



Erdal Ozkan, professor, Department of Food, Agricultural, and Biological Engineering, Ohio State University, Columbus, Ohio, is being honored for internationally recognized scholarly accomplishments and educational materials developed resulting in the improvement of agrochemical application technology and practice.

Since moving to the Ohio State University, Ozkan has focused his attention to pesticide application technology including design of new equipment as well as efficient operation of existing equipment for safe, efficient and effective use of pesticides, while reducing pesticide waste. Ozkan is internationally recognized for his research in pesticide application technology and pesticide waste management. His research addresses growing concerns over contamination of groundwater by pesticides. Ozkan's research has shown that by modifying existing equipment, or by using proper equipment and calibrating that equipment correctly, agricultural producers can reduce the amount of waste pesticides applied, thus reducing costs, while minimizing the risk of environmental pollution. Ozkan's research led to a unique application of a well-known simulation software, DRAINMOD, which helps engineers and farmers choose large machinery and installation of drainage systems for a given farm.

His expertise in spray technology led to Ozkan's recruitment by the US Department of Defense (DOD) to work on a project for developing an environmentally-friendly, non-corrosive, potent, and sporicidal decontamination system for rapid remediation of critical DOD infrastructure in the wake of an anthrax attack. This study resulted in specific recommendations on selection of appropriate spray technology for decontamination of a wide range of targets and infrastructure on a military base in the case of an anthrax attack.

A 39 year member of ASABE, Ozkan is a longstanding member of many Machinery Systems committees, including the Liquid Materials Application committee, the Application System and US TAG ISO committee, and the Spray Application Modeling committee. He has also been an active leader in the ASABE Ohio Section. Ozkan has served as a reviewer for ASABE manuscripts and he has led the development of several ASABE standards. Ozkan has been an active member of the AGRO Chemical division of the American Chemical Society. He

was the program chair and symposium chair for two AGRO Chemical division American Chemical Society symposia.

Ozkan is author or coauthor of more than 130 peer-reviewed articles, book chapters, or conference proceeding papers. He is the developer or codeveloper of 19 microcomputer software programs related to agricultural machinery management or pesticide application equipment operation and selection. Ozkan has received 20 ASABE Educational Aids Blue Ribbon and Superior Paper awards. In 2015, Ozkan was recipient of the ASABE Rain Bird Engineering Concept of the Year award.