CURRICULUM VITAE - Michael Patrick O'Connor

CONTACT INFORMATION

Department of Biodiversity Earth and Environmental Science

Department of Bioscience and Biotechnology

Drexel University

Philadelphia, PA 19104

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EDUCATION

Niagara University - Lewiston, NY - September 1972-June 1974
St. Vincent's Seminary - Philadelphia, PA - July 1974-November 1974
LaSalle University - Philadelphia, PA - January 1975-June 1977
B.A. Biology June 1977 - Summa Cum Laude

Johns Hopkins University - Baltimore, MD - September 1977-May 1981
M.D. May 1981 - top third of class

Vanderbilt University - Nashville, TN - July 1981-June 1984

Internship and residency - Internal Medicine

Certification in Internal Medicine

National Board of Medical Examiners - September 1984

University of Michigan Biological Station - Pellston, MI - Summers 1976-1979
 Colorado State University - Fort Collins, CO - September 1984 - August 1988
 Department of Biology - Advisor C. Richard Tracy - Ph.D. (1989)

Drexel University - Philadelphia, PA - September 1988 - September 1989

Department of Bioscience and Biotechnology - Supervisor J.R. Spotila - Post-Doctoral Fellow

EMPLOYMENT HISTORY

Drexel University, Department of Biodiversity Earth and Environmental Science - Philadelphia, PA

- Associate Professor September 2012 2020
- Professor September 2020 present

Drexel University, Department of Bioscience and Biotechnology - Philadelphia, PA

- Associate Professor September 1999 present
- Assistant Professor September 1993 September 1999
- Lecturer September 1992 -September 1993
- Visiting Assistant Professor September 1989 September 1992
- Research Post-doctoral /Quantitative Ecology September 1988 September 1989

Larimer County Vocational-Technical Center - Fort Collins, CO

- Instructor - Computer programming - September 1985-June 1988

Vanderbilt University Affiliated Hospitals - Department of Internal Medicine - Nashville, TN

- Resident Physician - Internal Medicine - July 1981-June 1984

University of Michigan Biological Station - Douglas Lake, Pellston, MI

- Research Assistant Plant Survey Summer, 1979
- Teaching Assistant (Physiological Ecology) Summer, 1978

PROFESSIONAL ACTIVITIES

- Member Best Graduate Student Paper Committee
 American Society of Zoologists, Division of Ecology
 1989, 1990, 1992 Annual Meeting (Committee Chair 1989)
- Co-organized Symposium "Biophysical Ecology Methods, Microclimates, and Models" American Society of Zoologists, Division of Ecology 1989 Annual Meeting, Boston, MA.
- Society for Integrative and Comparative Biology
 Division of Ecology and Evolution Program Officer Aug 2007-2010

- Reviewer

Copeia Ecology Journal of Functional Ecology

Physiological & Biochem Zoology Herpetological Monographs Oecologia

Mathematical Biosciences Canadian Journal of Zoology Herpetologica

Journal of Herpetology Journal of Thermal Biology Nature
Conservation Biology American Naturalist Oikos
Journal of Theoretical Ecology Marine Ecology Progress Series PLoS One

Journal of Theoretical Biology

GRANT SUPPORT

- 1985 Program for Ecological Studies Colorado State University Locomotory Performance in Anurans - \$1000
- 1987 Program for Ecological Studies Colorado State University Thermoregulation in Rana pipiens - \$800
- 1990 (Co-principal Investigator PI J.R. Spotila)
 National Science Foundation Physiological Thermoregulatory Capacities of
 Leatherback Sea Turtles (Dermochelys coriacea) \$105,000
- 1991 (Co-principal Investigator PI J.R. Spotila)
 Nature Conservancy / Nevada Department of Wildlife / Bureau of Land Management
 Physiological and Conservation Ecology of the Mojave Desert Tortoise \$480,000
- 1994 Devereux Fellowship Biophysical Ecology of Heating/Cooling in Reptiles \$5000
- 1996 National Science Foundation Extension of an Investigational Learning Undergraduate Program to Upper-division Physiology Courses \$81,651 (\$40,825 NSF with \$40,826 Drexel match).
- 2002 Arthritis Foundation Lower Extremity Alignment in Degenerative Joint Disease (PI = Howard Hillstrom, Temple University School of Podiatric Medicine) \$237K over two years
- 2009 NASA From Earth to Sky (PI = J.R. Spoila) \$493,000 over three years

Declined applications (Most recent first, O'Connor as PI unless noted otherwise)

- NSF #1928382 Thermal physiology of a complex organized system: mechanisms and implications of individual variation for group function Mar 2019 PI: Sean O'Donnell, Co-PI: Michael O'Connor \$527,141
- NSF #1731585 IOS preliminary proposal: Genetics and physiology of thermal biology- integrating individual, social and population biology across tropical landscapes. Jan 2017 PI: Sean O'Donnell, Co-PI(s):Jacob Russell, Michael O'Connor
- NSF #1624387 IOS preliminary proposal: Genetics and physiology of thermal sensitivity-integrating individual, social and population biology across tropical landscapes Jan 2016 PI: Sean O'Donnell, Co-PI(s):Jacob Russell, Michael O'Connor
- NSF #1325732 Preliminary Proposal Environmental Effects on the Gas Exchange, Development, and Metabolism of Buried Eggs Jan 2013
- NSF #1222458 IOS Preliminary Proposal Environmental Effects on the Gas Exchange, Development, and Metabolism of Buried Eggs - Jan 2012
- NSF #1051836 Environmental Effects on the Gas Exchange, Metabolism, and Development, of Buried Eggs July 2010 \$559,086
- NSF #0743417 Physiology of population processes in pond-breeding amphibians exposed to varying land use July 2007 \$360,700
- NSF #0718102 Physiology of population processes in pond-breeding amphibians exposed to varying land use Jan 2007 \$359,522
- NSF #0615639 Physiological underpinnings of population processes in pond-breeding amphibians exposed to varying land use Jan 2006 \$366,363
- NSF #0444658 Collaborative Research: Models of Physiological Effects on Population Dynamic of Ectotherms July 2004 \$68,408
- NSF #0343791 Models of Physiological Effects on Population Dynamics of Ectotherms July 2003 \$53,714
- NSF #0235041 Collaborative Research: Models of Physiological Effects on Population Dynamics of Ectotherms July 2002 \$51,394

PUBLICATIONS

Papers in peer reviewed publications

- Paladino, F.V., M.P. O'Connor, and J.R. Spotila. 1990. Metabolism and heat exchange in the leatherback sea turtle: A warm turtle in a cool ocean. Nature 344:858-860.
- Spotila, J.R., M.P. O'Connor, P.R. Dodson, and F.V. Paladino. 1991. Hot and cold running dinosaurs. Metabolism, body temperature, and migration. Modern Geology 16:203-227.
- Spotila, J.R., M.P. O'Connor, and G.S. Bakken. 1992. The biophysics of heat and mass exchange in amphibians. in Feder, M.E. and W. Burggren, eds. The Ecological Physiology of the Amphibia, University of Chicago Press, Chicago, IL.
- O'Connor, M.P. and C.R. Tracy. 1992. Thermoregulation by juvenile woodhouse toads (Bufo

- woodhousei) in the laboratory and the field. Copeia 1992:865-876.
- O'Connor, M.P. and J.R. Spotila. 1992. Consider a spherical animal: When do short cuts matter in biophysical models? American Zoologist 32:179-193.
- Tracy, C.R., K.A. Christian, M.P. O'Connor, and C.R. Tracy. 1993. Behavioral thermoregulation by *Bufo americanus*: The importance of the hydric environment. Herpetologica 49:375-382.
- O'Connor, M.P., J. S. Grumbles, R.H. George, L.C. Zimmerman, and J.R. Spotila. 1994. Potential hematological and biochemical indicators of stress in free-ranging desert tortoises and captive tortoises exposed to a hydric stress gradient. Herpetological Monographs 8:5-26.
- O'Connor, M.P., L.C. Zimmerman, D.E. Ruby, S. Bulova, and J.R. Spotila. 1994. Home range size and movements by desert tortoises, *Gopherus agassizii* in the eastern Mojave desert. Herpetological Monographs 8:60-71.
- Ruby, D.E., L.C. Zimmerman, S. Bulova, C.J. Salice, M.P. O'Connor, and J.R. Spotila. 1994. Behavioral responses and time allocation differences in tortoises exposed to environmental stress in semi-natural enclosures. Herpetological Monographs 8:27-44.
- Zimmerman, L.C., M.P. O'Connor, S. Bulova, J.R. Spotila, S.J. Kemp, and C.J. Salice. 1994. Thermoregulation by desert tortoises in the eastern Mojave desert: Seasonal patterns of operative and body temperatures, and microhabitat utilization. Herpetological Monographs 8:45-59.
- Shi W-Y, M. Schafer, S. Dubin, M. O'Connor, C. Ozturk, M-C. Chou 1996. Skin temperature and impedance measurement in ultrasound wound treatment. Proc Fifteenth Southern Biomedical Engineering Conference 348 390.
- Paladino, F.V., J.R. Spotila, M.P. O'Connor, and R.E. Gatten, Jr. 1996. Respiratory physiology of adult leatherback turtles (*Dermochelys coriacea*) while nesting on land. Chelonian Conservation and Biology 2:223-229.
- Spotila, J.R., M.P. O'Connor, and F.V. Paladino. 1996. Thermal Biology. In P.L. Lutz and J.A. Musick, eds. The Biology of Sea Turtles. CRC Press, Boca Raton, FL.
- Spotila, L.D., J. Caminis, R. Johnson, K.S. Shimoya, M.P. O'Connor, D.J. Prokop, A. Tenenhouse, and H.S. Tenenhouse. 1996. Vitamin D receptor genotype is not associated with bone mineral density in three ethnic/regional groups. Calcified Tissue International 59:235-237.
- Penick, D.N., J.R. Spotila, M.P. O'Connor, A.C. Steyermark, R.H. George, C.J. Salice, and F.V. Paladino. 1998. Thermal independence of muscle tissue metabolism in the leatherback turtle, *Dermochelys coriacea*. Comparative Biochemistry and Physiology A 120A:399-403.
- O'Connor. M.P. 1999. Physiological and ecological implications of a simple model of heating and cooling in reptiles. Journal of Thermal Biology 24:113-136.
- Dzialowski, E.M. and M.P. O'Connor. 1999. Utility of blood flow to the appendages in physiological thermoregulation of reptiles. Journal of Thermal Biology 24:21-32.

- O'Connor, M.P. and P. Dodson. 1999. Biophysical constraints on the thermal ecology of dinosaurs. Paleobiology 25:341-368.
- O'Connor, M., L.C. Zimmerman, E.M. Dzialowski, and J.R. Spotila. 2000. Operative temperature models for moderate to large sized ectotherms reduction of heterogeneity in model temperatures. Journal of Thermal Biology 25:293-304.
- O'Connor, M. 2000. Extracting estimates of operative temperatures from physical models with significant thermal inertia. Journal of Thermal Biology 25:329-343.
- Dzialowski, E.M. and M.P. O'Connor 2001. Thermal time constant estimation in warming and cooling ectotherms. Journal of Thermal Biology 26: 231-245.
- Dzialowski, E.M. and M.P. O'Connor 2001. Physiological control of warming and cooling during simulated shuttling and basking in lizards. Physiological and Biochemical Zoology 74:679-693.
- Crim, J.L., L.D. Spotila, J.R. Spotila, M. O'Connor, R. Reina, C.J. Williams and F. V. Paladino, 2002. The Leatherback Turtle, Dermochelys coriacea, Exhibits both Polyandry and Polygyny. Molecular Ecology 2002 Oct;11(10):2097-106.
- Dzialowski, E.M. and M.P. O'Connor. 2004. Importance of the limbs in the physiological control of heat exchange in *Iguana iguana* and *Sceloporus undulatus*. Journal of Thermal Biology 29:299–305.
- O'Connor, M.P., A.E. Sieg, and A.E. Dunham. 2006. Linking physiological effects on activity and resource use to population level phenomena. Integrative and Comparative Biology 46:1093–1109.
- O'Connor, M.P., S. J. Kemp, S. J. Agosta, F. Hansen, A. E. Sieg, B. P. Wallace, J. N. McNair, A. E. Dunham. 2007. Reconsidering the mechanistic basis of the metabolic theory of ecology. Oikos 116: 1059-1073.
- O'Connor, M.P., S.J. Agosta, F. Hansen, S.J. Kemp, A.E. Sieg, J.N. McNair, A.E. Dunham. 2007. Phylogeny, regression, and the allometry of physiological traits. American Naturalist 170:431–442.
- Acharya, P., M.P. O'Connor, J.W. Polli, A.Ayrton, H.Ellens & J.Bentz. Kinetic identification of membrane transporters that assist P-gp mediated transcellular transport of digoxin and loperamide through a confluent monolayer of MDCKII-hMDR1 cells. Drug Metabolism and Disposition 36:452–460.
- Zhang, C., P.J. Khandelwal, R. Chakraborty, T.L. Cuellar, S. Sarangi, S.A. Patel, C.P. Cosentino, M.O'Connor, J.C. Lee, R.E. Tanzi, A.J. Saunders. 2007 An AICD-based functional screen to identify APP metabolism regulators. Molecular Neurodegeneration 2:15-24.
- Honarvar, S., M.P. O'Connor, and J.R. Spotila. 2008. Density-dependent effects on hatching success of the olive ridley turtle, Lepidochelys olivacea. Oecologia 157(2):221-30.
- Sieg, A.E., M.P. O'Connor, J.N. McNair, B.W. Grant, S.J. Agosta, and A.E. Dunham. 2009. Mammalian metabolic allometry: Do intraspecific variation, phylogeny, and regression models matter? American Naturalist 174: 720-733

- Zandona, E., S. Auer, S. Kilham, J. Howard, A. López-Sepulcre, M. O'Connor, R. Bassar, A. Osorio, C. Pringle, D. Reznick. 2011. Diet quality and prey selectivity correlate with life histories and predation regime in Trinidadian guppies. Functional Ecology 25:964-973.
- Honarvar, S., J. R. Spotila, and M. P. O'Connor. 2011. Microbial community structure in sand on two olive ridley arribada nesting beaches, Playa La Flor, Nicaragua and Playa Nancite, Costa Rica. Journal of Experimental Marine Biology and Ecology 409:339-344.
- Sullam, K.E., S.D. Essinger, C.A. Lozupone, M.P. O'Connor, G.L. Rosen, R. Knight, S.S. Kilham and J.A. Russell. 2012. Environmental and ecological factors that shape the gut bacterial communities of fish: a meta-analysis. Molecular Ecology 21:3363–3378.
- Bentz, J., M.P. O'Connor, D. Bednarczyk, J. Coleman, C. Lee, J. Palm, Y. Anne Pak, E.S. Perloff, E. Reyner, P. Balimane, M. Brännström, X. Chu, C. Funk, A..Guo, I. Hanna, K. Herédi-Szabó, K. Hillgren, L. Li, E. Hollnack-Pusch, M. Jamei, X. Lin, A.K. Mason, S. Neuhoff, A. Patel, L. Podila, E. Plise, G.G. Rajaraman, L. Salphati, E. Sands, M.E. Taub, J. Taur, D. Weitz, H.M. Wortelboer, C.Q. Xia, G. Xiao, J. Yabut, T. Yamagata, L. Zhang, H. Ellens. 2013. Variability in P-glycoprotein inhibitory potency (IC₅₀) using various in vitro experimental systems: implications for universal digoxin DDI risk assessment decision criteria. Drug Metabolism and Distribution. 41:1347-1366.
- Ellens, H., S. Deng, J. Coleman, J. Bentz, M.E.Taub, I. Ragueneau-Majlessi, S.P. Chung, K. Herédi-Szabó, S. Neuhoff, J. Palm, P. Balimane, L. Zhang, M. Jamei, I. Hanna, M. O'Connor, D. Bednarczyk, M. Forsgard, X. Chu, C. Funk, A. Guo, K. Hillgren, L. Li, A.Y. Pak, E.S. Perloff, G.G. Rajaraman, L. Salphati, J. Taur, D. Weitz, H.M. Wortelboer, C.Q. Xia, G. Xiao, T. Yamagata and C.A. Lee. 2013. Application of receiver operating characteristic (ROC) analysis to refine the prediction of potential digoxin drug interactions. 2013. Drug Metabolism and Distribution. 41:1367-1374.
- Dapp, D., R. Arauz, J.R. Spotila and M.P. O'Connor. 2013. Impact of Costa Rican longline fishery on its bycatch of sharks, stingrays, bony fish and olive ridley turtles (*Lepidochelys olivacea*). Journal of Experimental Marine Biology and Ecology 448:228–239.
- Spotila, J.R., T.A. Radzio, and M.P. O'Connor. 2014. Thermoregulation and energetics of North American tortoises. Pp. 30–36 In D.C. Rostal, H. Mushinsky and E. McCoy (Eds). Biology and Conservation of North American Tortoises. Johns Hopkins University Press, Baltimore, Maryland, USA.
- Neeman, N., J.R Spotila and M.P O'Connor. 2014. A simple, physiologically-based model of sea turtle remigration intervals and nesting population dynamics: effects of temperature. Journal of Theoretical Biology 380:516-523.
- Neeman, N., N.J. Robinson, F.V. Paladino, J.R. Spotila, and M.P. O'Connor. 2015. Phenology shifts in leatherback turtles (*Dermochelys coriacea*) due to changes in sea surface temperature. Journal of Experimental Marine Biology and Ecology 462:113–120.
- Smith, D., P. Lukasik, M.P. O'Connor, A. Lee, G. Mayo, M. Drott, S. Doll, R. Tuttle, R. DiSciullo, A. Messina, K. Oliver, and J. Russell. 2015. Patterns, causes, and consequences of defensive microbiome dynamics across multiple scales. Molecular Ecology 24 (5):1135–1149.

- O'Connor, M., C. Lee, H. Ellens and J. Bentz. 2015. A novel application of t-statistics to objectively assess the quality of IC50 fits for P-glycoprotein and other transporters. Pharma Res Per, 2(5), 2014, e00078.
- Cronin, D.T., S. Woloszynek, W.A. Morra, S. Honarvar, J.M. Linder, M.K. Gonder, M.P. O'Connor, G.W. Hearn. 2015. Long-term urban market dynamics reveal increased bushmeat carcass volume despite economic growth and proactive environmental legislation on Bioko Island, Equatorial Guinea. PloS ONE 10(7): e0134464. doi:10.1371
- Honarvar, S., D. B. Fitzgerald, C. L. Weitzman, E. M. Sinclair, J. M. Esara Echube, M. P. O'Connor, G. W. Hearn. 2016. Assessment of Important Marine Turtle Nesting Populations on the Southern Coast of Bioko Island, Equatorial Guinea. Chelonian Conservation and Biology (May 2016 in CCB 15(1)).
- Cronin, D.T., C. Riacoc, J.M. Linder, R.A. Bergl, M.K. Gonder, M.P. O'Connor, G.W. Hearn. 2016. Impact of gun-hunting on monkey species and implications for primate conservation on Bioko Island, Equatorial Guinea. Biological Conservation 197:180–189.
- Radzio TA, JA Cox, JR Spotila, and M.P. O'Connor. 2016. Aggression, combat, and apparent burrow competition in hatchling and juvenile gopher tortoises. Chelonian Conservation and Biology. 15(2): 231-237
- Honarvar, S., M.C. Brodsky, E.P. Van Den Berghe, M.P. O'Connor, and J.R. Spotila. 2016. Ecology of Olive Ridley sea turtles at arribadas at Playa La Flor, Nicaragua. Herpetologica 72(4):303-308.
- Radzio TA, JA Cox, and M.P. O'Connor. 2017. Hatching success and other reproductive attributes of gopher tortoises in Southwest Georgia. Chelonian Conservation and Biology. Chelonian Conservation Biology 16(1):103-105.
- Radzio, T.A., J.A. Cox, and M.P. O'Connor. 2017. Behavior and conspecific interactions of nesting Gopher Tortoises (*Gopherus polyphemus*). Herpetological Conservation and Biology 12(2):373–383.
- Radzio, T.A. and M. P. O'Connor. 2017. Behavior and temperature modulate a thermoregulation-predation risk tradeoff in juvenile gopher tortoises. Ethology 12:957-965.
- Rock, D.I., A.H. Smith, J. Joffe, A. Albertus, N. Wong, M.P. O'Connor, K. Oliver, J.A. Russell. 2017. Context-dependent vertical transmission shapes strong symbiont community structure in the pea aphid, Acyrthosiphon pisum. Molecular Ecology 27:2039-2056.
- Chaudhry, A., G. Chung, A. Lynn, A. Yalvigi, C. Brown, H. Ellens, M.P. O'Connor, C. Lee and J. Bentz. 2018. Derivation of a system-independent Ki for Pgp-mediated digoxin transport from system-dependent IC50 data by accounting for the contribution of additional digoxin transporters. Drug Metabolism and Disposition January 9, 2018, dmd.117.075606; DOI: https://doi.org/10.1124/dmd.117.075606
- O'Connor, M.P. and S. O'Donnell. 2018. Implications of iterative communication for biological system performance. Journal of Theoretical Biology 436:93-104.
- Baudier, K., C. D'Amelio, E. Sulger, M.P. O'Connor, & S. O'Donnell. 2019. Plastic collective

- endothermy in a complex animal society (army ant bivouacs: *Eciton burchellii parvispinum*). Ecography 42:730-739.
- Baudier K.M., C.L. D'Amelio, R. Malhotra, M.P. O'Connor & S. O'Donnell. 2018. Extreme insolation: climatic variation shapes the evolution of thermal tolerance at multiple scales. American Naturalist 192: 347-359.
- Radzio, T.A., N.J. Blase, J.A. Cox, D.K. Delaney, and M.P. O'Connor. 2019. Behavior, growth, and survivorship of laboratory-reared juvenile gopher tortoises following hard release. Endangered Species Research 40: 17–29,
- Woloszynek, S., J.C., Mell, Z. Zhao, G. Simpson, M.P. O'Connor, G.L. Rosen. 2019. Exploring thematic structure and predicted functionality of 16S rRNA amplicon data. PLoS ONE 14(12): e0219235.
- Smith, A.H. M.P. O'Connor, B. Deal, C. Kotzer, A. Lee, B. Wagner, J. Joffe, S. Woloszynek, K.M. Oliver, J.A. Russell. 2021. Does getting defensive get you anywhere?—Seasonal balancing selection, temperature, and parasitoids shape real-world, protective endosymbiont dynamics in the pea aphid. Molecular Ecology 30(10):2449-2472.
- Carpenter, M.; Peng, L.; Smith, A.H.; Joffe, J.; O'Connor, M.; Oliver, K.M.; Russell, J.A. 2021. Frequent Drivers, Occasional Passengers: Signals of Symbiont-Driven Seasonal Adaptation and Hitchhiking in the Pea Aphid, Acyrthosiphon pisum. Insects 2021, 12, 805. https://doi.org/10.3390/insects12090805

Unreviewed or Less Formally Reviewed Publications

- Spotila, J.R. and M.P. O'Connor. 1992. Introduction to the workshop: Biophysical ecology: Methods, microclimates, and models. American Zoologist 32:151-153.
- Henen, B., L.C. Zimmerman, M.P. O'Connor, and J.R. Spotila. 1992. Body composition and water flux of desert tortoises (*Xerobates agassizii*) at the Desert Tortoise Conservation Center, Las Vegas, NV. Desert Tortoise Council Symposium Proceedings 1992: 95-96.
- Zimmerman, L.C., M.P. O'Connor, S.J. Kemp, and J.R. Spotila. 1992. Thermoregulation by desert tortoises at the Desert Tortoise Conservation Center, Las Vegas Nevade: Results of preliminary studies. Desert Tortoise Council Symposium Proceedings 1992:103-108.
- Spotila, J.R., M.P. O'Connor, L.C. Zimmerman, and D.E. Ruby. 1994. Introduction: conservation biology of the desert tortoise. Herpetological Monographs 8:1-4.

Papers in revision

PAPERS AT PROFESSIONAL MEETINGS

- 1985 Ecological Society of America (Minneapolis, MN)

 A cost/benefit analysis of thermoregulation in ectotherms.
- 1987 Ecological Society of America (Columbus, OH)

 Thermal physiology and ecology in six species of anurans.
- 1987 American Society of Zoologists (New Orleans, LA)
 A field study of thermoregulation in *Rana pipiens*.
- 1988 Ecological Society of America (Davis, CA)
 Thermoregulation by juvenile woodhouse toads (*Bufo woodhousei*) in field & laboratory.
- 1988 American Society of Zoologists (San Francisco, CA)

 The sensitivity of frog body temperatures to environmental influences.
- 1989 Ecological Society of America (Toronto, Ontario)

 Effects of season, climate, and microhabitat on the energetics of slider turtles.
- 1989 First World Congress of Herpetology (Canterbury, Great Britain)
 J.R. Spotila and M.P. O'Connor. Eggs as organisms: Difficulties of staying in one place.
- 1989 American Society of Zoologists (Boston, MA) O'Connor, M.P. and J.R. Spotila - Consider a spherical animal: When do short cuts matter?

Dobkin, D.S., R.D. Gettinger, and M.P. O'Connor. - Importance of retreat sites for hydration state in *Bufo marinus* during a dry rainy season.

Paladino, F.V., M.P. O'Connor, and J.R. Spotila. Metabolic rates and thermoregulation of leatherback sea turtles: How to stay warm in a cold ocean.

- 1990 American Society of Zoologists (San Antonio, TX)

 Effects of Blood flow on body temperatures and thermoregulation in ectotherms.
- 1991 Desert Tortoise Council (Las Vegas, NV)

 J.R. Spotila et al. Conservation biology of desert tortoises in the Las Vegas area.
- 1991 Society for Vertebrate Paleontology (San Diego, CA)M.P. O'Connor, P.R. Dodson, J.R. Spotila, and F.V. Paladino. Temperatures and metabolism of large reptiles.
- 1992 Desert Tortoise Council (Las Vegas, Nevada)
 Grumbles, J., L.C. Zimmerman, and M.P. O'Connor. Experience with the upper respiratory distress syndrome at the Desert Tortoise Conservation Center, Las Vegas, Nevada.
 - Henen, B., L.C. Zimmerman, and M.P. O'Connor. Lipid and water stores in desert tortoises at the Desert Tortoise Conservation Center, Las Vegas, Nevada.
 - O'Connor, M.P., L.C. Zimmerman, J. Grumbles, and R. George. Hematologic and chemical

indicators of stress in tortoises at the Desert Tortoise Conservation Center, Las Vegas, Nevada.

Zimmerman, L.C., M.P. O'Connor, S. Kemp, and J.R. Spotila. Thermal biology of free ranging desert tortoises at the Desert Tortoise Conservation Center, Las Vegas, Nevada.

1992 - American Society of Zoologists (Vancouver, B.C.)

Modelling effects of blood flow on body temperatures and heating/cooling rates in ectothermic vertebrates.

Zimmerman, L.C., M.P. O'Connor, and J.R. Spotila. Available and actual body temperatures of free-ranging desert tortoises.

1993 - Desert Tortoise Council (Palm Springs, CA)

O'Connor, M.P., J. S. Grumbles, R.H. George, L.C. Zimmerman, and J.R. Spotila. Hematological and biochemical indicators of stress in free-ranging desert tortoises and captive tortoises exposed to a hydric stress gradient.

O'Connor, M.P., L.C. Zimmerman, D.E. Ruby, S. Bulova, and J.R. Spotila. Home range size and movements by desert tortoises, *Gopherus agassizii* in the eastern Mojave desert.

Ruby, D.E., L.C. Zimmerman, S. Bulova, C.J. Salice, M.P. O'Connor, and J.R. Spotila. Behavioral responses and time allocation differences in tortoises exposed to environmental stress in semi-natural enclosures.

Zimmerman, L.C., M.P. O'Connor, S. Bulova, J.R. Spotila, S.J. Kemp, and C.J. Salice. Thermoregulation by desert tortoises in the eastern Mojave desert: Seasonal patterns of operative and body temperatures, and microhabitat utilization.

1994 - Herpetologist's League - Athens, GA

O'Connor, M.P. Heating and cooling in reptiles: modelling effects of size and blood flow.

1994 - North American Tortoise Symposium - Torrean, Mexico

O'Connor, M.P., J.R Spotila, L.C. Zimmerman, and C.R. Tracy. Physiological ecology of the Desert Tortoise. Constraints on behavior, feeding, and keeping up with the Jonses.

1994 - Society for Vertebrate Paleontology - Seattle, WA.

O'Connor, M.P. and P. Dodson. Physical constraints on the energy metabolism and thermal ecology of dinosaurs.

1998 - Dinofest - Scientific Symposium - Philadelphia, PA

O'Connor, M.P. and P. Dodson. Modeling biophysical constraints on dinosaur thermal and metabolic biology.

1998 - Ecological Society of America - Baltimore, MD

O'Connor, M.P. Granularity of thermal habitats and thermoregulation in lizards.

Dzialowski, E.M. and M.P. O'Connor. Physiological control of heat exchange and thermoregulation in iguanas.

- 1999 Society for Integrative and Comparative Biology Denver, CO O'Connor, M.P. Calculating operative temperatures from models with large time lags.
 - Dzialowski, E.M. and M.P. O'Connor. Physiological control of heat exchange and thermoregulation in iguanas.
- 1999 American Society of Ichthyology and Herpetology
 O'Connor, M.P. Extracting operative temperatures from physical models with thermal inertia.
 - Dzialowski, E.M. and M.P. O'Connor. Physiological control of heat exchange and thermoregulation in iguanas.
- 2000 Society for Integrative and Comparative Biology Atlanta, GA O'Connor, M.P. Effect of shape & orientation of Te models on operative temperatures.
 - Dzialowski, E.M. and M.P. O'Connor. Control of blood flow and heat exchange in lizards.
- 2001 Society for Integrative and Comparative Biology Chicago, IL O'Connor, M.P, L.C. Zimmerman, and J.R. Spotila.. Effects of tortoise behavior, physiology, and habitat on thermoregulation in desert tortoises..
- 2002 Society for Integrative and Comparative Biology Anaheim, CA O'Connor, M.P. Estimating heat loss coefficients in ectotherms near obstructions.
- 2002 Desert Tortoise Council, Palm Springs, CA O'Connor, M.P. Proposed tortoise physiology research at Fort Irwin, CA.
- 2004 Society for Integrative and Comparative Biology New Orleans, LA O'Connor, M.P. Heat transfers for animals near the ground.
- 2005 Society for Integrative and Comparative Biology San Diego, CA Dunham, A.E. and M.P. O'Connor. Connecting physiology to demography and life history in ectotherms
 - O'Connor, M.P. Importance of upstream flow obstructions to convective heat exchange in terrestrial ectotherms
- 2006 Society for Integrative and Comparative Biology Orlando, FL
 - O'Connor, M.P., A.E. Sieg, and A.E. Dunham. Linking physiological effects on activity and resource use to population level phenomena. Symposium on "Contributions of Energetics to Conservation Biology"
 - Sieg. A.E., M. P. O'Connor, A.E. Dunham. Exploring the possible radiative origins of interspecific metabolic allometries
- 2006 LEAP Research Conference 8/14-15 Orino, Maine Sieg, A.E., M.P. O'Connor, and J.R. Spotila - Water exchange mediated limitations on anuran activity
- 2007 Society for Integrative and Comparative Biology Phoenix, AZ

- O'Connor, M.P., S.J. Agosta, F. Hansen, S.J. Kemp, A.E. Sieg, J.N. McNair, AE. Dunham. Phylogeny, regression, and the allometry of physiological traits.
- Sieg, A.E., M.P. O'Connor, and J.R. Spotila. Land use effects on wood frog (*Rana sylvatica*) biophysical ecology.
- Honarvar, S., M.P. O'Connor, and J.R. Spotila. Density-dependent effects on hatching success in Olive Ridley sea turtles
- 2008 Society for Integrative and Comparative Biology San Antonio, TX
 - O'Connor, M. P., Honarvar, S., Spotila, J. R. Tidal ventilation and sea turtle egg incubation and development
 - Sieg, A.E., O'Connor, M.P., Dunham, A.E., Spotila, J.R. Linking amphibian physiology to physical characteristics of its forestry-altered habitat
- 2008 Gordon Research Conference Metabolic Basis of Ecology July '08 Univ. of New England
 - O'Connor, M. P. Complications on the way to a theory of metabolic ecology
 - Sieg, A.E., O'Connor, M.P. Allometric expressions for metabolic rates of mammals reconsidered
- 2009 Society for Integrative and Comparative Biology Annual Meeting Boston, MA 1/3-1/7/09 O'Connor, M.P., S. Honarvar, P. Sotherland, J.R. Spotila. Biophysical factors affecting gas exchange in sea turtle nests
 - Sieg, A.E., M.P. O'Connor, et al. Orthogonal regression and phylogenetic correction applied to mammalian metabolic allometry
- 2009 International Society of Zoological Sciences 3rd International Symposium of Integrative Zoology Beijing China 8/8-8/10/09
 - O'Connor, M.P. ., S. Honarvar, P. Sotherland, J.R. Spotila. Convective ventilation of sea turtle nests by tidal water table excursions
 - Honarvar, S., M.P. O'Connor, J.R. Spotila. Microbial community structure in sand on two olive ridley nesting beaches.
- 2009 Society for Conservation Biology 23rd International Congress for Conservation Biology Beijing China 8/11-8/16/09
 - O'Connor, M.P., S. Honarvar, P. Sotherland, J.R. Spotila. Environmental factors affecting gas exchange in sea turtle nests
 - Sieg, A.E., M. P. O'Connor, J.R. Spotila. Forestry practices and the physiology, ecology and conservation of pond breeding amphibians
- 2010 Society for Integrative and Comparative Biology Annual Meeting Seattle, WA 1/3-1/7/10
 M.P. O'Connor, J. Suss, P. Sotherland, and J.R. Spotila. Diffusive and conductive effects of sand on gas exchange in sea turtle nests
- 2011 Society for Integrative and Comparative Biology Annual Meeting Salt Lake City, UT 1/3-7/11
 - M.P. O'Connor, S. Honarvar, P. Sotherland, and J.R. Spotila. Environmental factors affecting gas exchange in sea turtle nests
 - J.S. Suss,, M.P. O'Connor, J.R Spotila. Loggerhead turtle nest metabolism and gas exchange in Greece

- 2011 International Sea Turtle Symposium San Diego, CA 3/11-3/16/2011
 - M.P. O'Connor, S. Honarvar, P. Sotherland, and J.R. Spotila. Environmental effects on gas exchange in sea turtle nests
 - S. Honarvar, M.P. O'Connor, and J.R, Spotila Nest depth and effects on gas exchange in leatherback turtle nest on Bioko, Equatorial Guinea
- 2012 Society for Integrative and Comparative Biology Annual Meeting Charleston, SC 1/3-7/2012
 - Suss, J.S., Honarvar, S., Spotila, J.R., O'Connor, M.P. Beach characteristics affect the gas exchange environment for sea turtle nests
 - Suss, J. S., Patel, S., Neeman, N., Panagopoulou, A., Riggall, T., Margaritoulis, D., O'Connor, M.P., Spotila, J.R. Gas exchange and hatching success in loggerhead turtle nests in Greece
- 2012 32nd Annual Symposium on Sea Turtle Biology and Conservation, Oaxaca, Mexico 3/13-16, 2012
 - Suss, J.S., S. Honarvar, J.R. Spotila, A. Panagopoulou,, and M.P. O'Connor, Beach characteristics affect the gas exchange environment for sea turtle nests
- 2014 Society for Integrative and Comparative Biolgy, Austin TX, Jan 3-7, 2014
 Neeman, N, Espinoza, M, Farrugia, T.J, Lowe, C.G, Sobel, M.J, O'Connor, M.P. Using a
 Hidden Markov Model to find foraging areas for the gray smooth-hound shark
 (Mustelus californicus) in a full tidal basin
 - Cronin, D.T., Woloszynek, S., Morra, W., Honarvar, S., Linder, J., O'Connor, M.P., Hearn, G.S. Long term monitoring of a bushmeat market in Bioko, Equatorial Guinea
 - Radzio, T.A., O'Connor, M.P. Does burrow temperature constrain antipredator behavior in juvenile gopher tortoises?
- 2015 Society for Integrative and Comparative Biolgy, West Palm Beach, FL, Jan 3-7, 2015 Radzio, T.A., M.P. O'Connor. Behavioral thermoregulation and thermal constraints on growth in juvenile gopher tortoises.
 - Neeman, N, M.J. Sobel, M.P. O'Connor. A particle learning approach to tracking moving animals.
- 2016 Society for Integrative and Comparative Biolgy, Portland, OR, Jan 3-7, 2016 Neeman, N., J.R.Spotila, M.P.* O'Connor, A physiologically-based model of sea turtle remigration intervals
 - Radzio, T.A., M.P. O'Connor. Behavior and short-term survival of captive-reared yearling gopher tortoises following hard release
- 2017 Annual Meeting of the Gopher Tortoise Council. Palatka, Florida Radzio TA and MP O'Connor. Behavioral thermoregulation and thermal constraints on growth in juvenile gopher tortoises.
- 2017 Annual Meeting of the Gopher Tortoise Council. Edgefield, South Carolina (2017) Radzio TA and MP O'Connor. Behavior and survival of captive-reared yearling gopher tortoises following hard release.
- 2018 Society for Integrative and Comparative Biology January 2018 San Francisco

O'Connor, M.P. and S. O'Donnell - Iterative signaling and biological system performance

- 2019 Society for Integrative and Comparative Biology January 2019 Tampa O'Connor, M.P., N. Neeman, and J.R. Spotila. Physiological influences on sea turtle remigration intervals.
- 2020 Society for Integrative and Comparative Biology January 3-7, 2020 Austin, TX Giancarli, S.M., A.E. Dunham, M.P. O'Connor. Examining metabolic allometry among birds: A phylogenetic approach.
- 2021 Society for Integrative and Comparative Biology January 3-7, 2021 Remote/online Giancarli, S.M., A.E. Dunham, M.P. O'Connor. Preliminary review of metabolic allometry in squamate reptiles: mass and temperature effects.

COURSES TAUGHT

As primary instructor

Human Physiology 1 and 2 Human Physiology Lab **Biometry** Advanced Human Physiology Comparative Physiology Data Analysis Physiological Ecology Biophysical Ecology **Biostatistics** Community & Ecosystem Ecology Community Ecology Lab Vertebrates Physiological & Population Ecology Ecological Modeling Histology

Excel for Biological Data Analysis

Medical Sciences I -(Cell biology and physiology for new graduate students)

(Organismal physiology for new graduate students) Medical Sciences 2 -

Graduate Student Research Seminar -(Tutorial in seminar presentation)

Modeling Methods in Biology 1 -(Math from functions to differential equations for

advanced biology undergrads & grad students)

Modeling Methods in Biology 2 -(Modeling methods and practicum)

(Engineering mechanisms underlying physiology) Living Engine

As seminar instructor or lecturer in team approach

Freshman biology for engineers **AIDS 101**

Ecology Seminar-(Central ideas of ecology for grad students)

Biology, Medicine, and You - (Honors course focusing on biological bases of medicine)

Univ 101 (Introduction to University, college, and Department)

Form, function and evolution of the vertebrates

Histology

Schedule Specifics

| Course | Level (Grad, UG) | Currently required in | Years | Schedule | Student per yr |
|---------------|---------------------|-------------------------|------------------------|------------------|-------------------|
| Human Phys 1 | UG | Biol (UG) Biomed Eng | 1989-1992 2002-pres | 1-2x/yr 2x/yr | 220 |
| Human Phys 2a | UG | | 1990-1993 | 1-2x/yr | 18 |

| Human Phys 2b | UG | Biol (UG) Biomed Eng | 2015 | 1-2x/yr | 75 |
|---|----------|-------------------------|------------------------------------|--|-----------------|
| Human Phys Lab | UG | Biol /Biomed | 2002-pres | 2x/yr | 60 |
| Comparative Phys | UG | | 1991-2001 2009 | every year | 40-90 |
| Biometry | Grad, UG | Biol (UG) | 1994-2008 | every year, fall or spring | 100 |
| Data Analysis | Grad, UG | Biol (UG) | 2005-2008 | Summer-winter | 100 |
| Models 1 | Grad, UG | | 1994-2000 | every other fall | 16 |
| Models 2 | Grad, UG | | 1994-2012 | prev. every other year now, occasionally | 20 |
| Grad Stud Rsch Sem | Grad | | 1992-2001 | every fall, winter, spring | 24 ¹ |
| Sem. in Bioscience | Grad, UG | | 1993-1996 | fall, winter, spring | 75 |
| Medical Science 1 | Grad | Biomed Eng | 1991-2001 | every fall | 25 |
| Medical Science 2 | Grad | Biomed Eng | 1991-1997, 2002 | every winter | 25 |
| Biophysical Ecology | Grad, UG | | 1991, 1997, 2006-pres | now, every other winter | 9 |
| Community & Ecosystem Ecology | UG | BEES | 2009- | every fall | 18 |
| Community Ecology Lab | UG | | 2009-2014 | every fall | 15 |
| Physiological and Population Ecology | UG | BEES | 2018- | winters | 15 |
| Physiological Ecology | Grad, UG | | 1991, 1994, 1997, 2007- pres | now, every other winter | 10 |
| Ecological Modeling | Grad | | 2011 | fall (as needed) | 10 |
| Biostatistics | Grad | BEES/Bio | 2010-pres | every spring | 30 |
| Vertebrates | UG | Biol (UG) | 2011-2018 | every winter | 100 |
| Histology | UG | | 2015 | spring | 24 |
| Excel for Ecology | UG | | 2016 | winter | 24 |
| Seminar in Ecology | Grad | | 1993-2014 | every fall, winter, spring | 0^2 |

¹most student presenters do not register
²I participate but am not instructor of record

GRADUATE STUDENT MENTORING

Students for whom I serve as major advisor

| Edward Dzialowski | - MS - 1995 | Thesis - Biophysics of thermoregulation |
|-------------------|--------------|---|
| | - PhD - 1999 | Thesis - Biophysics of thermoregulation |
| Annette Sieg | - PhD - 2010 | Thesis - Phys ecology of resource budgets |

Boris Sorkin - PhD - Transferred to Northern Illinois

Jack Suss- PhD - 2012Thesis - Sea turtle nest respirationSharon Thurston- MS - 2012Thesis - Impacts of watershed alteration

on Florida creeks

Noga Neeman - PhD 2015 Thesis - Sea turtle phys / pop ecology Thomas Radzio - PhD 2017 Thesis - Gopher tortoise ecology

Samantha Giancarli - PhD - anticpated graduation 2023

Students on whose thesis committees I serve(d)

A. Department of Bioscience and Biotechnology/BEES

Current PhD students

Current MS students Virginia Caponera

Tyler Anders-Bray Meghan Barrett

Xiao Bi

Ben Bechade

Christian Cabuslay

Melissa Carpenter

Bryan Featherstone

Steve Miller

Linyao Peng

Dana Venditti

Graduated PhD students

| Deep Agnani | PhD Defended Spring 09 |
|-------------------------|------------------------|
| Annie Albin | PhD Defended Spring 11 |
| Poulomi Archarya | PhD Defended Spring 07 |
| Kaitlin Baudier | PhD Defended Spring 16 |
| Barbara Bell | PhD Defended Spring 05 |
| Walter Bien | PhD Defended Fall 99 |
| Demetrio Bokuna | PhD Defended spring 14 |
| Anna Dutra Clark | PhD Defended Spring 96 |
| Paul Sesink Clee | PhD Defended Spring 16 |
| Susana Clusella Trullas | PhD Defended Winter 05 |
| Charlene Compher | PhD Defended Spring 99 |
| Chris Coughenour | PhD Defended Spring 09 |
| Drew Cronin | PhD Defended Fall 13 |
| Amanda Curtain | PhD Defended Fall 05 |
| Sanhita Datta | PhD Defended Winter 00 |
| Jeanette Dumas | PhD Defended Spring 96 |
| Victoria Egerton | PhD Defended Fall 11 |
| Jennifer Elwood | PhD Defended Fall 03 |
| | |

John Fisher PhD Defended Winter 00 Bryan Franks PhD Defended Spring 07 Shauna Henley PhD Defended Summer 13 Shaya Honarvar PhD Defended Fall 07 Yi Hu PhD Defended Spring 15 PhD Defended Fall 97 Allison Leslie PhD Defended Spring 15 Patrick McLaughlin Zhou Meng PhD Defended Spring 16 Jacob Owens PhD Defended Fall 13 Samir Patel PhD Defended Spring 13 PhD Defended Spring 13 Steven Pearson David Penick PhD Defended Spring 96 PhD Defended Spring 04 Elizabeth Rich PhD Defended Winter 99 Vandana Saboo PhD Defended Spring 15 Andrew Smith PhD Defended Spring 15 **Kevin Smith** PhD Defended Spring 15 Marilyn Sobel Anthony Steyermark PhD Defended Winter 99 Karen Sullam PhD Defended Spring 12 Maria Santidrian Tomillo PhD Defended Winter 07 Thuy Tran PhD Defended Spring 17 PhD Defended Spring 06 Susana Clusella Trullas Bryan Wallace PhD Defended Spring 05 PhD Defended Summer 13 Julianne Winters Eugenia Zandona PhD Defended Spring 11

Graduated MS students

Barbara Bell MS Defended Spring 02 Sr. Mary Anne Besitka MS Defended Spring 96 Christopher Binkley MS Defended Spring 96 Elliot Chiu MS Defended Spring 12 Nichole Coulter MS Defended Spring 02 MS Defended Spring 10 Valerie Darcy Bryna Franks MS Defended Spring 02 Alexis Leyman MS Defended Spring 11 MS Defended Spring 98 Shane Murray

Kristin Garrison Raine MS switched to non-thesis Fall 96

Danielle Rock MS Defended Spring 16 Karen Rankin-Baransky MS Defended Spring 97 Vincent Saba MS Defended Spring 01

Rachid Salahdine MS switched to non-thesis Fall 96

Melanie Sullivan MS Defended Spring 97
Thuy Tran MS Defended Spring 04
Naryan Wong MS Defended Spring 15

B. School of Biomedical Engineering, Science, and Health Systems

Current PhD students

Current MS students

Graduated PhD students

Ata Akin
PhD Defended Fall 98
James Furmato
PhD Defended Winter 08
Sausson Madi
PhD Defended Spring 00
Wenwei Qiao
PhD Defended Spring 97
Wenyao Shi
PhD Defended Spring 97
Jinsup Song
PhD Defended Fall 98

Graduated MS students

Holly Aaron MS Defended Spring 97
Aileen Chang MS Defended Spring 97
Gina Gualtieri MS Defended Summer 96
Gregory Haas MS Defended Fall 99
Sandra Inman MS Defended Fall 93
Valerie Jean-Bart MS Defended Spring 98

Melanie Kahler MS Defended Spring 98 Marjan Koch MS Defended Summer 00 Jasmine Magid MS Defended Fall 96 Soundharya Nagasubramanian MS Defended Summer 97

Camille Rahamut-Ali Defense failed - Spring 97? current status

Alexander Tuazon MS Defended Winter 95

Todd Weber MS Switched to non-thesis Fall 96

C. School of Environmental Science, Engineering, and Policy

Graduated PhD students

David Ehrets PhD Defended Winter 03 Mukul Gupta PhD Defended Winter 99

Graduated MS students

Bryan Franks MS Defended Fall 02 Vincent Saba MS Defended Fall 02

D. Elsewhere at Drexel

Graduated PhD students

Pinar Ozkan PhD Defended Fall 00 Chemical Engineering

Stephen Woloszynek PhD Defended Spring 18 ECE

E. External to Drexel

Current PhD students Graduated PhD students

| Michael Robson | University of Pennsylvania | Department of Biology |
|-------------------|----------------------------|--------------------------|
| Michael Sears | University of Pennsylvania | Department of Biology |
| Stanley Kemp | University of Pennsylvania | Department of Biology |
| Kimberley Rushing | University of Pennsylvania | Department of Biology |
| Samuel Ackerman | Temple University | Department of Statistics |

SERVICE

Department of Bioscience and Biotechnology / Biology

Graduate Advisory Committee - 1993- 2001 (chair & Graduate Advisor - 1993-1995, 1999-2000) 2003- 2006

Graduate Curriculum Committee - 1995-1997, 2016

Undergraduate Curriculum Committee 2001-2003, 2007-2105

(chair & Undergrad Advisor 2002-2003)

Pre-medical Advisor - 1992-2011

Ad hoc Committee to model enrollment based course needs - 2012 - present

Search Committees

Population Ecologist Search Committee - 1995

Plant Physiology Search Committee - 1996

Lab Coordinator Search Committee - 1997

Molecular Physiologist Search Committee - 1998

Biology Faculty Search Committee - 1999-2001 (chair 2000)

Molecular Ecologist Search Committee 2006

Cell Biologist Search Committee 2007

Physiologist Search Committee 2011

Math Department head Search Committee - 2013

Teaching Faculty Search - summer 2021

Infrastructure committee - 2018-present

Department of Biodiversity, Earth and Environmental Science

Curriculum Design Committee - Summer 2011

Undergraduate Curriculum Committee - Fall 2012 - present

Chair 2014 - present

Ornithology Search Committee - Fall 2012 - 2014

PAR Report Committee - 2015-2016

Betz Chair Search Committee - 2021

College/Schools

College of Arts and Sciences

Howard Hughes Proposal Committee - Fall 1997

Integrated Curriculum Committee - 2005-2007

Biodiversity, Earth, Environmental Science Curriculum Committee - 2011

Math Dept Chair Search Comm - 2014

Undergraduate Curriculum Committee - 2014-present

Chair 2015

School of Environmental Science, Engineering, and Policy

Curriculum Committee - 1995-1996

School of Biomedical Engineering, Science, and Health Systems

Strategic Planning Committee - Fall 1996

Curriculum Committee - 1996-2001

Drexel-Jefferson Seed Grant Proposal Review Committee - Summer 1998

Calhoun Chair Search Committee - 1997-2001

Drexel University

Pre-professional (medical, dental, veterinary) Advisory Committee - 1996-2011

Human Subjects Research Institutional Review Committee - 1996-1999

Bio-Safety Committee - 1997-1999

Search Committee - pre-medical advisor - 2000

Senate Committee on Academic Affairs - 2006-2010

Undergraduate Subcommittee - 2006-2010

Drexel/ DUCOM

Institutional Animal Care and Use Committee - March 1999-2005, 2013-pres

- -Vice Chair September 1999-2005
- Chair September 2018 present

DUCOM Human Subjects / Institutional Review Board - March 1999-2005, 2006-2011

- Vice Chair March 2001-2005, 2006-2011
- -Chair 1/2011-9/2011