Michelle Boone, Ph.D.

Associate Professor of Biology

Boone's laboratory is currently examining the e ects of pesticides on the full life cycle to determine sensitive periods during development, the role of the amphibian chytrid fungus on individual performance in the presence of other environmental factors, and the impact of habitat change on amphibian movement and dispersal. Her laboratory uses amphibians as a model for understanding how organisms can be a ected by chemical contamination, habitat change/alteration, disease pathogens, and invasive species in the presence of factors known to regulate natural amphibian communities—competition, predation, and pond drying.

M.M. (Kelly) Cowan, Ph.D.

Professor Emerita of Microbiology

Cowan has published several book chapters, a major review article, and two dozen research articles stemming from her work on

Gregory Crawford, Ph.D.

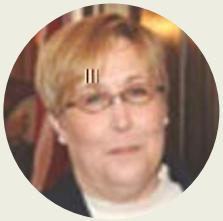
President and Professor of Physics

Crawford's research is transdisciplinary, including nano, photonics, thin-film conductors, nanoparticles, and biomedical devices, and his leadership focuses on transdisciplinary research and education. Throughout his career, Crawford has elevated entrepreneurship pedagogy, interdisciplinary research, and the character development of students. He has championed and co-developed entrepreneurship programs at both the undergraduate and graduate levels at multiple institutions, including PRIME (Master's Program in Innovation Management & Entrepreneurship) at Brown University, ESTEEM (Engineering, Science, and Technology Entrepreneurship Excellence Master's Program) at the University of Notre Dame, and MEET (Master's in Entrepreneurship and Emerging Technology) at Miami University. In these programs, graduate students take a technology idea, often from the university's research enterprise, and create a commercialization plan for their capstone. Crawford's work includes more than 400 research and education publications, review articles and book chapters, and 21 U.S. patents and patent applications. He has researched and fundraised extensively for Niemann-Pick Type C disease. He currently serves as a member of the Board of Directors at Cintrifuse, the incubator and accelerator dedicated to creating a stronger technology presence in Greater Cincinnati.

Thomas Crist, Ph.D.

Professor and Chair of Biology

Crist is a terrestrial ecologist with interest in how landscape changes by human activities influence biodiversity, species interactions, and ecosystem services. His research lab focuses on insects and their interactions with plants, soils, and other animals. Recently, Crist has focused on ecosystem services provided by diverse insect communities, including pollination, biological control, and cultural services. A long-term experimental study in the Miami Natural Areas is aimed at understanding how litter-dwelling invertebrates are influenced by the interactions among deer, an invasive understory shrub, and exotic earthworms. Past research projects have spanned a wide range of spatial scales from experimental to landscape studies, and habitats including conservation grasslands, forests, and agroecosystems. In the laboratory, he uses a wide range of quantitative tools including statistical modeling, spatial analysis, and geographic information systems.



Michele Dickey, Ph.D.

Professor of Educational Psychology

Dickey's current areas of research include the design of interactive and game-based learning environments and the use of emerging technologies for education. She is program coordinator for the Instructional Design and Technology Program at Miami University. She teaches both undergraduate and graduate courses in educational technology and instructional design.

Yildirim Dilek, Ph.D.

University Distinguished Professor of Geology and Environmental Earth Science

Dilek's research interests are extensive, including structure, petrology, and geochemistry of ophiolites in Albania, California, Cyprus, Egypt, Greece, Oman, Turkey, Norway, California, China, Tibet, and peri-Caribbeawe a9, T1.32 (a)-30.6 2 (a)-30.6 6(i)-3.4 (e e)-13.3 (x)-31C ET/Ar4-1

Gilbert Gordon, Ph.D.

Ann Hagerman, Ph.D.

Professor of Chemistry and Biochemistry

Hagerman's research has centered around tannins, plant polyphenols,

Robert Weinberg, Ph.D.

Professor Emeritus of Kinesiology, Nutrition and Health

Weinberg's research focus is on mental skills and abilities and