

# 2018 ASABE Fellow



**Dirk E. Maier, PE**, professor and postharvest engineer, Department of Agricultural and Biosystems Engineering, Iowa State University, Ames, is being honored for development and delivery of engineered technologies to protect stored bio-products worldwide.

Maier is an exceptional professor and academic administrator, proven by his outstanding ability to fundraise and obtain grant support for university programs. Maier's research and outreach programs have received \$10 million, \$10.5 million, and more than \$1 million (to date) in grant support at Purdue University, Kansas State University, and Iowa State University, respectively. Under his leadership, the United States grain industry initiated a continuing education program of more than 26 courses that has reached more than 5,000 participants in 36 countries.

Maier has developed a prolific research career, largely focusing on grain storage, especially the development of non-chemical and other alternative protection technologies, including chilling, ozonation, heat, modified atmosphere, and hermetic storage. These techniques resulted in increased usage of commercial grain chillers and ozone generators to improve storage conditions for cereal grains, oilseeds, and processed products. His research has extended to modeling stored grain ecosystems and the effects of fumigation, hermetic, and environmental conditions on stored-product pest management. As a result, producers and the grain industry have adopted moisture and carbon dioxide monitoring for early-spoilage detection.

A 32-year member of ASABE, Maier is a longstanding member within the Processing Systems Technical community Crop & Feed Processing & Storage committee and is extensively involved in the global engagement programs and global conference committees. He is also a member of the International Standards Organization United States Technical Advisory Group Feed Machinery Standard Development committee. Maier maintains memberships with the American Association of Cereal Chemists, the American Feed Industry Association, the Grain Elevator and Processing Society, and the United States Quality Grains Research Consortium.

Maier is author or coauthor of more than 260 refereed journal articles, book chapters, and other publications. Throughout his career, Maier's research expertise and teaching has earned him many awards. Most recently, he was awarded two distinguished program awards for the GEAPS/K-State Grain Operations Distance Education program and was named Grain Industry Leader by GEAPS. He has received numerous ASABE Educational Aids Blue Ribbons, paper awards, and in 2000, he was awarded the Nolan Mitchell Young Extension Worker award (now the Larry W. Turner Young Extension Professional award).