

Books

Joel Hagen, Douglas Allchin, and Fred Singer, *Doing Biology*, HarperCollins College Publishers, 1996.

Joel B. Hagen, *An Entangled Bank: The Origins of Ecosystem Ecology*, Rutgers University Press, 1992.

Articles

Joel B. Hagen, "The Diving Reflex and Asphyxia: Working Across Species in Physiological Ecology," *History and Philosophy of the Life Sciences* 40 (2018): doi.org/10.1007/s40656-018-0188-z.

Joel B. Hagen, "Bergmann's Rule, Adaptation, and Thermoregulation in Arctic Animals: Conflicting Perspectives from Physiology, Evolutionary Biology, and Physical Anthropology after World War II," *Journal of the History of Biology* 50 (2017): 235 – 265.

Joel B. Hagen, "Camels, Cormorants, and Kangaroo Rats: Integration and Synthesis in Organismal Biology after World War II," *Journal of the History of Biology* 48 (2015): 169 – 199.

Joel B. Hagen, "Emerging Ecologies: Past, Present, and Future," *Historical Studies in the Natural Sciences* 44 (2014): 285-295.

Joel B. Hagen, "Eugene Odum and the Homeostatic Ecosystem: the Resilience of an Idea," in: Darrell Arnold (ed.) *Traditions of Systems Theory*, Routledge (2013), pp. 179-193.

Joel B. Hagen, "Five Kingdoms More or Less: Robert Whittaker and the Broad Classification of Organisms," *BioScience* 62 (2012): 67-74.

Joel B. Hagen, "The Origin and Early Reception of Sequence Databases," in: Michael Hamacher, Martin Eisenacher, and Christian Stephan (eds.), *Data Mining in Proteomics: From Standards to Applications*, Humana Press (2011), pp. 61-78.

Joel B. Hagen, "Datenbanken," in: Philipp Sarasin and Marianne Sommer (eds.), *Evolution: Ein Interdisziplinäres Handbuch*, J.B. Metzler (2010), pp. 175-179.

Joel B. Hagen, "Waiting for Sequences: Morris Goodman, Immunodiffusion Experiments, and the Origins of Molecular Anthropology," *Journal of the History of Biology* (2010) 43: 697-725.

Joel B. Hagen, "Descended from Darwin? George Gaylord Simpson, Morris Goodman, and Primate Systematics," in: Joe Cain and Michael Ruse (eds.) *Descended from Darwin: Insights into American Evolutionary Studies*, American Philosophical Society, 2009.

Joel B. Hagen, "Teaching Ecology during the Environmental Age, 1965-1980," *Environmental History* 13 (2008): 675-694.

Joel B. Hagen, "Frederic Edward Clements," *New Dictionary of Scientific Biography*, Charles Scribner's Sons, 2007.

Joel B. Hagen, "Warder Clyde Allee," *New Dictionary of Scientific Biography*, Charles Scribner's Sons, 2007.

Joel B. Hagen, "Eugene Pleasants Odum," *New Dictionary of Scientific Biography*, Charles Scribner's Sons, 2007.

Joel B. Hagen, "Howard Thomas Odum," *New Dictionary of Scientific Biography*, Charles Scribner's Sons, 2007.

Joel Hagen, "The Statistical Frame of Mind in Systematic Biology from *Quantitative Zoology* to *Biometry*," *Journal of the History of Biology* 36 (2003): 353-384.

Charles Kugler, Joel Hagen, and Fred Singer, "Teaching Statistical Thinking: Providing a Fundamental Way of Understanding the World," *Journal of College Science Teaching* 32 (2003): 434-439.

Joel B. Hagen, "Retelling Experiments: H.B.D. Kettlewell's Studies of Industrial Melanism in Peppered Moths," in: Janet Giltrow (ed.) *Academic Reading: Reading and Writing Across the Disciplines*, 2nd ed., Broadview Press, 2002 (originally published in *Biology & Philosophy* 14 (1999): 39-54).

Fred Singer, Joel B. Hagen, and Robert R. Sheehy, "The Comparative Method, Hypothesis Testing, and Phylogenetic Analysis: An Introductory Laboratory," *The American Biology Teacher* 63 (2001): 518 - 523.

Joel B. Hagen, "The Introduction of Computers into Systematic Research in the United States during the 1960s," *Studies in the History and Philosophy of the Biological and Biomedical Sciences* 32 (2001): 291-314.

Joel B. Hagen, "The Origins of Bioinformatics," *Nature Reviews Genetics* 1 (2000): 231-236.

Joel B. Hagen, "Naturalists, Molecular Biologists, and the Challenges of Molecular Evolution," *Journal of the History of Biology* 32 (1999): 321-341.

Joel B. Hagen, "Using History of Science in College Biology Courses." *History of Science Society Newsletter*. 29 (4)(2000): 1-3.

Joel B. Hagen "Retelling Experiments: H.B.D. Kettlewell's Studies of Industrial Melanism in Peppered Moths." *Biology and Philosophy* 14(1999): 39-54.

Joel B. Hagen, "Kettlewell and the Peppered Moths Reconsidered." *BioScene* 19 (3)(1993): 3-9.

Joel B. Hagen, "Clementsian Ecologists: The Internal Dynamics of a Research Group." *Osiris* 8 (1993): 178-195.

Joel B. Hagen and Charles Kugler, "Using History to Teach Principles of Biology to College Students: The Case of Cell Theory." *History and Philosophy of Science in Science Education* 1 (1992): 471-482.

Joel B. Hagen "Problems in the Institutionalization of Tropical Biology: The Case of the Barro Colorado Island Biological Laboratory." *History and Philosophy of the Life Sciences* 12 (1990): 225-247.

Joel B. Hagen "Research Perspectives and the Anomalous Status of Modern Ecology." *Biology and Philosophy* 4(1989): 433-455.

Joel B. Hagen "Organism and Environment: Frederic Clements's Vision of a Unified Physiological Ecology." in: Rainger, Maienschein, and Benson (eds.), *The American Development of Biology*. Philadelphia. University of Pennsylvania Press, 1988.

Joel B. Hagen, "Ecologists and Taxonomists: Divergent Traditions in Twentieth-Century Plant Geography." *Journal of the History of Biology* 19 (1986): 197-214.

Joel B. Hagen, "Experimentalists and Naturalists in Twentieth-Century Botany: Experimental Taxonomy, 1920-1950." *Journal of the History of Biology* 17 (1984): 249-270.

Joel B. Hagen "The Development of Experimental Methods in Plant Taxonomy, 1920-1950." *Taxon* 32 (1983): 406-416.

Joel B. Hagen and Larry Forslund, "Comparative Fecundity of Four Age Classes of Female Gray-Tailed Voles, *Microtus canicaudus*, in the Laboratory." *Journal of Mammalogy* 60 (1979): 835-837.