Teaching
Dr. Koziel teaches Senior Capstone Project, Graduate Seminar, and Air Pollution courses. He also organizes Study Abroad trips to Poland focused on livestock production systems, environment, technology and sustainability. He is mentoring undergraduate students in Honors and George Washington Carver programs.

Research
Dr. Koziel’s research team works on the following main focus areas:

Air quality measurements and mitigation
This aim is to quantify and mitigate emissions of ammonia (NH₃), hydrogen sulide (H₂S), particulate matter (PM-10, PM-2.5), volatile organic compounds (VOCs), odor, and greenhouse gases from livestock operations.

Odor mitigation
Dr. Koziel is currently working on identification and prioritization of malodors from confined animal feeding operations using solid phase microextraction (SPME)—multidimensional gas chromatography—mass spectrometry—olfactometry (MDGC-MS-O). This method is used to evaluate odor control technologies including the use of photocatalysis and manure additives.

Biotechnology
The aim is to develop novel methods for environmental analysis, sampling, monitoring of complex chemical reactions, processes, emissions related to waste treatment, animal mortality composting, plant-insect interactions, volatile biomarkers of animal health, in vivo and non-invasive chemical sampling, wine aroma, biomarkers of aflatoxins, and kairromones.

Sustainable production of energy for developing countries
The aim is develop robust and low cost technologies for on-farm production of energy from animal and household waste.