



## Juan Enciso-Medina, PE

**Juan Enciso-Medina, PE**, is the recipient of the 2023 Netafim award for Advancements in Micro Irrigation for his contributions and advancement in the knowledge of subsurface drip irrigation and for support of the micro irrigation community.

Enciso-Medina is a professor in the agricultural and biosystems engineering department at Texas A&M University. He conducts research in the design and management of irrigation systems with particular emphasis on subsurface drip irrigation (SDI), agricultural and vegetable production, and agricultural management using remote sensing sensors. He has developed irrigation management practices to enhance the economic, production, and environmental sustainability of North American cotton, vegetable, and fruit production areas.

Enciso-Medina established a successful research and extension program with SDI to increase management efficiency and enhance the sustainability of irrigated cotton in the Southwest Texas region. Experiments evaluated the economic viability of different row spacing and configurations, drip line spacing, drip depth, irrigation frequency, and irrigation capacities. Enciso-Medina also established several demonstration trials, conferences, and workshops to promote this technology and the results of his research. In addition, he taught several courses in designing drip irrigation and chemigation for the Irrigation Association. He has established a successful irrigation program in Texas's Lower Rio Grande Valley. Before moving to the US, Enciso-Medina established multiple SDI programs (research, educational, and demonstration programs) in Mexico. He designed several SDI systems in Mexico's Baja California, Sinaloa, and Yucatan

regions. Enciso-Medina provided training in designing both pumping and drip irrigation systems. This aimed to promote the adoption of drip irrigation systems that avoid polluting aquifers.

A 29-year member of ASABE, Enciso-Medina has served on several ASABE committees, including the Award for the Advancement of Surface Irrigation committee, the Netafim Microirrigation award committee, surface irrigation and water supply committee, and the Sprinkler Irrigation committees. He has also received the ASABE Award for the Advancement of Surface Irrigation. He is also a member of the American Horticultural Society and Asociación Nacional de Especialistas de Irrigación-México.

Enciso-Medina has authored or coauthored more than 200 peer-reviewed articles, extension articles, and other publications. Enciso-Medina coauthored a series of extension publications on subsurface drip that instructed farmers to install and manage drip irrigation systems successfully and transferred technology improvements to farmers. Enciso-Medina is actively involved with technology transfer from micro-irrigation studies and leads efforts at his location by engaging in hundreds of presentations, tours, and demonstrations.