

CURRICULUM VITAE - Michael Patrick O'Connor

CONTACT INFORMATION

Department of Biodiversity Earth and Environmental Science	E-mail: oconnomp@drexel.edu
Department of Bioscience and Biotechnology	215-895-2637 - office
Drexel University	215-895-1273 - fax
Philadelphia, PA 19104	215-442-9462 - home

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
Locomotorory 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. Riaccoc, 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, *Acyrtosiphon 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, *Acyrtosiphon 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 Nevada: 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 - Torreon, 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 Joneses.

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, A.E. 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)		
Medical Sciences 2 - (Organismal physiology for new graduate students)		
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)		
Living Engine (Engineering mechanisms underlying physiology)		

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 register²I 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 - 2012	Thesis - Sea turtle nest respiration
Sharon Thurston	- MS - 2012	Thesis - 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 - anticipated graduation 2023	

Students on whose thesis committees I serve(d)

A. Department of Bioscience and Biotechnology/BEES

Current PhD students

Tyler Anders-Bray
Meghan Barrett
Xiao Bi
Ben Bechade
Christian Cabuslay
Melissa Carpenter
Bryan Featherstone
Steve Miller
Linyao Peng
Dana Venditti

Current MS students

Virginia Caponera

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
Allison Leslie	PhD Defended Fall 97
Patrick McLaughlin	PhD Defended Spring 15
Zhou Meng	PhD Defended Spring 16
Jacob Owens	PhD Defended Fall 13
Samir Patel	PhD Defended Spring 13
Steven Pearson	PhD Defended Spring 13
David Penick	PhD Defended Spring 96
Elizabeth Rich	PhD Defended Spring 04
Vandana Saboo	PhD Defended Winter 99
Andrew Smith	PhD Defended Spring 15
Kevin Smith	PhD Defended Spring 15
Marilyn Sobel	PhD Defended Spring 15
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
Susana Clusella Trullas	PhD Defended Spring 06
Bryan Wallace	PhD Defended Spring 05
Julianne Winters	PhD Defended Summer 13
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
Valerie Darcy	MS Defended Spring 10
Bryna Franks	MS Defended Spring 02
Alexis Leyman	MS Defended Spring 11
Shane Murray	MS Defended Spring 98
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