kansas Entomological Soc.* 51(3):329-342.
- Heinrich, B. 1979. Resource heterogeneity and patterns of foraging in bumblebees. *Oecologia* 140:235-245.
- Heinrich, B. 1979. "Majoring" and "minoring" by foraging bumblebees, *Bombus vagans*: An experimental analysis. *Ecology* 60:245-255.
- Waddington, K. D. and B. Heinrich. 1979. The foraging movements of bumblebees on vertical "inflorescences": An experimental analysis. *J. Comp. Physiol.* 134:113-117.
- Heinrich, B. 1979. Thermoregulation of African and European honeybees during foraging, attack, and hive exits and returns. *J. Exp. Biol.* 80:217-229.
- Heinrich, B. 1979. Keeping a cool head: Thermoregulation in honeybees. *Science* 205: 269-271.
- Heinrich, B. 1979. Foraging strategies of caterpillars: Leaf damage and possible predator avoidance strategies. *Oecologia* 40:325-337.
- Heinrich, B. 1980. Mechanisms of body temperature regulation in honeybees, *Apis mellifera*. I. Regulation of head temperature. *J. Exp. Biol.* 85:61-67.
- Heinrich, B. 1980. Mechanisms of body temperature regulation in honeybees, *Apis mellifera*. II. Regulation of thoracic temperature at high air temperatures. *J. Exp. Biol.* 85:73-87.
- Heinrich, B. and D. Vogt. 1980. Aggregation and foraging behavior of whirligig beetles (Coleoptera:Gyrinidae). *Behav. Ecol. J. Sociobiol.* 7:179-186.
- Heinrich, B. 1981. The mechanisms and energetics of honeybee swarm temperature regulation. *J. Exp. Biol.* 91:25-55.

- Heinrich, B. 1981. Energetics of honeybee swarm thermoregulation. *Science* 212:565-566.
- Waddington, K. D., T. Allen, and B. Heinrich. 1981. Floral preferences of bumblebees (*Bombus edwardsii*) in relation to variable vs. constant rewards. *Animal Behaviour* 29:779-784.
- Heinrich, B. 1981. The energetics of pollination. *Ann. Miss. Bot. Garden* 68:370-378.
- Heinrich, B. and S. L. Collins. 1983. Caterpillar leaf damage and the game of hide-and-seek with birds. *Ecology* 64:592-602.
- Vogt, F. D. and B. Heinrich. 1983. Thoracic temperature variations in the onset of flight in dragonflies (Odonata: Anisoptera). *Physiol. Zool.* 56:236-241.
- Heinrich, B. 1983. Do bumblebees forage optimally, and does it matter? *Am. Zool.* 23: 273-281.
- Heinrich, B. and M. Heinrich. 1983. Size and caste in temperature regulation by bumblebees. *Physiol. Zool.* 56:552-562.
- Heinrich, B. and M. Heinrich. 1983. Torpor in foraging workers and drones of the bumblebee, *Bombus terricola*. *Physiol. Zool.* 56:563-567.
- Heinrich, B. 1984. Strategies of thermoregulation and foraging in two wasps, *Dolichovespula maculata* and *Vespula vulgaris*. *J. Comp. Physiol. B.* 154:175-180.
- Heinrich, B. and M. Heinrich. 1984. The pit-trapping foraging strategy of the ant lion, *Myrmeleon immaculatus* DeGeer (Neuroptera: Myrmeleontidae) *Behav. Ecol. & Sociobiol.* 14:151-160.
- Real, R. G., Ianazzi, R., Kamil, A. C. and B. Heinrich. 1984. Discrimination and generalization of leaf damage by blue jays (*Cyanocitta cristata*). *Animal Learning and Behavior* 12:202-208.
- Heinrich, B. and T. P. Mommsen. 1985. Flight of winter moths near 0°C. *Science* 228: 177-179.
- Heinrich, B. 1985. Men vs. Women, Marathoners vs. Ultramarathoners. *Ultrarunning* Jan. - Feb. 1985.
- Heinrich, B. and S. L. Buchmann. 1986. Thermoregulatory physiology of the carpenter bee, *Xylocopa varipunctata*. *J. Comp. Physiol. B* 156:557-562.
- Heinrich, B. 1986. Thermoregulation and flight activity of the satyr, *Coenonympha inornata* (Lepidoptera:Satyridae). *Ecology* 67:593-597.
- Heinrich, B. and E. McClain. 1986. "Laziness" and hypothermia as a foraging strategy in lower scarabs (Coleoptera:Scarabaeidae). *Physiol. Zool.* 59:273-282.
- Heinrich B. 1986. Comparative thermoregulation of four montane butterflies of different mass. *Physiol. Zool.* 59:616-626.
- Heinrich, B. 1987. Thermoregulation by winter-flying endothermic moths. *J. Exp. Biol.* 127: 313-332.
- Morgan, K. and B. Heinrich. 1987. Temperature regulation in bee- and wasp-mimicking syrphid flies. *J. Exp. Biol.* 133:59-71.
- Heinrich, B. 1988. Why do ravens fear their food? *Condor* 90:950-952.
- Kukal, O., B. Heinrich and J. Duman. 1988. Behavioral thermoregulation in the freeze-tolerant Arctic caterpillar, *Gynaephora groenlandica*. *J. Exp. Biol.* 138:181-193.
- Heinrich, B. 1988. Raven tool use? *Condor* 90:270-271.
- Heinrich, B. 1988. Winter foraging at carcasses by three sympatric corvids, with emphasis on recruitment by the raven, *Corvus corax*. *Behav. Ecol. & Sociobiol.* 23:141-156.
- Heinrich, B. 1989. Beating the heat in obligate insect endotherms: The nonorganismal problem and the organismal solution. *Am. Zool.* 29:1157-1168.

- Heinrich, B. 1990. Is "Reflectance" basking real? *J. Exp. Biol.* 154:31-43.
- Heinrich, B. and J. Marzluff. 1991. Do common ravens yell because they want to attract others? *Behav. Ecol. & Sociobiol.* 28:13-21.
- Esch, H., F. Goller and B. Heinrich. 1991. How do bees shiver? *Naturwissenschaften* 78:325-328.
- Marzluff, J. and B. Heinrich. 1991. Foraging by common ravens in the presence and absence of territory holders: an experimental analysis of social foraging. *Anim. Behav.* 42:755-770.
- Heinrich, B. 1992. Maple sugaring by red squirrels. *J. Mammal.* 73:51-54.
- Heinrich, B. and J. M. Marzluff. 1992. Age and mouth color in Common Ravens, *Corvus corax*. *Condor* 94:549-550.
- Heinrich, B. and J. M. and C. S. Marzluff. 1993. Ravens are attracted to the appeasement calls of discoverers when they are attacked at defended food. *The Auk* 110:247-254.
- Heinrich, B. and D. F. Vogt. 1993. Abdominal temperature regulation by Arctic bumblebees. *Physiol. Zool.* 66:257-269.
- Cotterman, V. and B. Heinrich. 1993. A large temporary raven roost. *The Auk* 110:395.
- Heinrich, B., D. Kaye, T. Knight and K. Schaumburg. 1994. Dispersal and association among a "flock" of common ravens, *Corvus corax*. *The Condor* 96:545-551.
- Heinrich, B. 1994. Dominance and weight-changes in the common raven, *Corvus corax*. *Anim. Behav.* 48:1463-1465.
- Parker, P. G., F. A. Waite, B. Heinrich & J. M. Marzluff. 1994. Do common ravens share food bonanzas with kin? DNA fingerprinting evidence. *Anim. Behav.* 48:1085-1093.
- Heinrich, B. 1994. When is the common raven black? *Wilson Bull.* 106(3):571-572.
- Heinrich, B. 1994. Does the early bird get (and show) the meat? *The Auk* 111:764-769.
- Heinrich, B. 1995. Neophilia and exploration in juvenile common ravens, *Corvus corax*. *Anim. Behaviour* 50:695-704.
- Heinrich, B. and R. Bell. 1995. Winter food of a small insectivorous bird, the Golden-crowned Kinglet. *Wilson Bulletin* 107(3):558-561.
- Heinrich, B., J. Marzluff and W. Adams. 1996. Fear and food recognition in naive common ravens. *The Auk* 112 (2):499-503.
- Marzluff, J. M., B. Heinrich and C. S. Marzluff. 1996. Roosts are mobile information centers. *Anim. Behaviour* 51:89-103.
- Heinrich, B. 1995. An experimental investigation of insight in common ravens, *Corvus corax*. *The Auk* 112: 994-1003.
- Ybarrondo, B.A. and B. Heinrich. 1996. Thermoregulation and response to competition in the African Dung Ball-Rolling Beetle *Kheper nigroaeneus* (Coleoptera: Scarabaeidae). *Physiol. Zool* 69:35-48.
- Vogt, D. F., B. Heinrich, T. O. Dabolt and H. L. McBath. 1994. Ovary development and Colony founding in subarctic and temperate-zone bumblebee queens. *Can. J. Zoology* 72:1551-1556.
- Vogt, D. F., B. Heinrich, and R. C. Plowright. 1998. Ovarial development in bumblebee queens : The influence of abdominal temperature and food availability. *Can. J. Zool.* 76: 2026-2030.
- Heinrich, B., C.C. Joerg, S.S. Madden and E.W. Sanders Jr. 1997. Black-capped chickadees and Red-breasted nuthatches weigh sunflower seeds. *The Auk* 114: 298-299.
- Heinrich, B. and J. Pepper. 1998. Influence of competitions on caching behavior in the common raven, *Corvus corax*. *Anim. Behav.* 56: 1083-1090.

- Boarman, B. & B. Heinrich, 1999. Common Raven (*Corvus corax*). In: A. Poole and F. Gill. Birds of North America. 476: 1-32.
- Heinrich, B. 1999. Sociobiology of ravens: conflict and cooperation. *Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin* 37: 13-22.
- Heinrich, B. 1999. Planning to facilitate caching: Possible suet cutting by a common raven. *Wilson Bull.* 111: 276-278.
- Stahler, D.R., B. Heinrich and D.W. Smith. 2002. The raven's behavioral association with wolves. *Animal Behaviour* 64:283-290.
- Bugnyar, T. and B. Heinrich. 2003. Hiding in food-caching ravens, *Corvus corax*. *Rev.Ethol.Suppl.*5, 57.
- Heinrich, B. 2004.Overnighting of Golden-crowned kinglets in winter.*Wilson Bull.*115:123-124.
- Bugnyar, T., M. Stoewe and B. Heinrich. 2004. Ravens, *Corvus corax*, follow gaze direction of humans around obstacles . *Proc.R. Soc. Lond. B* 271: 1331-1336
- Woods, W. A. Jr, B. Heinrich and R.D. Stevenson. 2005. Honeybee flight metabolism: does it depend upon air temperature? *J. Exp. Biol.* 208 (6):1161-1173.
- Heinrich, B. and T. Bugnyar. 2005. Testing problem solving in ravens: string-pulling to reach food. *Ethology* 111: 962-976.
- Bugnyar, T. and B. Heinrich, 2005. Food-storing ravens, *Corvus corax*, differentiate between knowledgeable and ignorant competitors . *Proc. R. Soc B* 272: 1641-1646.
- Bugnyar, T. and B. Heinrich. 2006. Pilfering ravens, *Corvus corax*, adjust their behaviour to social context and identity of competitors. *Animal Cognition* 9: 369-376.
- Bugnyar, T., M. Stoewe and B. Heinrich. 2007. The ontogeny of caching behaviour in ravens, *Corvus corax*. *Animal Behaviour* 74: 757-767.
- Heinrich, B. and T. Bugnyar. 2007. Just how smart are ravens? *Scientific American* 296 (4): 64-71.
- Stoewe, M., T. Bugnyar, B. Heinrich and K. Kotrschal. 2006. Effect of group size on approach to novel objects in ravens (*Corvus corax*). *Ethology* 112: 1079-1088.
- Heinrich, B. 2007. The origin of insect thermoregulation. *J. Exp. Biol.* 210: 177-179.
- Bugnyar, T. Schwab, C., Schloegl, Kotrschal, K. and B. Heinrich. 2007. Ravens judge competitors through experience with play-caching. *Current Biology* 17: 1804-1808.
- Stoewe, M., T. Bugnyar, C. Schloegl, B. Heinrich, K. Kotrschal and E. Moestl. 2008. Corticosterone excretion patterns and affiliative behavior over development in ravens (*Corvus corax*). *Hormones and Behavior* 53: 208-216.
- Heinrich, B. 2008. The origin of insect thermoregulation studies. *Journal of Experimental Biology Classics, 1923-1953*: 35-38.
- Heinrich, B. 2011. Conflict, Cooperation and Cognition in the Common Raven. *Advances in Study of Behavior* Vol. 43: 189-234. Academic Press.
- Heinrich, B. 2012. A heretofore unreported instant color change in a beetle, *Nicrophorus tomentosus* Weber (Coleoptera: Silphidae). *Northeastern Naturalist* 19(2): 345-352
- Heinrich, B. 2013. Why does a hawk build with green nesting material? *Northeastern Naturalist* 20(2): 209-218.
- Heinrich, B. 2013 Coordinated mass movement of blow fly larvae Diptera: Calliphoridae) *Northeastern Naturalist* 20(4): N23-N27.
- Heinrich, B. 2013. The Biological Basis of Aesthetics and Art. *Evolutionary Psychology*. www.epjournal.net- 2013, 11(1):1-9.

- Heinrich, B. 2014. Redpoll Snow Bathing: Observations and Hypothesis. *Northeastern Naturalist* 21(4): N45-N52.
- Heinrich, B. 2014. American Chestnut Seed Dispersal and Regeneration. *Northeastern Naturalist* 21(4): 619-629
- Heinrich, B. 2014. The Behavior of an Iris Flower. *Northeastern Naturalist* (subm.).
- Heinrich, B. 2015. The Significance of White Feathers-lining in tree Swallow Nests (subm. to *Northeastern Naturalist*)
- Heinrich, B. 2015. Why Does the Sapsucker Drum ? (in prep.)
- Heinrich, B. 2015. Biology of an Orb-web Spider (in prep.)
- Heinrich, B. 2015. Grouse Snow-denning: a composite strategy. (in prep.)

SEMI-POPULAR AND POPULAR WRITING

- Heinrich, B. and G. A. Bartholomew. 1972. Temperature control in flying moths. *Sci. Amer.* (June) 226:71-77.
- Heinrich, B. 1973. The energetics of the bumblebee. *Sci. Amer.* 228:96-102.
- Heinrich, B. 1976. Bumblebee foraging and the economics of sociality. *Am. Scientist* 64: 384-395.
- Heinrich, B. 1977. The exercise physiology of the bumblebee. *Am. Sci.* 65:455-465.
- Heinrich, B. 1977. The game of the bees. *Horticulture* July 1977:39-45.
- Heinrich, B. and G. A. Bartholomew. 1979. The ecology of the African dung beetle. *Sci. Amer.* 241(5):146-156.
- Heinrich, B. 1980. Artful diners. *Natural History* 86:42-51.
- Heinrich, B. 1981. Energetics of honeybee swarm thermoregulation. *Sci. Am.* 244(6):146-160.
- Heinrich, B. (1986) Ravens on my mind. *Audubon* 88:74-77.
- Heinrich, B. (1986) Why is a robin's egg blue? *Audubon* 88:64-70.
- Heinrich, B. (1987) Pacing: The lesson of the frogs. *Ultrarunning*, July-August, pp. 32-33.
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- Heinrich, B. 1991. Nutcracker Sweets. *Natural History* 2:4-8.
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- Heinrich, B. 1991. From 800 Meters to Ultramarathon. In: *International Ultra Training* (A. Milroy, ed.) pp. 62-69.
- Heinrich, B. 1992. Red Dawn in the Spruce. *The Independent* (London) 1 April. 1992.
- Heinrich, B. 1993. Kinglets' Realm of Cold. *Natural History* 102:4-9.
- Heinrich, B. 1993. Comfort in a hive: heads you're hot, tails you're cold. *Natural History* 102(8):53-55.
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- Heinrich, B. 1993. In The Shallows of The Platte. *Orion* 12(3):42-47.
- Heinrich, B. and H. Esch. 1994. Thermoregulation in Bees. *Am. Sci.* 82:164-170.
- Heinrich, B. 1994. Some like it Cold. *Natural History* 103(2):42-47.
- Heinrich, B. 1994. Of Bedouins, Beetles and Blooms. *Natural History* 103(5):52-59.

- Heinrich, B. 1994. What is Natural? *Discover* 15(6):40-43.
- Heinrich, B. 1995. Insect Thermoregulation. *Endeavour* 19:28-33.
- Heinrich, B. 1995. In Plain Sight. *Natural History*. 7/95:32-40.
- Heinrich, B. 1995. Bumblebee Ecology. *Wild Earth*. Summer 1995:45-47
- Heinrich, B. and Marzluff, J. 1995. How Ravens Share. *American Scientist*. 83:342-349.
- Heinrich, B. 1995. Ravens and the Inaccessible. *Orion* 14 (4):62-63.
- Heinrich, B. 1995. The Keys to Color. *Vermont Woodlands*. Autumn 1995: 19-21.
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- Heinrich, B. 1998. North Woods. *Heron Dance*. 18: 13-14.
- Heinrich, B. 1998. Home Cooking. P.47 In: Eating Between the Lines: A Maine Writers' Cookbook.(ed. P. Doiron).
- Heinrich, B. 1998. A talent for killing. *Outside*. Fall, 1998.
- Heinrich, B. 1999. Caddisfly houses and net traps. In: Insect Lives (E. Hoyt & T. Schultz, eds.) p. 176-178. John Wiley & Sons. Inc. New York.
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- Heinrich, B. 2000. Pheobe Diary. *Natural History* 109(4): 14-15.
- Heinrich, B. 2000. The Artistry of Bird Nests .*Audubon*, 102(5): 24-31.
- Heinrich, B. 2001. Endurance Predator. *Outside*. 25(9): 70-76.
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- Heinrich, B. 2001. Whose Woods? Does Maine need a National Park? *Northern Woodlands/summer* p.22-29.
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- Heinrich, B. 2001. Stretching my Limits. *Highlights for Children*. November 2001, p.32
- Heinrich, B. 2001. Dream Deferred: A 50-mile Road Race. *Ultrarunning* (Jan. '01).
- Heinrich, B. 2002. Grand Opening. *Natural History*. 111(1): 26-27.
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