

ASABE Fellows



James P. Bordovsky, PE, senior research scientist and agricultural engineer, Texas A&M Agrilife Research, Texas A&M University, Lubbock, Texas is being honored for his continuing contributions of record and service to the Society and his profession.

Bordovsky has provided extensive leadership in irrigation management and in numerous interdisciplinary cropping system studies. Bordovsky is a highly regarded researcher in center pivot and subsurface drip irrigation design and management in semi-arid, water deficient environments. He co-developed the Low Energy Precision Application (LEPA) Irrigation system. This work resulted in a significant reduction in evaporation and energy expenditures. Bordovsky has also researched and written extensively on Subsurface Drip Irrigation (SDI) and the application of both LEPA and SDI in cotton irrigation management. Bordovsky's irrigation work has been particularly important because the adoption of LEPA and microirrigation technologies has led to significant water conservation throughout the Southern High Plains and Central Great Plains regions. His work has clearly illustrated the limited benefits of early season irrigation in excess of plant requirements and the importance of minimizing stress during the mid- and late periods of the growing season. Additionally, Bordovsky conducted a series of complex center pivot experiments evaluating combinations of irrigation capacities and cotton growth stages, resulting in a strategy that reduces seasonal irrigation with minimal yield loss.

A 42-year member of ASABE, Bordovsky has been a member of various Natural Resources and Environment Systems committees and is a member and former leader in the ASABE Texas Section. He is a founding member of the Texas Agricultural Irrigation Association. Bordovsky also serves as a technical reviewer for many journals including *Transactions of the ASABE*, *Applied Engineering in Agriculture*, the *ASCE Journal of Irrigation and Drainage Engineering*, and the *Agronomy Journal*.

Bordovsky has published more than 300 peer reviewed articles, book chapters, conference proceeding papers, and other publications. He also holds four United States patents. Bordovsky has received numerous ASABE awards including the Mayfield Cotton Engineering award, the Netafim Advancements in Microirrigation award, and the Dale F. Heermann Sprinkler Irrigation award. He also received the Texas A&M University System Vice Chancellor's award in Excellence for Team Collaboration and the Outstanding Service to Agriculture Award of Merit from Texas Tech University. He was named the West Texas Agricultural Chemical Institute Innovator in 2018 and received the Irrigation Association's National Water & Engineering Conservation Team award and the Texas Agricultural Irrigation Association President's award for Research Excellence.