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Education: University of Texas at Austin, B.A., Zoology, 1965
University of Montana, M.A., Zoology, 1967
University of Texas at Austin, Ph.D., Zoology, 1970

Research and Professional Experience:

1999–present	Vice President, Information Technologies Cornell University
1999–present	Professor, Ecology and Evolutionary Biology Cornell University
1993–1999	Vice President and Chief Information Officer University of Virginia
1992–1993	Associate Vice President and Chief Information Officer University of Virginia
1992–1999	Professor of Environmental Sciences University of Virginia
1991–1992	Associate Vice President for Information Resources Indiana University
1989–1992	Executive Director, University Computing Indiana University
1989–1992	Adjunct Professor of Computer Science Indiana University, Bloomington
1987–1992	Dean for Academic Computing Indiana University, Bloomington
1986–1992	Adjunct Professor of Women's Studies Indiana University, Bloomington
1983–1992	Professor of Biology Indiana University, Bloomington
1987–1987	Acting Dean/Director, Academic Computing Indiana University, Bloomington
1985–1987	Associate Dean, Academic Computing Indiana University, Bloomington
1983–1987	Associate Dean, Research and Graduate Development, Indiana University, Bloomington

1980	Visiting Associate Professor University of Wisconsin, Madison, Wisconsin
1978	Visiting Research Fellow University of Wisconsin, Madison, Wisconsin
1977-83	Associate Professor of Biology Indiana University, Bloomington
1971-76	Assistant Professor of Zoology Indiana University, Bloomington
1970-71	Postdoctoral Research Fellow Department of Biology, Carleton University, Ottawa

Publications:

1. Randolph (McClure), P.A. 1973. Influence of environmental variability on land snail population properties. *Ecology* 54:933-955.
2. Siddiqui, W., C.A. Barlow, and P.A. Randolph (McClure). 1973. Effects of some constant and fluctuating temperatures on population growth of the pea aphid, *Acyrtosiphon pisum*. *Canadian Entomologist* 105:145-156.
3. Randolph (McClure), P.A. and J.C. Randolph. 1973. Readings in Ecology. MSS Information Corp. New York. 182 pp.
4. Randolph (McClure), P.A., J.C. Randolph, and C.A. Barlow 1974. Age-specific energetics of the pea aphid, *Acyrtosiphon pisum*. *Ecology* 56:359-369.
5. Randolph, J.C., P.A. Randolph (McClure), and C.A. Barlow. 1975. Temporal variations in energetic standing crop of some carabid beetle populations in Eastern Ontario. *Canadian Journal of Zoology* 54:10-18.
6. Barlow, C.A., P.A. Randolph (McClure), and J.C. Randolph. 1977. Effects of pea aphids, *Acyrtosiphon pisum*, on growth and productivity of pea plants, *Pisum sativum*. *Canadian Entomologist* 109:1491-1502.
7. Barlow, C.A. and P.A. Randolph (McClure). 1977. Quality and quality of plant sap available to the pea aphid. *Annals Entomological Society America*. 71:46-48.
8. Randolph (McClure), P.A., J.C. Randolph, K. Mattingly, and M.M. Foster. 1977. Energy costs of reproduction in the cotton rat, *Sigmodon hispidus*. *Ecology* 58(1):31-45.
9. Foster, M.M., P. Vitousek, and P.A. Randolph (McClure). 1980. Effects of ragweed, *Ambrosia artemesiifolia*, on nutrient losses in a first-year-old field. *American Midland Naturalist* 103:106-112.
10. McClure, P.A. and J.C. Randolph. 1980. Relative allocation of energy to growth and development of hemeothermy in the Eastern Woodrat (*Neotoma floridana*) and Hispid Cotton Rat (*Sigmodon hispidus*). *Ecological Monographs* 50(2):199-219.
11. McClure, P.A. 1981. Sex-biased litter reduction in food-restricted woodrats (*Neotoma floridana*). *Science* 211:1058-1060.

12. Mattingly, Kevin and P.A. McClure. 1982. Energetics of reproduction in large-littered cotton rats, Sigmodon hispidus. Ecology 63:183-195.
13. McClure, P.A. 1982. What is physiological ecology? Bull. E.S.A. 63(4):340-347.
14. McClure, P.A. and W.P. Porter. 1983. Development of fur insulation in neonatal cotton rats (Sigmodon hispidus). Physiological Zoology 56:18-32.
15. Porter, W.P. and P.A. McClure. 1984. Climate effects on growth and reproduction potential in Sigmodon hispidus and Peromyscus maniculata. In: International Colloquium on Winter Ecology of Small Mammals, J.F. Merritt (ed.), pp. 173-182. Carnegie Museum of Natural History Special Publication (10).
16. McClure, P.A. 1984. In Search of the Truth. Review of Ruth Bleier's Science and Gender. Women's Studies in Indiana 9(1):1-2.
17. Mattingly, Kevin and P.A. McClure. 1985. Energy allocation during lactation in food restricted cotton rats, Sigmodon hispidus. Ecology, 66(3):928-937.
18. Oswald, C. and P.A. McClure. 1985. Geographic variation in litter size in the cotton rat (Sigmodon hispidus): factors affecting ovulation rates. Biology of Reproduction 33(2):411-417.
19. Porter, W.P., D. Parkhurst, and P.A. McClure. 1986. Critical radius of endotherms. American Journal of Physiology 250 (Regulatory, Integrative, Comparative Physiology 19):R699-R707.
20. Evans, A.M. and P.A. McClure. 1986. Effects of social environment on sexual maturation in female cotton rats (Sigmodon hispidus). Biology of Reproduction 35(5):1081-1087.
21. Oswald, C. & P.A. McClure. 1987. Energy allocation during concurrent pregnancy and lactation in Norway rats with delayed and undelayed implantation. Journal of Experimental Zoology, 241(3):343-357.
22. McClure, P.A. 1987. Energetics of reproduction and life histories of cricetine rodents (Neotoma floridana and Sigmodon hispidus). Symposium of the Zoological Society of London. No. 57:241-258.
23. Cameron, Guy N. and P.A. McClure . 1988. Geographic variation in life history traits of the hispid cotton rat (Sigmodon hispidus). pp. 33-64. In: M. Boyce (ed.) Evolution of Life Histories of Mammals: Theory and Pattern. Yale University Press. 373 pp.
24. Webb, R. and P.A. McClure. 1988. Insulation development in an altricial rodent, Neotoma floridana. Functional Ecology, 2:237-248.

25. Derting, T.L. and P.A. McClure. 1989. Intraspecific variation in metabolic rate and its relationship with productivity in the cotton rat, Sigmodon hispidus. *Journal of Mammalogy*, 70(3):520-531.
26. Stewart, C.A. and P.A. McClure. 1989. Diurnal variation in minimal thermal conductance of three rodents: the white-footed mouse (Peromyscus leucopus), the golden hamster (Mesocricetus auratus), and the eastern woodrat (Neotoma floridana). pp. 659-664. *Proceedings of International Symposium on Thermal Physiology, Tromso. Excerpta Medica International Congress Series. Elsevier, Amsterdam.*
27. Oswald, C. & P.A. McClure. 1990. The energetics of concurrent pregnancy and lactation in hispid cotton rat (Sigmodon hispidus) and the eastern woodrat (Neotoma floridana). *Journal of Mammalogy*.
28. Webb, D.R., P.A. McClure, W. P. Porter. 1990. Development of insulation in juvenile rodents: functional compromise in insulation. *Functional Ecology* 4, 251-256.
29. Webb, D.R., J. L. Fullenweider, L. Profeta, J. Long, P.A. McClure. 1990. Geometry of maternal-offspring contact in an altricial and a precocial rodent. *Physiological Zoology*, 63(4):821-844.
30. Webb, R. and P.A. McClure. Development of heat production in altricial and a precocial rodents: Implications for the energy allocation hypothesis. *Physiological Zoology*.
31. McClure, P.A. Energetic of reproduction and response to restricted food in the eastern woodrat (Neotoma floridana) (manuscript).
32. McClure, P.A. 1987. Planning for academic departmental systems. *SIGUCCS Newsletter* 17(3):19-28.
33. McClure, P.A. 1987. Viewpoint: The crossroads for academic computing. *BACSpace*. March 1987:1-3.
34. McClure, P.A. 1987. Viewpoint: The future of academic computing: faculty workstations. *BACSpace* April 1987:1-4.
35. McClure, P.A. 1987. Viewpoint: The future of academic computing: scholar's network. *BACSpace* May 1987:1-6.
36. McClure, P.A. 1987. Viewpoint: The future of academic computing: electronic libraries. *BACSpace* June 1987:1-6.
37. McClure, P.A. 1987. Viewpoint: The future of academic computing: computers in instruction. *BACSpace*. July 1987:1-7.
38. McClure, P.A. 1987. Viewpoint: The future of academic computing: innovative technology. *BACSpace*. August 1987:1-4.
39. McClure, P.A. 1987. Viewpoint: Welcome to a new academic year. *BACSpace*. September 1987:1-5.
40. McClure, P.A. 1987. Viewpoint: The future of academic computing: research computing. *BACSpace*. October 1987:1-6.

41. McClure, P.A. 1987. Viewpoint: The future of academic computing: the humanities. BACSpace. November 1987:1-3.
42. McClure, P.A. 1988. Viewpoint: Computing in the Big Ten: A comparison. BACSpace. January 1988:2-3,7.
43. McClure, P.A. 1988. Viewpoint: Planning for Departmental Computing. BACSpace. February 1988:2-3.
44. McClure, P.A. and Ronald Jonas. 1988. Viewpoint: Connecting the Scholars' Network and Information Services. BACSpace. April 1988:2-3.
45. McClure, P.A. 1988. Viewpoint: Exciting Year Ahead in Computing. BACSpace. September 1988:2-4.
46. McClure, P.A. 1989. Viewpoint: Innovative Technology: CICA and NeXT. Academic Computing Times. January 1989:4-6,29.
47. McClure, P.A. 1989. Viewpoint: An Integrated Network for IU. Academic Computing Times. February 1989:3-4.
48. McClure, P.A. 1989. Viewpoint: Welcome to Computing at IU. University Computing Times. September 1989:4-5.
49. McClure, P.A. 1989. Viewpoint: Computer Literacy at Indiana University. University Computing Times. October 1989:3-6.
50. McClure, P.A. 1990. Viewpoint: University Computing Services in the 1990s. University Computing Times. January-February 1990:2-3.
51. McClure, P.A. and Mark Sheehan. 1990. Viewpoint: Partnership in Computing. University Computing Times. May-June 1990: 4-6.
52. McClure, P.A. 1990. Viewpoint: Currents in computing: Fall 1990. University Computing Times. September-October 1990:2-4.
53. 1990. C.A., J. Owens, and P.A. McClure. Air flow and convective heat loss from small mammals in laboratory metabolism chambers. *Journal of Thermal Biology* 15: 313-316.
54. McClure, P.A. 1991. Viewpoint: Student computing: Support for the '90's. University Computing Times. March-April 1991.
55. McClure, P.A. 1991. Viewpoint: The campus network: Extending our reach. University Computing Times. November-December 1991.
56. Randolph, J. C., G. N. Cameron, and P. A. McClure. 1992. Nutrient use during reproduction by the hispid cotton rat. (abstract)
57. McClure, P.A. and James G. Williams. 1992. Metamorphosis in Computing Services at Indiana University. *CAUSE/EFFECT*, 15(1):15-25.
58. McClure, P.A. 1992. Organizing information technology - Integration or disintegration. *CAUSE/EFFECT*, 15(3):3-5.

59. Adams, R., R. Bleed, W.M. Chace, T. Ehrlich, P.E. Elsner, V. Gregorian, B.L. Hawkins, J. Kunselman, P.A. McClure, J.G. Neal, J.I. Penrod, J.M. Rosser, M. Taylor, H.D. Todd, and P. Tompkins. 1992. What presidents need to know...about the integration of information technologies on campus. HEIRAlliance Executive Strategies Report #1.
60. McClure, P.A. 1993. Growing our academic productivity. In Robert C. Heterick (ed) Reengineering teaching and learning in higher education: Sheltered groves, camelot, windmills and malls. CAUSE Professional Paper Series #10, pp 41-42.
61. McClure, P.A., Susan F. Stager, Norma Brenner Holland, and Cathy Smith. 1993. Administrative Workstation Project at Indiana University. CAUSE/EFFECT 16(2): 26-33. Paper won the CAUSE Contribution of the Year Award for 1993.
62. Rogowitz, G. and P.A. McClure. Energy export and offspring growth during lactation in cotton rats (Sigmodon hispidus). Functional Ecology.
63. Cameron, G.N., J.C. Randolph and P.A. McClure. Nutritional requirements for reproduction in the hispid cotton rat (Sigmodon hispidus). Journal of Mammalogy.
64. McClure, P.A. 1994. Review of: Reframing Organizations, by Lee G. Bolman and Terrence E. Deal. 1991. Jossey-Bass Inc., 492 pages. CAUSE/EFFECT 17(4): 58.
65. Falduto, E.F., K.C. Blythe, P.A. McClure. 1994. The information age, the people factor, and the enlightened IS manager. CAUSE/EFFECT, Spring 1994.
66. Bleed, Ronald and P.A. McClure. 1995. What Information Resources Managers Need to Understand about the Higher Education Enterprise. CAUSE/EFFECT 18(4): 57-58.
67. Alvarez, Laurence R., Carole A. Barone, P.A. McClure, Martin Ringle, John E. Stuckey and Thomas W. West. 1996. Why Technology? EDUCOM Review 31(3): 24-35.
68. Doucette, Donald S., Ann S. Ferren, James R. Mingle, Polley Ann McClure, Paul Evan Peters, and Kenneth C. Green. 1996. Surveying Technology's New Landscape. Trusteeship: Special Issue 1996: 10-15.
69. McClure, Polley A, John W. Smith, and Toby D. Sitko. 1997. The Crisis in Information Technology Support: Has Our Current Model Reached Its Limit? CAUSE Professional Paper Series, #16.
70. McClure, P. A., 1997. Technology and Learning: What Will "Transformation: Mean for Traditional Universities? virginia.edu 1 (2): <http://www.itc.virginia.edu/virginia.edu/fall97/trans>.
71. McClure, Polley Ann. 1998. Technology and Gender; or Is John Gohl a Sexist: or Is Educom From Mars and CAUSE From Venus? EDUCOM Review 33 (3).
72. McClure, Polley Ann. 1998. Why Policy Matters. CAUSE/EFFECT 21(3): 3-6.
73. McClure, Polley Ann, John W. Smith, Teresa W. Lockard. (1999) Distributed Computing Support" in Diana Oblinger and Richard Katz (Ed) Leading Edge Practices in Higher Education Administration." Anker Publishing, Bolton, Mass.

Papers Presented:

1. McClure, P.A. Energy costs of reproduction in Sigmodon hispidus. Bull. E.S.A. 56(2):21.
2. 1976. McClure, P.A. Energy utilization for reproduction in the eastern woodrat, Neotoma floridana. Bull. E.S.A. 57(1):11.
3. 1976. McClure, P.A. The significance of maternal energy storage during pregnancy to young of the cotton rat, Sigmodon hispidus. Bull. E.S.A. 57(1):11.
4. 1977. Mattingly, K. and P.A. McClure. Comparative reproductive energetics of small-littered and large-littered hispid cotton rats, Sigmodon hispidus. Bull. E.S.A. 58(2):65.
5. 1977. McClure, P.A. Energy ingestion, growth and development of homeothermy in young of Sigmodon hispidus and Neotoma floridana. Bull. E.S.A. 58(2):65.
6. 1977. McClure, P.A. Physiological risk and reproductive effort in Sigmodon hispidus and Neotoma floridana. Bull. E.S.A. 58(2):65.
7. 1980. Mattingly, K. and P.A. McClure. Trade-offs among growth, development and offspring survivorship in food-restricted Sigmodon hispidus. Bull. E.S.A. 61(2).
8. 1980. McClure, P.A. Maternal investment and sex ratio in food-restricted litters of Neotoma floridana. Bull. E.S.A. 61(2).
9. 1980. McClure, P.A. Development of fur insulation in cotton rats. American Zoologist 20(4):733.
10. 1982. Prange, H. and P.A. McClure. Thermoregulatory behaviour of cotton rats: primarily controlled by surface rather than core temperature. Fall Meeting, American Physiological Society.
11. 1983. McClure, P.A. Response of small mammals to acute food restriction during lactation. Second International Theriological Congress, Helsinki.
12. 1983. Porter, W.P. and P.A. McClure. Effect of body size on potential for growth and reproduction in small mammals. Second International Theriological Congress, Helsinki.
13. 1984. Oswald, C. and P.A. McClure. Geographic distribution and copulation influence of ovulation rate in the cotton rat (Sigmodon hispidus). Physiologist 27(4):242.
14. 1984. Webb, R. and P.A. McClure. Modeling mother-pup heat exchange in cotton rats. American Society of Mammalogists.
15. 1984. McClure, P.A. Energetics of growth and reproduction in the life histories of small mammals. Bulletin of the Ecological Society of America 65:58.
16. 1985. Derting, T.L. and P.A. McClure. Intraspecific relationship between production and metabolic rates in Sigmodon hispidus. American Society of Mammalogists.

17. 1985. Cameron, G.N. and P.A. McClure. Geographic variation in life history traits: role of resource availability. International Theriological Congress III.
18. 1985. Smith, J.W. and P.A. McClure. The manipulation of experimental data in the life sciences. Scientific Computing and Automation Conference. Atlantic City, NJ.
19. 1986. Webb, D.R., J. Fullenweider, L. Profeta, J. Long, and P.A. McClure. The geometry of mother love: contact and maternal thermoregulation in altricial and precocial rodents. American Society of Mammalogists.
20. 1986. Webb, D.R., F.M. Knight, P.A. McClure and W.P. Porter. Insulation of mammals and birds: functions and ontogeny. American Zoologist 26(4):524.
21. 1987. McClure, P.A. Planning for Academic Departmental Computing. ACM SIGUCCS. Symposium on Computer Center Management. St. Louis, MO.
22. 1987. Webb, D.R. & P.A. McClure. Differing developmental pathways to homeothermy in two rodents. American Zoologist 27(4):119A.
23. 1988. Stewart, Craig A. and P. A. McClure. Diurnal Variation in Minimal Thermal Conductance of the White-Footed Mouse, Peromyscus Leucopus. American Society of Mammalogists.
24. 1988. Oswald, Christine and P. A. McClure. Energy Allocation During Concurrent Pregnancy and Lactation in the Cotton Rat (Sigmodon hispidus) and the Woodrat (Neotoma floridana). American Society of Mammalogists.
25. 1988. McClure, P.A. Assessing the Impact of Departmental Computerization at Indiana University. ACM SIGUCCS. Symposium on Computer Center Management. St. Louis.
26. 1988. McClure, P.A. and J. Michael . A Guide to Strategic Planning for University Computing. ACM SIGUCCS. Symposium on Computer Center Management. St. Louis.
27. 1989. McClure, P.A. The Pendulum Swings: Decentralization vs. Centralization of Computer Support. ACM SIGUCCS. Symposium on Computer Center Management. St. Louis.
28. 1989. McClure, P.A. Indiana University's Future Information Environment. University-wide Library/Computing Retreat. March 29, 1989.
29. 1989. Stewart, C. & P.A. McClure. Diurnal variation in minimal thermal conductance of three rodents: the white-footed mouse (Peromyscus leucopus), the golden hamster (Mesocricetus auratus), and the eastern woodrat (Neotoma floridana). International Symposium on Thermal Physiology, Tromso, Norway, July, 1989.
30. 1990. McClure, P.A. Strategic Planning for Technology in Universities. Pre-Conference Workshop. ACM SIGUCCS. Symposium on Computer Center Management. St. Louis, MO.
31. 1990. McClure, P.A., Patrick Casey, John T. Hackett, Jim Williams, Vertical Management. Session at EDUCOM '90 Conference. Atlanta, GA.

32. 1990. McClure, P.A, Barry Rubin, Susan Stager, Gerald Pugh. Effectively Merging Administrative and Academic Computing. Session at CAUSE '90 Conference. Miami Beach, FL.
33. 1992. McClure, P.A. Improving academic productivity with information technology. Snowmass Executive Forum. Aug. 7-8, 1992.
34. 1992. McClure, P.A., Geraldine MacDonald, Glen Ricart and Peter Lyman. The future of academic computing. Opening session, Snowmass General Directors Seminar. Aug. 9-12, 1992.
35. 1992. Stager, Sue, Cathy Smith, Norma Holland and Polley McClure. The administrative workstation project at Indiana University. CAUSE 92 Conference, Dallas, TX.
36. 1993. McClure, P.A. Repotting, transplanting, grown...a biologist's view of career change. Snowmass Director's Seminar. Aug. 8-11, 1993.
37. 1993. McClure, P.A. "The Mission". Snowmass New Directors' Seminar. August, 1993.
38. 1994. McClure, P.A. "The Mission". Snowmass New Directors' Seminar. August, 1994.
39. 1994. McClure, P.A. "If We Build It, Will They Come? Education Applications". National Communications Forum. Sept. 19-21, 1994.
40. 1994. McClure, P.A. "Dealing with Technological Change". EACUBO. March 24-25, 1994.
41. 1995. McClure, P.A. "The Technological Frontier". Lecture Series for University of Virginia Associates Program. November, 1994 - February, 1995.
42. 1996. McClure, P.A., John W. Smith, and Toby Sitko. "The Crisis in IT Support. Has Our Current Model Reached Its Limit?" CAUSE Regional Conference, October 12,13, 1996.
43. 1997. McClure, P.A. "The Future of Teaching and Learning: Technology, Culture, and Economics". Online Computer Library Center, Inc., Dublin, Ohio, presentation, March, 1997.
44. 1997. McClure, P.A. "The Crisis in Computing in Higher Education". Council of Senior Administrative Officers Universities of Ontario, Canada. May, 1997.
45. 1997. McClure, P.A. "The Future of 'Traditional' Higher Education: Technology, Economics & Culture. Enablers or Barriers?", Keynote speaker at Administrators Leadership Conference, John Hopkins, Baltimore, Maryland. June, 1997.
46. 1997. McClure, P.A. "Providing Support to a Networked Environment: A New Paradigm". Community College President's Council Fall 1997 Retreat. -- The Community Challenge: Staying Viable in the Information Age. Champaign-Urbana, Illinois. October, 1997.
47. 1997. McClure, P. A. "Change in Higher Education: The Roles of Technology, Culture, and Economics". ACE/Virginia Identification Program Conference. Charlottesville, Va. March, 1997.

48. 1998. McClure, P.A. "The Global Academical Village: Enhancing Education and Community". National Association of Student Personnel Administrators. Philadelphia, Penn. March, 1998.
49. 1998. McClure, P.A. "The Global Academical Village: Enhancing Education and Community". Southern University Conference – Technology, Promises and Perils for Higher Education in the 21st Century. Boca Raton, Florida. March, 1998

Other Work from the Laboratory:

1. Knight, Frank M. The ontogeny of fur insulation in an altricial mouse, Peromyscus leucopus. American Society of Mammalogists.
2. 1986. Derting, Terry. Variation in Life History Traits: Basal Metabolic Rate and Thyroxine Utilization as Regulators of Production in the cotton rat (Sigmodon hispidus). Dissertation awarded the A. Brazier Howell Award for Graduate Research by the A.S.M.
3. 1986. Evans, Alida M. Age at puberty and first litter size in early and late paired rats. *Biology of Reproduction*. 34(2):322–326.
4. 1987. Knight, Frank M. and A. Carbone. Variation in fever responses among woodrats and cotton rats (Neotoma floridana and Sigmodon hispidus). American Society of Mammalogists.
5. 1987. Knight, Frank M. The development of pelage insulation and its relationship to homeothermic ability in an altricial rodent, Peromyscus leucopus. *Physiological Zoology* 60:181–190.
6. 1987. Knight, Frank M. & Angela Carbone. Variation in fever responses among woodrats and cotton rats (Neotoma floridana and Sigmodon hispidus). *American Zoologist*.
7. 1987. Webb, D.R. Thermal tolerance of avian embryos: A review. *The Condor* 89:874–898.
8. 1988. Stewart, C.A. Diurnal variation in minimal thermal conductance of the white-footed mouse (Peromyscus leucopus), the golden hamster (Mesocricetus auratus), and the eastern woodrat (Neotoma floridana). Ph.D. dissertation, Indiana University.
9. 1988. Stewart, C.A. Diet of the rainbow darter (Etheostoma caeruleum) in Rock Run, Clark County, Ohio. *Ohio Journal of Science* 88:198–200.
10. 1988. Webb, D.R. and C. Rogers. Nocturnal energy expenditure of Dark-eyed Juncos roosting in Indiana during winter. *Condor* 90:107–112.
11. 1989. Knight, Frank M. & Christina Cragoe. Heterochrony and skeleton development in an altricial and a precocial Sigmodontine rodent (Neotoma floridana and Sigmodon hispidus). *American Zoologist* 29(4):
12. 1990. Stewart, C.A., J. Owens, and P.A. McClure. Air flow and convective heat loss from small mammals in laboratory metabolism chambers. *Journal of Thermal Biology* 15: 313–316.

13. 1989. Knight, Frank M. & Christina Cragoe. Heterochrony and skeleton development in an altricial and a precocial Sigmodontine rodent (Neotoma floridana and Sigmodon hispidus). *Journal of Evolution*.
14. 1989. Stewart, C.A. A note on microdistribution of the redbacked vole (Clethrionomys gapperi). *Canadian Field-Naturalist*.
15. Rogowitz, Gordon L. Seasonal energetics of the white-tailed jackrabbit (Lepus townsendii). *Journal of Mammalogy*.
16. Rogowitz, Gordon L. and James A. Gessaman. Influence of air temperature, wind and irradiance on metabolism of white-tailed jackrabbits. *Journal of Thermal Biology*.
17. Stewart, C.A. and H.D. Prange. Measurement of respiratory gas exchange and evaporative water loss. I. Derivation of Equations. *Journal of Applied Physiology*.
18. Stewart, C.A. and H.D. Prange. Measurement of respiratory gas exchange and evaporative water loss. II. Error Estimation. *Journal of Applied Physiology*.
19. Cushing, B.S. and E.S. Reese. Tactile communication and the evolution of aggression in the Hawaiian Red Lobster.
20. Cushing, B.S. and L. LeBeck. Foraging in cockroach sticky traps by the spider, Nesticodes rufipes: A super food resource. *Journal of Arachnology*.
21. Rogowitz, Gordon L. Postnatal changes in energy expenditure and thermoregulation in white-tailed jackrabbits. *Journal of Comparative Physiology, B*.
22. Cushing, B.S. and F. Knight. Range extension and the first reported female least weasel in Tennessee. *Journal of Tennessee Academy of Science*.
23. Haigh, G. B.S. Cushing, C.A. Stewart, and F.H. Bronson. Behavioral and metabolic differences between mice (Mus domesticus) from large and small litters.
24. Rogowitz, Gordon L. and Michael L. Wolfe. Intraspecific variation in life-history traits of the white-tailed jackrabbit (Lepus townsendii). *J. Mamm.*
25. Stimson, J. and Cushing, B.S. White Monarchs of Oahu. *Natural History*.
26. Cushing, B.S. and C.A. Stewart. The effect of prenatal litter size on the basal metabolic rate of Mus domesticus. *Physiology & Behavior*.
27. Rogowitz, G. L. Factors in influencing reproductive onset and cessation and breeding effort in a western population of jackrabbits.
28. Rogowitz, G. L. and P. A. McClure. Effects of litter age, litter size and ambient temperature on production and respiration of lactating cotton rats (Sigmodon hispidus). (*Physiological Zoology*).
29. Rogowitz, G.L. A model of energy expenditure and resource use in a population of generalist herbivores (Lepus townsendii). (*Ecology*).

30. Rogowitz, G. L. Environmental correlates of activity pattern in white-tailed jackrabbits. (Animal Behavior).
31. Cushing, B.S. and J.M. Cawthorn. A comparison of activity levels during estrus of nocturnal and diel rodents. Ecology.

Research Grant Support:

1. Grant number: PHS S05 RR7031
Title: The Control of Energy Transfer Rates by Consumer Population Characteristics
Duration: May 1971–May 1973
Amount of Support: \$2,610
2. Grant number: PHS S05 RR7031 Biomedical Sciences
Title: Energy Costs of Reproduction in Sigmodon hispidus and Neotoma floridana
Duration: May 1973–May 1975
Amount of Support: \$3,000
3. Grant number: NSF BMS 75–10962 Randolph
Title: Mechanisms and Significance of Reproductive Effort in Two Small Mammals
Duration: June 1, 1975–November 30, 1977
Amount of Support: \$36,000
4. Grant number: PHS S07 RR7031
Title: Physiological Mechanisms for Correlated Life History Traits
Duration: June 1978–May 1979
Amount of Support: \$1,700
5. Grant number: NIH 1–R01–HD 11264–01,01,03
Title: Physiology and Genetics of Reproduction in Small Mammals
Duration: September 1977–August 1980
Amount of Support: \$79,513 (direct costs)
6. Grant number: NIH 1–R01–HD 13953–01,02,03
Title: Food Energy, Metabolism and Growth of Neonatal Mammals
Duration: April 1980–June 1983
Amount of Support: \$185,698 (direct costs)
7. Grant number: PHS S07 RR7031 McClure
Title: Nutritional Requirements for Reproduction in the Hispid Cotton Rat (Sigmodon hispidus).
Duration: February 1982–September 1983
Amount of Support: \$3,000
8. Grant number: PHS S07 RR 7031L McClure
Title: The Role of Thermal Stress in Regulating Maternal/Young Interactions
Duration: November 1989–November 1990
Amount of Support: \$2,000

Invited Seminars and Colloquia:

1. October, 1979. Midwest Population Biology Symposium, Champaign, Illinois.
2. October, 1979. Department of Zoology, UCLA, Los Angeles, California.
3. October, 1979. Department of Biology, Stanford University, Palo Alto, California.
4. November, 1979. Museum of Vertebrate Zoology, University of California, Berkeley, California.
5. January, 1980. Department of Zoology, Washington University, St. Louis, Missouri.
6. February, 1980. Department of Wildlife Ecology, University of Wisconsin, Madison, Wisconsin.
7. October, 1980. Department of Zoology, University of Kansas, Lawrence, Kansas.
8. October, 1980. Department of Biology, Kansas State University, Manhattan, Kansas.
9. November, 1980. Wisconsin Regional Primate Research Center, Madison, Wisconsin.
10. December, 1980. Veterinary Resources Division, National Institute of Health, Bethesda, Maryland.
11. February, 1981. Department of Biology, Carleton University, Ottawa, Ontario.
12. October, 1981. International Colloquium: Winter Ecology of Small Mammals, Powdermill Nature Reserve, Carnegie Museum.
13. February, 1982. Department of Biology, Northern Arizona University, Flagstaff, Arizona.
14. February, 1982. Department of Zoology, Arizona State University, Tempe, Arizona.
15. March, 1982. Department of Biology, Indiana State University, Terre Haute, Indiana.
16. November, 1983. Department of Biology, University of Pennsylvania, Philadelphia, Pennsylvania.
17. November, 1983. Academy of Natural Sciences, Philadelphia, Pennsylvania.
18. August, 1984. Ecological Society of America Symposium: Mechanistic Approaches to Physiological and Population Ecology of Animals.
19. February, 1985. Department of Biology, University of Houston, Houston, Texas.
20. April, 1985. The Museum, Michigan State University. East Lansing, Michigan.
21. October, 1985. The Brackenridge Field Laboratory Symposium, The University of Texas, Austin, Texas.

22. April, 1986. The Zoological Society of London. London, U.K.

Membership in Professional Organizations:

1. American Association for the Advancement of Science
2. American Society of Zoologists
3. Animal Behavior Society
4. Sigma Xi
5. Ecological Society of America
6. American Society of Mammalogists
7. Association for Computing Machinery
8. CAUSE
9. EDUCOM
10. ACM-SIGUCCS

Teaching Experience:

1. S308 (5 credits, lecture and laboratory). Organismal Physiology (accelerated B.Sc. Majors course).
2. L105 (5 credits, lecture and laboratory). Introduction to Biology (Majors course).
3. Z620 (3 credits, lecture). Mammalian Reproductive Physiology (Ecological Aspects) (Graduate course).
4. L407 (3 credits, lecture and discussion). Biology and Sex Roles (Non-majors course).
5. L474 (2 credits, field course). Field and Laboratory Ecology (Majors course).
6. L473 (3 credits, lecture and discussion). General Ecology (Majors course).
7. S304 (5 credits, lecture and laboratory). Animal Physiology (accelerated B.Sc. majors course).
8. A200 (3 credits, lecture and laboratory). Computer Literacy.
9. USEM 171-0012 (2 credits, Seminar). The Information Superhighway.

Service (University):

1. Independent Learning Program Advisory Committee (1972–present).
2. Environmental Studies Advisory Committee (1972–77).
3. Division of Biological Sciences Educational Policy Committee (1972–77: Chairperson 1976–77).
4. Division of Biological Sciences Committee on Allocation of Stockroom and Teaching Space (1972–73).
5. Director of Kent Farm Research Area (1973–76).
6. Search Committee for Ecologist (1974–75).
7. Experimental Curriculum Committee (1974–76).
8. D.B.S. Committee for Prepare NSF Science–Instructional Equipment Grant (1975–76).
9. Natural Areas Committee (1975–76, 1978–79).
10. Elected Member of Bloomington Faculty Council (1975–77).
11. Faculty Affairs Committee–Bloomington (1975–77).
12. Search Committee–Bloomington Campus Affirmative Action Officer (1975–76).
13. Advisory Committee to Dean Shiner–Associate Dean Position (1976, summer).
14. Search Committee for Academic Advisor and Demonstrators (1976–77).
15. Committee to Consolidate Introductory Biology (Chairperson, 1976–77).
16. NSF Women in Science Steering Committee (1976–78).
17. Zoology Graduate Program Committee (1977–78).
18. Ecology and Evolutionary Biology Program Committee (Coordinator, 1977–78, 1982).
19. Equity Review Committee (1977–78).
20. Student Affirmative Action Committee (1977–78).
21. Grant-in-Aid of Research Reviewer (1978, 1979, 1981).
22. Search Committee for Ecologist (1979–1980).
23. Search Committee for Department Chairperson (1981–82).

24. Graduate School Curriculum Committee (1981–82; 1982–83).
25. Bloomington Campus Promotions Committee (1981–82).
26. Search Committee for Developmental Biologists (1982–83).
27. Committee of Graduate Program Directors (Biology, 1982–84).
28. Director, Graduate Program in Ecology and Evolutionary Biology (1982–84).
29. Advisory Committee to the Chairman (Biology, 1982–83).
30. Research and Graduate Development Fellowship Review Panel (1982–83).
31. Bloomington Campus Tenure Committee (1982–83).
32. Tenure and Promotions Committee (Biology, 1982–84).
33. Committee on Archeological and Ethnographic Resources (1983–84).
34. Engineering Committee (1983–43).
35. Search Committee for Population Biologist (Biology 1983–84).
36. Search Committee for Avian Biologist (1984).
37. Bloomington Campus Computer Users Committee (1982–84).
38. Bloomington Campus Computer Users Committee Executive Committee (1983–1992).
39. Faculty Workstation Subcommittee of BCCUC, Chair (1983–85).
40. Indiana University Telecommunications Policy Committee (1984–1992).
41. Bloomington Campus Human Subjects Committee (1983–1992).
42. Indiana University Biohazards Committee (1983–1992).
43. Bloomington Animal Research Committee (1983–87).
44. Project Director, Bloomington Campus Biomedical Research Support Grant (1983–87).
45. Project Director, Bloomington Campus Minority High School Research Apprentice Program (1983,1984,1985).
46. Search Committee, EEOB, Co-chair (1985–86).
47. Bloomington Telecommunications Committee (1985).
48. Academic Computing Planning Committee (1986).

Service (off-campus):

1. Indiana Senate Environment Committee Task Force on Phosphates in the Environment (1973–74).
2. Bloomington Environmental Commission (1975–76).
3. Chaired Session at E.S.A. Annual Meeting, Tucson (1980).
4. Ecological Society of America Study Committee (1980–81).
5. NSF Postdoctoral Fellowship Review Panel, Chairperson (Fall 1979,1980).
6. NSF Postdoctoral Fellowship Review Panel (Fall 1978, 1979, 1980).
7. Planned Parenthood of South Central Indiana Research Committee Chairperson (1980, 1981, 1982).
8. Planned Parenthood of South Central Indiana Board of Directors (1980, 1981, 1982).
9. EPA Grant Review Panel (1984–85).
10. Physiological Ecology Section Secretary, Ecological Society of America (1983–85).
11. Physiological Ecology Section, Ecological Society of America Acting Chair (1985).
12. SIGUCCS, Assistant Program Chair, Computing Center Management Symposium (1990).
13. SIGUCCS, Program Chair, Computing Center Management Symposium (1991).
14. SIGUCCS, Board Member and Vice Chair (July 1991–June 1993).
15. VERNET Board (1996).
16. Institute for Academic Technology Advisory Board (1996).
17. Snowmass Seminars on Academic Computing, Board of Directors (1996, 1997, 1998).
18. Educom, Elected Member of Nominating Committee (1990–1993).
19. Educom Review's Editorial Advisory Group (1991–1994).
20. EDUCOM '93 Program Committee Vice Chair (1992–1993).
21. EDUCOM '94 Program Committee Chair (1993–1994).
22. Educom Board of Trustees (two elected terms) (1993–1996; 1996–1999).
23. Educom Board of Trustees Secretary (1996, 1997, 1998).
24. Educom NTTF Steering Committee (1996, 1997).
25. CAUSE Current Issues Committee (1992–1993).
26. CAUSE/EFFECT Contributor of the Year Award (1993).
27. CAUSE Board of Directors (1994–1997).

28. CAUSE Board of Directors Chair (December 1994–December 1995; December 1995–December 1996).
29. CAUSE Board of Directors Past Chair (1997).
30. EduCAUSE Board of Directors Founding Member and Secretary (1998)
31. IBM Higher Education Customer Advisory Council (1996–1997).
32. IBM Higher Education Policy Advisory Council (1998–1999).
33. Dell Higher Education Advisory Council (1998–1999).
34. Microsoft Higher Education Advisory Council (1998).
35. EDUCAUSE Board of Directors, Chair (1998–1999)

Graduate students with whom I have worked extensively (* I chaired committee):

1. Margaret Foster. Effects of ragweed, Ambrosia artemesiifolia, on nutrient losses in a first-year-old field. (M.A., 1977)*
2. Kevin Mattingly. Energy costs of reproduction in cotton rats (Sigmodon hispidus) from Tennessee and Kansas under ad lib and restricted food conditions. (Ph.D., 1982)*
3. Alida Evans. Intraspecific social environmental effects on several parameters of reproduction among cotton rats (Sigmodon hispidus). (Ph.D., 1981)*
4. John Wrazen. Feeding patterns of cotton rats (Sigmodon hispidus): seasonal, reproductive, experimental, and physico chemical factors in the selection of natural foods. (Ph.D., 1980).
5. Steve Wade. Glucocorticoid availability during free–operant avoidance behavior in male rats: relations between endocrine response and behavioral performance. (Ph.D., 1983).
6. Mary Brunner. The effect of cellulose–diluted diets on the growth and food consumption of the cotton rat, Sigmodon hispidus. (M.A., 1984)*
7. Jan Fullenwieder. The effects of cellulose–diluted diets on the survival and reproduction of the cotton rat, Sigmodon hispidus. (M.S.E.S., 1984).
8. Chris Oswald. Energetics of concurrent pregnancy and lactation in three species of rodent with different life histories. (Ph.D., 1985).*
9. Terry Derting. The role of thyroid in the determination and evolution of reproductive traits. (Ph.D., 1986).*
10. Ann Kroncke. Effects of maternal deprivation on neonatal woodrats, Neotoma floridana (M.A., 1985).*
11. Craig Stewart. Seasonal and geographical variation in thermal conductance and fur insulation of Peromyscus leucopus. (Ph.D., 1988).
12. Catherine Gehring. Dominance rank and its relationship to geographic origin, frequency of leaving, and plumage variation in captive flocks of immature dark–eyed juncos, (Junco hyemalis). (MA 1985).*
13. Frank Knight. Developmental changes in small mammal thermal physiology (Ph.D., 1992)*