

Curriculum Vitae

Stephen R. Madigosky, Widener University

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Education: B.S. in Natural Resources Conservation (1978), University of Connecticut, Storrs CT; M.S. in Natural Resources (1981), and Ed.D. in Biology (1987), Ball State University, Muncie, IN

Academic Appointments: Dr. Madigosky joined the faculty at Widener University in 1989 as an Assistant Professor and was promoted to associate Professor in 1995 and Professor in 2001. Initially, Dr. Madigosky's appointment was split between the Departments of Biology and the Center for Education. He advised and taught all teacher education students seeking science certification and served as a student teacher supervisor/mentor while students taught in middle/high schools during their last semester at Widener. He also teaches and advises pre-med/vet and environmental science students. Dr. Madigosky helped form the Department of Environmental Science in 1992 and has chaired the department since its inception. Since 2006, Dr. Madigosky's academic appointment has been split between biology and environmental science departments.

Teaching Experience: Dr. Madigosky started teaching biology while pursuing his doctorate at Ball State University in the early 1980's. In 1984 he accepted a teaching position at the Louisiana School for Math Science and the Arts, the nation's second residential high school designed for gifted and talented students. He helped design the curriculum and taught biology classes while assisting students gain summer internships at the National Institute of Health in Washington, D.C. At Widener University, Dr. Madigosky has taught more than 25 courses and each year brings undergraduate students to Peru and Costa Rica as part of their course work. He also serves as an instructor for the International Rainforest Workshop for Teachers held each June/July in the upper Amazon Basin in Iquitos, Peru since 1992.

Honors and Teaching Awards: Dr. Madigosky has received the highest level of merit and teaching evaluations every year since he has been at Widener University (1989-present). His teaching awards span more than three decades. In 1987 he was selected by the governor of Louisiana to represent Louisiana as the top teacher in the state. For this he was awarded the National Institutes of Health Excellence in Teaching Award that was administered in Washington, D.C.. In 1989 he was awarded a Sigma Xi Teaching Award presented by the Louisiana State University Chapter, Baton Rouge, LA. Most recently (2012) he received the Widener University College of Arts and Sciences Faculty Award for Excellence in Teaching and the prestigious Lindback Award for Distinguished Teaching (2013). In October 2014 he received the Distinguished University Professor award. He has received several service and service leadership awards given by the City of Chester, PA, Kappa Delta Pi/Chi Gamma and Widener University's Professional Development School. He also was selected as a service-learning fellow at Widener University. He was nominated for Professor of the Year in March 2014 and the application is pending.

Publications & Research Activities: Dr. Madigosky has some 30 publications of which half have been coauthored with his students. He routinely travels with students to local, regional, and national conferences to present their work. Dr. Madigosky serves as a mentor for several students who have been recently awarded funds through the Clinton Global Initiative to explore global climate change. His students have presented their work at local, regional, and national forums such as the *Posters at the Capital* sessions in Harrisburg, PA. In 2012 his students were awarded a first place prize at the Delaware American Chemical Society, in Newark, DE for their work revealing concentrations of mercury in fish and seafood products sold in the tri-state region. He has written several book chapters on tropical forest canopies.

Grants & Research Activities: Over the past 20 years Dr. Madigosky has received over 45 research/teaching grants totaling over 1.5 million dollars, five of which were awarded by the National Science Foundation. Others were awarded by the State Department of Education in Pennsylvania, the Pennsylvania Sea Grant Program, ARCO Chemical Corporation, and grants provided by Widener University. In the early 1990's he received a Dwight D. Eisenhower Mathematics and Science Education Grant to develop curricular materials to promote chemistry education. This was adopted by the American Chemical Society and served as a national model for 4th-8th grade teachers. The NSF grants amounted to \$733,000 and focused on developing teacher leaders institutes, developing unique curriculum initiatives between neighboring universities, exposing secondary teachers to engineering design by developing virtual laboratories, and establishing a partnership between K-12 classrooms with university students and faculty. In nearly all instances, students assisted with the operation of the programs. His research grants almost always involve undergraduate students and in most instances involve student traveling abroad to conduct research.

Professional Service: Dr. Madigosky helped develop the undergraduate curriculum for environmental science and helped refine the biology curriculum at Widener University. He conceived the creation of the Geographic Information Systems Laboratory within the Department of Environmental Science that now helps train students from many academic disciplines at Widener. He helped hire the first director, Dr. Chad Freed. In 2005 he conceived and helped establish the Science Teaching Center on Widener's campus that now serves as a training center for in-service and pre-service teacher education programs. Dr. Madigosky has directed dozens of programs for hundreds of middle and high school students/teachers throughout the tri-state area. He leads club-sponsored field trips for Widener University students throughout the academic year, many of which are international in scope. He has given dozens of presentations over the past decade and often is a sought after speaker at university events (locally, regionally, nationally and internationally). In the late 1990's he lobbied Peru's Congress over several years to protect the endangered high altitude polylepes forests throughout the Andes Mts. In addition, Peruvian plant collections he prepared in 1997-98 are currently being used in Peru's permanent reference collection in Lima, Peru as well as Huascaran National Park located in Cordillera Blanca range of the western Andes. He recently developed an international service learning initiative that helps Costa Rica farmers reforest degraded coffee farms while being paid a living wage for their efforts. Several universities are now instituting this model of sustainable development into their own service programs and curriculum. Dr. Madigosky serves as the Director of Research at the Amazon Conservatory of Tropical Studies (ACTS) in Iquitos, Peru.