

Juan M. Enciso, Ph.D, P.E

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EDUCATION

- May 1992 Ph.D. in Agricultural Engineering, University of Nebraska-Lincoln.
Dissertation: An Infiltration Model for Managing Furrow Irrigation with Limited Water Supplies.
- October 1986 M.S. Water Management. Instituto Tecnologico de Estudios Superiores de Monterrey. Monterrey, Nuevo Leon, Mexico.
- April 1984 B.S. Irrigation Engineering, U.A.A.A.N. Saltillo, Coahuila, Mexico.

PROFESSIONAL REGISTRATION

Licensed Professional Engineer, State of Texas, Registration Number: 92241

Licensed Irrigator. Texas Commission of Environmental Quality. License number LI0015444.

Issue Date: 05/27/2010 to 05/31/2013.

PAST POSITIONS AND EXPERIENCES

Associate Professor. Department of Biological and Agricultural Engineering, Texas A&M University System. Appointment 100% Research. October 1, 2011 to date, Weslaco, TX.

Associate Professor and Extension Agricultural Engineer. Biological and Agricultural Engineering Department, Texas A&M Research and Extension Center-Weslaco. Appointment: 52% Extension, 48% Research. September 2006 to October 2011.

Assistant Professor and Extension Specialist. Biological and Agricultural Engineering Department, Texas A&M Research and Extension Center-Weslaco. September 2003 to September 2006.

Activities:

Applied research in the areas of deficit irrigation, subsurface drip irrigation, water management, salinity management, and waste-water utilization. Technology transfer in the areas of subsurface

drip irrigation, turf irrigation, deficit irrigation, water quality.

Provide solutions to energy issues related to water management, water-use efficiency, bio-energy, solar and wind energy.

Develop and adapt irrigation technology that solves water demand, quality (nutrient loadings, reuse water utilization, bacteriological issues).

Develop Extension and Research programs, implement in-depth technology transfer, demonstration and educational programs which address management decisions including water management, water conservation, increase on water use efficiency and irrigation efficiency through technology (sprinkler irrigation, micro-irrigation, subsurface drip irrigation, surface irrigation, fertigation, and chemical injection), hydraulics of irrigation networks and of irrigation components, salinity management, water quality management, and water and wastewater treatments.

Provide engineering leadership in interagency programs to develop and help producers optimize management decisions including improved water management practices for irrigated and dry-land agriculture.

Assistant Professor and Extension Specialist. Biological and Agricultural Engineering Department, Texas A&M University System. October 1998 to September 2003. Fort Stockton, TX. 100% Extension.

Professor. Department of Civil Engineer. Michoacan State University. Morelia, Michoacan. Mexico. January to October of 1998. Teaching responsibilities in the courses Hydraulics I and Irrigation Management. Research in the use of efficient irrigation systems for sugar cane production. Other responsibilities included the planning of the Masters on Waters Science. 75% Teaching, 25% Research.

Hydraulics Specialist and Professor. Hydraulic Specialist at the Mexican Institute of Water Technology and Professor at the Universidad Nacional Autonoma de Mexico. Graduate Program of the School of Engineering. June 1992 to December of 1997.

1995-1996. Design of several collective irrigation networks. Research on system cost-flexibility relation. Development and testing of low cost fertigation injector prototypes for surface irrigation. Simulation of fertilizer distribution within the network. Train technicians on designing pipe systems and canal systems.

1994. Development of a computer program to plan modernization of on-farm irrigation. The program was useful to select and economically evaluate different irrigation systems. Also, an optimization program was developed to maximize profit and select different irrigation technologies considering limited investment, water, and different market value conditions for the crops. The program was used to establish a national training program.

1993. Modernization of on-farm irrigation systems. Several drip and micro-irrigation layouts were designed and evaluated, hydraulically and economically, in combination with different farming techniques. A national program on designing pressurized system was established. A book and several videos were

prepared for the training.

1992. Several control structures for canals were evaluated hydraulically including long crested weir, AMIL and drop leaf gates. Neyrpic structures and venturis were evaluated in the laboratory, for use as water measurement structures at irrigation district' farm turnouts.

Professor. Department of Irrigation. Universidad Autonoma Agraria "Antonio Narro". Saltillo, Coahuila, Mexico. January to June of 1992. Teaching responsibilities of the courses Surface Irrigation Design and Operation and Irrigation and Drainage I. Teaching 50%, Research 50%.

Graduate Research Assistant Agricultural Engineering Department, University of Nebraska-Lincoln

July 1990-December 1991. Ph.D. Dissertation involved development of an irrigation model, and its coupling with a crop model and a hydraulic model to simulate irrigation strategies.

Graduate Assistant Water Department, Instituto Tecnologico de Estudios Superiores de Monterrey September 1985-December 1986. Research on different levels of irrigation and nitrogen on squash yield and quality with the use of drip irrigation systems.

Agricultural Financial Manager. Bancomer. January 1984- September 1985

Research Assitant Irrigation Department, Universidad Autónoma Agraria "Antonio Narro". July 1984-December 1984. Research involved evaluation of runoff in small watersheds.

PUBLICATIONS Lifetime: Peer reviewed (26), Invitational (1), Technical Papers and Posters (43), Posters (8), Extension Publications (14), Manuals (4), Chapters in book (5).

REFERRED JOURNAL PUBLICATIONS (26)

1. Perea, H., J. Enciso-Medina, V. P. Singh, D. P. Dutta and B. J. Lesikar. 2013. Statistical Analysis of Non-Pressure-Compensating and Pressure-Compensating Drip Emitters. Journal of Irrigation Drainage Engineering. J. Irrig. Drain Eng. ASCE., 139(12), 986–994.
2. On-Farm Performance of Tensiometer and Granular Matrix Soil Moisture Sensors in Irrigated Light, Medium, and Heavy Textured Soils. Hugo Perea, Juan Enciso, John Jifon, Shad Nelson, and Carlos Fernandez. 2013. Subtropical Agriculture and Environments. Journal of the Subtropical Agriculture and Environments Society. Vol. 65: 1-6.

3. F. R. Lamm, J. P. Bordovsky, L. J. Schwankl, G. L. Grabow, J. Enciso-Medina, R. T. Peters, P. D. Colaizzi, T. P. Trooien, D. O. 2012. Subsurface drip irrigation: Status of the technology in 2010. *Transactions of the ASABE*. 55(2): 483-491.
4. Enciso-Medina, W. L. Multer, and F. R. Lamm . 2011. Management, Maintenance, and Water Quality Effects on The Long-Term Performance of Subsurface Drip Irrigation Systems. *Journal of Applied Engineering*. ASABE. 27(6): 969-978.
5. Nelson, D. Shad, Mac Young, Juan M. Enciso, Steven L. Klose and Mamoudou Sétamou. 2011. Impact of Irrigation Method on Water Savings and 'Rio Red' Grapefruit Pack-Out in South Texas. *Subtropical Plant Science*, 63: 14-22.
6. Enciso-Medina Juan., Warren L. Multer., Bob Wiedenfeld. 2009. Knifing versus Injecting Phosphoric Acid with Subsurface Drip Irrigation Systems. *Journal of Plant Nutrition*, Volume 32, Issue 11, 2009, Pages 1975 – 1982
7. Enciso Juan, Bob Wiedenfeld, John Jifon, and Shad Nelson. 2009. Onion Yield and Quality Response to Two Irrigation Scheduling Strategies. *Scientia Horticulturae* 120 (2009) 301–305.
8. Peries X. and J. Enciso. 2009. Interpretation of Watermark Sensors Readings in Specific Soil Types. *Subtropical Plant Science*. 61:6-14.
9. Uckoo, R.M., J.M. Enciso, I.W. Wesselmann, K. Jones and S.D. Nelson. 2009. Impact of compost application on citrus production under drip and microjet spray irrigation systems. *Tree and Forestry Science and Biotechnology* 3 (Special Issue 1) 59-65. Global Science Books.
10. Nelson, S.D., R.M. Uckoo, H. Esquivel, J.M. Enciso, and K. Jones. 2008. Effect of compost in 'Rio Red' grapefruit production in a heavy textured soil. In: Hao X-Y (Ed) *Compost I. Dynamic Soil, Dynamic Plant*. 2 (Special Issue 1), 67-71. Global Science Books.
11. De Almeida Silva, Marcelo., Jorge Alberto Gonçalves da Silva., Juan Enciso., Vivek Sharma and John Jifon. 2008. Yield Components as Indicators of Drought Tolerance Of Sugarcane. *Sci. Agric. (Piracicaba, Braz.)*, v.65, n.6, p.620-627.
12. Wiedenfeld, Bob and Juan Enciso. 2008. Sugarcane Responses to Irrigation and Nitrogen in Semiarid South Texas. *Agronomy Journal* Vol. 100(3): 665-671.

13. Enciso, J. M., J. Jifon, and B. Wiedenfeld. 2007. Subsurface Drip Irrigation of Onions: Effects of Drip Tape Emitter Spacing on Yield and Quality. *Agricultural Water Management*, Volume 92, Issue 3, Pages 1-7.
14. Enciso J. M., P. D. Colaizzi, W. L. Multer, and C. Stichler. 2007. Cotton Response to Phosphorus Fertigation Using Subsurface Drip Irrigation. *Applied Engineering in Agriculture*. 23(3): 299-304.
15. Enciso, J. Sauls, B. Wiedenfeld and S. Nelson. 2005. Irrigation of Citrus in Texas – A Review. 57-16-22. *Subtropical Plant Science*. Journal of the Rio Grande Valley Horticultural Society.
16. Uckoo, R. M., S.D. Nelson, J. M. Enciso, and K. J. Shantidas. 2005. Irrigation and Fertilizer Efficiency in South Texas Grapefruit Production. 57-23-28. *Subtropical Plant Science*. Journal of the Rio Grande Valley Horticultural Society.
17. Assadian N.W., G.D. Di Giovanni, J. Enciso, J. Iglesias and W. Lindemann. 2005. The transport of waterborne solutes and bacteriophage in soil subirrigated with a wastewater blend. *Agriculture, Ecosystems & Environment* Volume 111, Issues 1-4 , Pages 279-291
18. Enciso J. M., P. D. Colaizzi, W. L. Multer. 2005. “Economic Analysis of Subsurface Drip Irrigation Lateral Spacing and Installation Depth for Cotton”. *Transactions of the ASAE* 48(1):197-204.
19. Enciso, J. M. and B. Wiedenfeld. 2005. “Irrigation guidelines based on historical weather data in the Lower Rio Grande Valley of Texas”. *Agricultural Water Management*, Volume 76, Issue 1, 30 July 2005, Pages 1-7.
20. Wiedenfeld, B. and J. M. Enciso. 2004. “Sugarcane Irrigation in South Texas” A review”. *Subtropical Plant Science*. Journal of the Rio Grande Valley Horticultural Society. 56:52-55.
21. Enciso, J. M., B. Unruh, P.D. Colaizzi, and W. Multer. 2003. “Cotton Response to Subsurface Drip Irrigation Frequency under Deficit Irrigation”. *Journal of Applied Engineering*. ASAE. Vol. 19(5): 555-558.
22. Enciso, J. M., B. L. Unruh, J. C. Henggeler, and W.L. Multer. 2002. “Effect of Row Pattern and Spacing on Water Use Efficiency for Subsurface Drip Irrigated Cotton”. *Transactions of the ASAE* 45(5):1397-1403.

23. Enciso-Medina, J. M., D. L. Martin and D. Eisenhauer. 1999. "Infiltration Model for Furrow Irrigation". Journal of Irrigation and Drainage Engineering. ASCE. 124(2): pp 73-81.
24. Enciso-Medina, J., Peña, E., D. L. Martin and J. Gilley. 1999. "Evaluation of Different Methodologies for Flexible Water Deliveries to Meet Irrigation Demands" ICID Journal Vol. 2: 43-55.
25. Herrera P. J., Peña, P. E., Acosta H. R., González C. J., and Enciso, M. J. 1999. "Computer Methodology for the Selection and Design of Microirrigation Systems". Agrocienca 33(3):305-312.
26. Enciso-Medina, J. and D. L. Martin. 1997. "Simulation of Furrow Irrigation under Water Limiting Conditions". Ingeniería Hidráulica en México. XII(1):41-46.

INVITATIONAL PUBLICATIONS (1)

1. Enciso-Medina, Juan. "Elementos de fertirrigación". 1995. Revista Horticultura Mexicana, Vol. 3. Pág. 77 a 83.

TECHINICAL PAPERS AND POSTERS (54): ASABE PAPERS (10), EDITOR REVIEW PROCEEDINGS (36), POSTERS (9).

AMERICAN SOCIETY OF AGRICULTURAL AND BIOLOGICAL ENGINEERS PAPERS (10)

1. Enciso Juan, John Jifon, Juan Landivar, Luis Ribera, Hugo Perea, Fabio Rocha, Juan Monge. 2013. Water Use Efficiency and Net Return of Two Bioenergy crops. Posted online. Paper No. 1591611. Kansas City, Missouri, July 21 - July 24, 2013.
2. Enciso-Medina Juan, Warren L. Multer, Freddie Lamm. 2009. "Evaluation of Old Subsurface Drip Irrigation Systems in Texas". Presented at the 2009 ASAE Annual International Meeting. ASAE Paper 095725. Reno, Nevada: American Society of Agricultural Engineers, June 21 - June 24, 2009.
3. Enciso J., J. Jifon, and B. Wiedenfeld. 2005. "Subsurface Drip Irrigation of Onions: Effects of Emitter Spacing and Drip Depth on Yield". Presented at the 2005 ASAE Annual International Meeting. ASAE Paper 05-2242. Tampa, FL: American Society of Agricultural Engineers, July 17-20, 2005.

4. Enciso, Juan., Naomi Assadian, George Di Giovanni, Jaime Iglesias. 2003. "Using Filtered Wastewater Effluent with SDI". Presented at the 2003 ASAE Annual International Meeting. Paper 032025. Las Vegas, Nevada: American Society of Agricultural Engineers, 2003.
5. Enciso J., D. Martin, W. Multer, and Paul Colaizzi. 2002. "Irrigating Cotton with Salty Water and Subsurface Drip Irrigation". Presented at the 2002 ASAE Annual International Meeting. ASAE Paper 022112. Chicago, Illinois: American Society of Agricultural Engineers, 2002.
6. Enciso J., D. Martin, and Bryan Unruh. 1999. "Effect of Row Pattern and Spacing on Water Efficiency for Drip Irrigated Cotton". Presented at the 1999 ASAE Annual International Meeting. ASAE Paper 99-2250. Toronto, Canada: American Society of Agricultural Engineers, July 19-21, 1999.
7. Enciso J., D. Martin, and J. Gilley. 1997. "Analyzing the Cost-Flexibility Relation of Low Pressure Irrigation Networks". Presented at the 1997 ASAE Annual International Meeting. ASAE Paper 97-2221. Minneapolis, Minnesota: American Society of Agricultural Engineers, August 10-14, 1997.
8. Enciso J. and D.L. Martin. 1996. "Computer Based Simulation System for Surface Irrigation with Limited Water Supplies". In Proceedings of the sixth International Congress on Computers in Agriculture. Ed. Fedro Zazueta, ASAE publication no. 70190396, p: 994-1001. Cancun, Mexico: American Society of Agricultural Engineers, June 11-14, 1996.
9. Herrera Ponce J.C. Peña, E. González, and J. Enciso. 1996. "Selection and Design of Trickle and Micro-sprinkler Systems". In Proceedings of the sixth international congress on computers in agriculture. Ed. Fedro Zazueta, ASAE publication no. 70190396. P: 75-78. Cancun, Mexico: American Society of Agricultural Engineers, June 11-14, 1996.
10. Enciso-Medina, J., D.L. Martin, D. Eisenhauer, and N. Klocke. 1991. "Predicting Furrow Infiltration Rates under Water Limiting Conditions". Presented at the International Summer Meeting. ASAE Paper No. 91-2101. Albuquerque, New Mexico: American Society of Agricultural Engineers, June 23-26, 1991.

EDITOR REVIEW PROCEEDINGS (35)

1. Mac Young, Shad Nelson, Steven Klose, Juan Enciso and Tom McLemore. 2013. Furrow vs. Surge Irrigation in Sugar Cane Under Restricted Water Availability in the Lower Rio Grande Valley. FARM Assistance Focus 2013-1. May 2013

2. Lamm. Freddie R., James M. Bordovsky, Lawrence J. Schwankl, Garry L. Grabow, Juan Enciso-Medina, Troy R. Peters, Paul D. Colaizzi, Todd P. Trooien, and Dana O. Porter. 2010. Subsurface Drip Irrigation: Status of the Technology in 2010. 5th National Decennial Irrigation Conference. ASABE and Irrigation Association. Paper No. IRR10-9847.
3. Lamm. Freddie R., Paul Colaizzi, James P. Bordovsky, Todd P. Trooien, Juan Enciso-Medina, Dana O. Porter, Danny H. Rogers, and Daniel M. O'Brien. 2010. Can Subsurface Drip Irrigation (SDI) be a Competitive Irrigation System in the Great Plains Region for Commodity Crops? 5th National Decennial Irrigation Conference. ASABE and Irrigation Association. Paper No. IRR10-9686.
4. Nelson S.D., M. Young and J. Enciso. Relating On-Farm Level Irrigation Water Use to 'Rio Red' Grapefruit Pack-Out. HortScience 46(9):S139. (Abstr.). 71st Annual Meeting of the Southern Region ASHS. Feb 5-8, 2011. Corpus Christi, TX. Annual Meeting of the American Society of Horticultural Sciences. Sept 2011. Waikoloa, HI.
5. S.D. Nelson, M. Young, M. Setamou, X. Peries and J. Enciso. Evaluation of Compost Management in Citrus for Improved Crop Sustainability. (poster) 71st Annual Meeting of the Southern Region ASHS. Feb 5-8, 2011. Corpus Christi, TX.
6. Enciso-Medina Juan, Warren Multer, and Freddie Lamm. 2009. Impact of Management on the Life Expectancy of Drip Systems. In Proceedings of the Annual International Irrigation Show. December 2-4, 2009. San Antonio Convention Center. Irrigation Association Meeting. pages 1039-1056.
7. Nelson, S.D., H. Esquivel, R. Uckoo, X. Peries and J. Enciso. 2008. Using Alternative Irrigation and Water Monitoring Technologies for Improving On-Farm Water Conservation in South Texas Citrus Production. 11th International Citrus Congress. Wuhan, China. Oct 26-60.
8. Enciso J. Morales, J., B. Wiedenfeld., S. Nelson, and X. Peries. 2007. Irrigating Onions under Subsurface Drip Irrigation under Different Stress Levels. In Proceedings of the Annual International Irrigation Show. December 9-11, 2007. San Diego Convention Center. Irrigation Association Meeting. pages 338-352.
9. Enciso Juan.. The Irrigation Experience in The Lower Rio Grande. Paper published in the proceedings of the Bi-national Water Congress held in Saltillo, Coahuila, Mexico in November 30, 2007.

10. Jifon J.L., J. Enciso and B. Wiedenfeld (2007) Effects of Regulated Deficit Irrigation on Water Use Efficiency, Yield and Fruit Quality of Drip-Irrigated Muskmelon. HortScience 42(4):964.
11. Jifon, J.L., J. Enciso and B. Wiedenfeld. (2007). Effects of Deficit Irrigation on Water Use Efficiency and Fruit Quality of Drip-Irrigated Muskmelon. 67th Annual Meeting Southern Region of the American Society for Horticultural Sciences Mobile, AL, February 3-5, 2007.
12. Nelson, S.D., R.M. Uckoo, H. Esquivel and J.M. Enciso. 2007. Promoting Water Conservation Practices Throughout the Lower Rio Grande Valley of Texas. ASA-CSSA-SSSA Annual Conference. New Orleans, LA. Nov. 4-8.
13. Uckoo, R.M., S.D. Nelson, J.M. Enciso, I. Wesselman and K. Jones. 2007. Assessment of Compost Application in South Texas Grapefruit Production. ASA-CSSA-SSSA Annual Conference. New Orleans, LA. Nov. 4-8.
14. Enciso J. M., P. D. Colaizzi, W. L. Multer, and C. Stichler. 2006. "Knifing versus Injecting Phosphorus with SDI Systems in Cotton?". In Proceedings of the 2006 Irrigation Association Meeting. 6 pages.
15. Bronson, K.F., R. Yabaji, W. L. Multer, C. R. Stichler, J.M. Enciso, J.P. Bordovsky, D. O. Porter, and C.J. Green. 2006. Acid, Chlorine, Nitrogen, and Phosphorus Management For Subsurface Drip Irrigation Systems. p. 26-30. In A.J. Schlegel (ed.) 2006 Great Plains Soil Fertility Conference, 7-8 March, 2006, Denver, CO.
16. Enciso J. M., W. L. Multer., C. Stichler. "Injecting Phosphoric Acid though Subsurface Drip Irrigation Systems". In Proceedings of the 2005 Cotton Beltwide Conference. New Orleans, Louisiana: National Cotton Council of America, 2005.
17. Nelson, S.D., R. Uckoo, J. Enciso, and K.J. Shantidas. 2005. "On-Farm Water Conservation Strategies on South Texas Citrus Production". ASA-CSSA-SSSA International Annual Meetings. Salt Lake City, UT. Nov. 6-10.
18. Piccini, Giovanni, E. Steglich, Tom Gerik, Charles Stichler, Jeferry Stapper, Eddie Byorm, Wyatte Harman, Jimmy Williams, Juan Enciso, Enrique Perez, Larry Francis, and John Greiner. 2005. "Using Crop Simulation and Crop Evapo-Transpiration for Irrigation Management in South Texas". ASA-CSSA-SSSA International Annual Meetings. Salt Lake City, UT. November 6-10.
19. Enciso-Medina, Juan., B. Thompson, J. Robinson, W. Multer. "Economics of Drip-Line Spacing For Cotton". In Proceedings of the 2004 Cotton Beltwide Conference, 901-904. San Antonio, Texas: National Cotton Council of

America, 2004.

20. Uckoo, R., S.D. Nelson, and J. Enciso. 2005. "Management Strategies for Irrigation Use Efficiency in Grapefruit Production". TAMUS Pathways to the Doctorate Symposium. Kingsville, TX. Nov. 4-5.
21. Wiedenfeld Bob, Juan Enciso and John Jifon. 2005. "Irrigation and Nitrogen Application Effects on Sugarcane Production in the Lower Rio Grande Valley of Texas". ASA-CSSA-SSSA International Annual Meetings. Salt Lake City, UT. Nov. 6-10.
22. Wiedenfeld, B., & Enciso, J. (2005, June). Irrigation and nitrogen application effects on sugarcane production in the Lower Rio Grande Valley of Texas. ASSCT, Panama City Beach, FL.
23. Enciso-Medina, Juan., W.J. Thompson, W.L. Multer and Joe Henggeler and B. Unruh. "Optimum Design Capacities for Subsurface Drip Irrigated Cotton". In Proceedings of the 2003 Cotton Beltwide Conference, 632-637. Nashville, Tennessee: National Cotton Council of America, 2003.
24. Enciso-Medina, J., W.J. Thompson, W.L. Multer and Charles Stichler. "No Till and Tillage under Subsurface Drip Irrigation". 5 pages. In Proceedings of the 2002 Cotton Beltwide Conference, Atlanta, Georgia: National Cotton Council of America, 2002.
25. Enciso-Medina, J., and W.L. Multer. 2002. "Salinity Management with Subsurface Drip Irrigation". 4 pages. In Proceedings of the 2002 Cotton Beltwide Conference, Atlanta, Georgia: National Cotton Council of America, 2002.
26. Thompson, W.J., J. Enciso-Medina, and W.L. Multer. 2002. "Why Subsurface Drip Irrigation (SDI) An Economic Analysis". 4 pages. In Proceedings of the 2002 Cotton Beltwide Conference, Atlanta, Georgia: National Cotton Council of America, 2002.
27. Enciso J, D. Bryan Unruh, W. Multer, D. Porter . 2000. "Optimizing Cotton Irrigation Frequency for Deficit Irrigation". In Proceedings of the 4th Decennial National Irrigation Symposium, ed. Robert G. Evans, Brian L. Benham, and Todd P. Trooien, 618-623. Phoenix, Arizona: American Society of Agricultural Engineers. November 14-16, 2000.
28. Unruh, B.L. Texas A&M Univ., Ft. Stockton, TX; W. Multer, Texas A&M Univ., Garden City, TX; J. Enciso, Texas A&M Univ., Ft. Stockton, TX. "Narrow and Conventional Row Pattern Yield Response to Limited Subsurface Drip Irrigation". P. 596. In Proceedings of the 2000 Beltwide Cotton Physiology Conference, San Antonio, Texas: National Cotton Council

of America, 2000.

29. Enciso-Medina, J., Barocio-Fregoso C., Rendon-Pimentel L., and Suarez-Medina Ma. "Planning and Optimization of Mexican Investments in Irrigation Technology". In Proceedings of the ICID World congress in irrigation and drainage: Sustainability of Irrigated Agriculture. Reviewed by Perrier, E., Abu-Saada, M., Olbrisch Heinz, D., and C. Storsbergen. Volume 1C, Question 47: 1-11. Cairo, Egypt: 16th International Congress of Irrigation and Drainage, September 15-22, 1996.
30. Bautista-Morales, J., and J. Enciso-Medina. "Prototipo De Un Inyector De Fertilizante Para Riego Superficial". In Proceedings of the VI National Congress in Irrigation. Ed. Universidad Autónoma de Chapingo, Pág. 3.104 a la 3.110. Puebla, México: Asociación Nacional de Especialistas de Irrigación, September 15-22, 1996.
31. Enciso, J. and Valdes, C. "Fertigation by Phenological Stages and Plastic Mulching in Melons". VI National Congress in Horticulture. Mexican Society of Horticultural Sciences. Hermosillo, NL. April 29, 1995.
32. Enciso, J., S. Jahen, B. De Leon, and Z. Reyes. "Evaluación Del Funcionamiento E Instalación De Una Estructura De Gasto Constante (Aquacontrol)". XIII Congreso Nacional en Hidráulica. Puebla, México: Asociación Mexicana de Hidráulica, September 21-24, 1994.
33. Enciso-Medina, Juan. 1994. "Manejo Del Riego En Sistemas De Riego Por Goteo Subsuperficiales". Conferencia Científica Internacional. Instituto Superior Agrícola Ciego de Ávila, Cuba. March 21-24, 1994.
34. Enciso-Medina, J., D.L. Martin, and D. Eisenhauer. "Developing Irrigation Guidelines for Managing Limited Water Supplies". In Proceedings: Management of Water Resources in North America, Anticipating the 21st century. Ed. Nathan Buras, 35-43. Tucson, Arizona: American Society of Civil Engineers, September 4-8, 1993.
35. Enciso-Medina, J., D.L. Martin, D. Eisenhauer, and N. Klocke. 1992. "Simulating the Effects of Deficit Irrigation for Furrow Systems". Water Forum. Proceedings of the 1992 ASCE Irrigation and Drainage Division. ASCE Baltimore, Maryland, USA.
36. Enciso-Medina, J., D. L. Martin, D. Eisenhauer, and D. Watts. 1992. "Economical Analysis of Surface Irrigation with Limiting Water Conditions". 3rd Pan-American meeting, International Commission of Irrigation and Drainage. ICID, Mazatlan, Sinaloa. Mexico. November 9-11, 1992.

POSTERS (9)

1. Nelson S.D., M. Young, M. Setamou, X. Peries and J. Enciso. Evaluation of Compost Management in Citrus for Improved Crop Sustainability. (poster) 71st Annual Meeting of the Southern Region ASHS. Feb 5-8, 2011. Corpus Christi, TX.
2. Steiner, J.L., P. Gowda, D. Moriasi, J. Grabrecht, D. Brauer, T. Howell, R. Avila, F. Echeverria, A. Serna, E. T. Kanemasu, J. Diaz-Perez, B.L. Harris, and J. Enciso. 2011. A Decision Framework to Enhance Sustainable Groundwater Management A Research Partnership of: USDA-ARS: Jean L. Steiner, Prasanna Gowda, Daniel Moriasi, Jurgen Garbrecht, David Brauer, Terry A. Howell; Universidad Autónoma de Zacatecas: Francisco Mojarro, Carlos Bautista, Hugo Junez, Roberto Avila; INIFAP-Calera: Francisco Echevarria, Alfonso Serna; University of Georgia: E.T. Kanemasu, Juan Carlos Díaz-Pérez; Texas A&M University: B.L. Harris, Juan Enciso. Sustainability on the Border: Water, Climate and Social Change in a Fragile Landscape. May 16-18, 2011. Union Building East. The University of Texas at El Paso. <http://ia.utep.edu/Default.aspx?tabid=67876>
3. Ram M. Uckoo, Shad D. Nelson, Juan M. Enciso. “Effect of Compost Application in South Texas Grapefruit Production” presented at the 61st Annual Rio Grande Valley Horticultural Society meeting at UT Pan AM, Jan 30, 2007. Poster took 1st place. Ram received \$100.00 for his work.
4. Xavier Peries, Juan Enciso, J. Morales, Tom McLemore and Wayne Halbert. 2007. Maximizing In-Farm Irrigation Use Efficiency for Water Conservation in the Lower Rio Grande Valley: Irrigation Scheduling and Improvement of Water Delivery Systems. **1st place poster contest winner at the Annual Joint Rio Grande Basin initiative Conference at South Padre Island, Texas** with 170 attendees.
5. Xavier Peries, Juan Enciso, J. Morales and Shad Nelson. 2007. Using Flexible Pipe (poly-pipe) with Surface Irrigation. Presented at the Annual Joint Rio Grande Basin initiative Conference at South Padre Island, Texas with 170 attendees.
6. Xavier Peries, Juan Enciso, J. Morales and Shad Nelson. 2007. Improving Irrigation Use Efficiency in the LRGV: Result Demonstration Reports. Presented at the Annual Joint Rio Grande Basin initiative Conference at South Padre Island, Texas with 170 attendees.
7. Wiedenfeld, B. and J. Enciso. 2006. Effect of water availability on sugarcane response to N fertilization. 18 th World Congress of Soil Science. Philadelphia, PA. Jul 2006.

8. Jifon J.L., J. Enciso and B. Wiedenfeld (2007) Effects of Regulated Deficit Irrigation on Water Use Efficiency, Yield and Fruit Quality of Drip-Irrigated Muskmelon. HortScience 42(4):964.
9. Jifon, J.L., J. Enciso and B. Wiedenfeld. (2007). Effects of Deficit Irrigation on Water Use Efficiency and Fruit Quality of Drip-Irrigated Muskmelon. 67th Annual Meeting Southern Region of the American Society for Horticultural Sciences Mobile, AL, February 3-5, 2007.

TEXAS AGRILIFE EXTENSION SERVICE PUBLICATIONS (Total 19: 12 in English and 7 which are translated into Spanish)

1. Juan Enciso, Xavier Peries, Luis A. Ribera and Dean Santistevan. Understanding and Installing Drainage Systems. 2009. Texas Cooperative Extension Fact Sheet No B-6229. 12 pages.
2. Juan Enciso, Julian W. Sauls, Robert P. Wiedenfeld and Shad D. Nelson. 2008. Impacts of Irrigation on Citrus. Texas Cooperative Extension Fact Sheet No. B-6205. 16 pages.
3. Juan Enciso, Julian W. Sauls, Robert P. Wiedenfeld and Shad D. Nelson. 2008. Los impactos del Riego de Citricos. Texas Cooperative Extension Fact Sheet No. B-6205S. 16 pages.
4. Juan Enciso, Dean Santistevan, and Aung K. Hla. 2007. Propeller Flow Meters. Texas Cooperative Extension Fact Sheet No. L-5492. 4 pages.
5. Juan Enciso, Dean Santistevan, and Aung K. Hla. 2007. Medidores de flujo de helice. Texas Cooperative Extension Fact Sheet No. L-5492S. 4 pages.
6. Juan Enciso, Dana Porter, Jim Bordovsky, and Guy Fipps. 2007. Irrigation Monitoring with Soil Water Sensors. B-6194. 01/07. 11 pages.
7. Juan Enciso, Dana Porter, Jim Bordovsky, and Guy Fipps. 2006. Uso de sensors de humedad del suelo para eficientizar el riego. B-6194S. 08/07. 14 pages.
8. Juan Enciso and Xavier Peries. 2005. Using Flexible Pipe (poly-pipe) with Surface Irrigation. Texas Cooperative Extension. Fact Sheet No. L-5469. 4 pages.
9. Juan Enciso and Xavier Peries. 2005. Usando tubo flexible (politubo) en el

riego superficial. Texas Cooperative Extension. Fact Sheet No. L-5469S. 4 pages.

10. Juan Enciso, Dana Porter. January 2005. Basics of Microirrigation. Texas Cooperative Extension. Fact Sheet No. B-6160. 16 pages
11. Bob Wiedenfeld, Juan Enciso, John Robinson, Guy Fipps. 2005. Irrigation of Sugarcane. Texas Cooperative Extension. Fact Sheet No. B-6156. 10 pages
12. Juan Enciso and Michael Mecke. June 2004. Utilizando Energia Renovable para Bombear Agua. Texas Cooperative Extension. Fact Sheet No. L-5457S. 6 pages.
13. Juan Enciso and Michael Mecke. June 2004. Using Renewable Energy to Pump Water. Texas Cooperative Extension. Fact Sheet No. L-5457. 6 pages.
14. Juan Enciso. July 2004. Instalando Sistemas de Riego Subsuperficiales de Riego por Goteo para Cultivos en Linea. Texas Cooperative Extension. Fact Sheet No. B-6151S. 8 pages.
15. Juan Enciso. July 2004. Installing a Subsurface Drip Irrigation System for Row Crops. Texas Cooperative Extension. Fact Sheet No. B-6151. 8 pages.
16. Juan Enciso, Dana Porter, Paul Colaizzi, and Guy Fipps. May 2004. Irrigation of Forage Crops. Texas Cooperative Extension. Fact Sheet No. B-6150. 8 pages.
17. Juan Enciso, Dana Porter, Jim Bordovsky, and Guy Fipps. September 2004. Dándole Mantenimiento a los Sistemas Subsuperficiales de Riego por Goteo. Texas Cooperative Extension. Fact Sheet No. L-5406S. 6 pages.
18. Juan Enciso, Dana Porter, Jim Bordovsky, and Guy Fipps. September 2004. Maintaining Subsurface Drip Irrigation Systems. Texas Cooperative Extension. Fact sheet No. L-5406. 6 pages.
19. Dana Porter, Rusell Persyn and Juan Enciso. August 1999. Groundwater Conservation Districts: Success Stories. Texas Agricultural Extension Service. Fact Sheet No. B-6087. 8 pages.

HANDBOOKS (4)

1. Alvarado, Manuel, and Juan Enciso. 2007. Uso de Politube en Riego por Superficie. Folleto No. 16. Septiembre de 2007. Publicado por INIFAP y SEGARPA. 16 pages.

2. Enciso-Medina, J., J. C. Herrera, and E. Peña. 1995. Planning Irrigation Technology (Spanish). IMTA. 96 p. Ed. Servicios gráficos de Morelos. S.A. de C.V. 500 ejemplares. ISBN 968-7417-08-0.
3. Enciso-Medina, Juan. 1995. Basics on Fertigation (Spanish). IMTA. 24 Págs. Ed. Servicios gráficos de Morelos. S.A. de C.V. 500 ejemplares. ISBN 968-7417-09-9.
4. Enciso-Medina, J. 1992. When and How to Irrigate (Spanish). IMTA.

CHAPTERS IN BOOKS (5)

1. Enciso Juan. Clogging and Maintenance of Sustainable Micro Irrigation Systems. 2014. Research Advances in Sustainable Micro Irrigation. Chapter 7 Volume 4 by Senior Editor Megh R. Goyal, PhD. PE. Management Performance, and Application of Micro Irrigation Systems. To be published by Apple Academic Press.
2. Henggeler, J. C., J. M. Enciso, W. L. Multer and B.L. Multer. 2002. "Deficit subsurface irrigation of cotton". FAO. Deficit Irrigation Practices 22:29-39. Rome.
3. Enciso-Medina J. "Design of Sprinkler Irrigation Systems." Invitation chapter. 1994. Design of small irrigation areas. Chapter: Design of pressurized irrigation systems (Spanish). Pages 123-134. Mexican Institute of Water Technology and National Water Commission. ISBN 968-7417-13-7.
4. Enciso-Medina, J., B. de Leon-Mojarro, and L. Medina-Bocanegra. 1994. "Flow Measurement and Control Structures" (Spanish). Workshop on the technification of irrigation and interplot networks. Ed. Comisión Nacional del Agua. P. 2-14. México. Objective: TEACHING.
5. Enciso Medina Juan. 1993. "Design of Drip Irrigation Systems" (Spanish). III curso internacional de sistemas de riego. Ed. Universidad Autonoma de Chapingo. Vol. 5 p. 78-109. 1993. Objective: TEACHING.

COURSES TAUGHT Lifetime: Bachelor's level (5), Masters level (7)

Universidad Autónoma "Antonio Narro"

Bachelor's level:

1. Management of irrigation systems-Forage crops. 1st semester 1992.
2. Management of irrigation systems-Horticulture. 1st semester 1992.
3. Design of surface irrigation systems. 1st semester 1992.

Michoacan State University

Bachelor's level:

4. Hydraulics I. Full year course for two class groups. 1998
5. Irrigation and Drainage. Full year course 1998.

Master's level:

5. Surface irrigation. Short course.

Universidad Nacional Autónoma de México:

Master's level:

6. Hydraulics of irrigation systems. Second semester 1993.
7. Management and operation of irrigation systems. First semester 1994.
8. Design of irrigation systems. Second semester 1994.
9. Research studies I. First semester of 1995.
10. Advanced design of irrigation systems. Second semester 1995.
11. Research studies I. Second semester 1995.

GRADUATE STUDENT COMMITTEES AND THESIS ADVISED Lifetime:
Bachelor's level (1), Master's level (5), co-advised (2)

1. Anwar Olvera, 2010. Desarrollo de Prototipo de Diseño de Sistema de Riego Presurizado Mediante Técnicas de Agricultura de Precisión para el uso Sustentable del Agua y la Energía en la Producción Agrícola de Azua, República Dominicana. Committee Member. Master in Science Specialty Environmental Sciences. Instituto Tecnológico de Monterrey. Monterrey, N.L. Mexico.
2. Deba P. Dutta, 2008. Characterization of drip emitters and developing distribution uniformity in a drip irrigation system at low pressure under uniform land slope. Master thesis. Committee Member. Biological and Agricultural Engineering Department. Texas A&M University.
3. Irema Wesselman, 2007. Department of Agronomy & Resource Sciences, 2005 Masters Texas A&M University-Kingsville, MSC 228, Kingsville, TX 78363.
4. Vazquez-Magaña Jesús. 1997. Irrigation flexibility in the Costa de Chila Nayarit irrigation project. Master thesis. Division de Estudios de Posgrado de la Facultad de Ingeniería. UNAM.

5. Lopez-Hernandez Isaias Tranquilino. 1997. "Development of a fertilizer injector device, and numeric simulation of its distribution in a gated pipe". Master thesis. Division de Estudios de Posgrado de la Facultad de Ingeniería. UNAM.
6. Felix-Sanchez Jose Angel. 1996. "Evapotranspiration estimates for maize and yield predictions for the Yaqui Valley, Sonora, Mexico". Master's thesis. Instituto Tecnológico de Sonora. Cd. Obregón, Son.
7. Suarez-Medina Maria de los Angeles. 1995. "Optimization of the technification level for an irrigated module". Master thesis. Division de Estudios de Posgrado de la Facultad de Ingeniería. UNAM.
8. Jahen Salvador. 1994. "Evaluation of the installation and operation of a constant flow structure (aquacontrol)". Bachelors thesis. Colegio Superior de Agricultura del Estado de Guerrero.

SHORT COURSES GIVEN

1. Water users organizations: Design, operation, and maintenance of pumping systems. August 1992. Tizimin, Yucatán.
2. Agrometeorology engineers: Real time irrigation. Instituto Tecnológico de Sonora. Experimento Meteorológico Verano de 1993 (EMVER). Julio 1993.
3. National Water Commission Engineers: Workshop on: "Implementation of irrigation technology I". 80 hours. August 7-11, 1995. Jiutepec, Mor.
4. National Water Commission Engineers: Workshop on: "Implementation of irrigation technology I". 80 hours. August 21-25, 1995. Jiutepec, Mor.
5. National Water Commission Engineers: Workshop on: "Implementation of irrigation technology II". 80 hours. November 6-17, 1995. Jiutepec, Mor.
6. National Water Commission Engineers: Workshop on: "Implementation of irrigation technology II". 80 hours. November 27- December 25, 1995. Jiutepec, Mor.
7. Third International Course on Irrigation Systems. Instructor of the course "Design of T-tape systems". 1995. Chapingo, Mexico.
8. Fertigation short courses to an agrochemical company "COSMOCEL". 8 hours. August 15, 1994.
9. Four courses per year from 1991 to 1995 to engineers trained on FIRA-Bank of Mexico.
10. Fertigation (two courses of 8 hours each). The Irrigation Association. Leon, Guanajuato, Mexico. 1999

GRANTS RECEIVED.

- 1. Agricultural Demonstration Initiative Project between Texas Cooperative Extension and Harlingen Irrigation District-Cameron County No.1.**
Funded by: Texas Water Development Board-Agricultural Water Conservation Demonstration Initiative. \$145,396 from 03/01/12-02/28/15.
Principal Investigator: Juan Enciso
- 2. USDA-National Institute of Food and Agriculture. A Water and Risk Management Tool for Sustainable Production of Bioenergy Feedstock.** Total Amount Awarded \$1,000,000. Sep 1, 2013 to Aug 31, 2017. Principal Investigator: John Jifon; Co-PIs: John Jifon (P.D.), Robin Taylor, Jaehak Jeong, Luis Ribera, Juan Enciso, James Kiniry.
- 3. Developing Irrigation Management Strategies under Drought Conditions in Texas. Requested to USDA-NRCS.** Conservation Innovation Grants Fiscal Year (FY) 2013 Adaptation to Drought Announcement Region. From 02/27/2012 to 02/26/2014. Requested: \$ 232,552.
- 4. Economic and Water Use Efficiency of Bioenergy Feedstock.** Project was submitted by Dr. Juan Enciso, Dr. Luis Ribera, and Dr. Shad Nelson. Texas A&M AgriLife Research Bioenergy Initiative Program. PI: Juan Enciso, CoPIs: John Jifon, Luis Ribera. Awarded \$200,000. Sept 1, 2013- Sept 1, 2015.
- 5. Water Use Efficiency of Bioenergy Feedstock.** Funded by: Chevron (internal funding). Amount Requested: \$ 55,000.00. From 1-Jan-2013 to 31-Dec-2013
Project was submitted by Dr. Juan Enciso, Dr. John Jifon, Dr. Luis Ribera, Dr. Carlos Fernandez. Principal Investigator: Juan Enciso
- 6. Alternative Approaches to Sustainable Agriculture Targeting Small Hispanic Operators and College Agriculture Students in the Lower Rio Grande Valley.Funded by: USDA- OASDFR.** Outreach and Assistance for Socially Disadvantaged Farmers and Ranchers. Outreach Assistance from 02/27/2012 to 02/26/2014, Requested: \$798,541.00. Approved: \$299,453.00. My part of the budget: \$12,196.00. PI: Luis Ribera; Co-PIs: Juan Enciso, Donnie Valdez, Raul Villanueva, David Anderson, Roel Lopes, Maria Gutierrez, Angelica Lopez. 1-Jan-2012 to 1-Dec-2012
- 7. Evaluating Corn Yield and Insect Abundance in Fields with Modified Planting, Enhanced Water Use, Reduced Tillage and Without Crop Rotation. Requested to Texas Corn Producers Board – 2013.** Requested amount \$15,183. Project Period. January 1, 2013 to December 31, 2013. Project was submitted by Dr. Raul Villanueva, Dr. Juan Enciso and Donnie Valdez. Principal Investigator : Dr. Raul Villanueva.

8. **Evaluating Subsurface Drip Irrigation Systems.** . Project No. 08-342TX. Funded by the Texas Sate Support Committee. The total amount funded for 2008 was \$12,000, \$11,839 for 2009, and \$12,000 for 2010. Principal investigator: Juan Enciso.

9. **Agricultural Demonstration Initiative Project Between Texas Cooperative Extension and Harlingen Irrigation District-Cameron County No.1.** Funded by: Texas Water Development Board-Agricultural Water Conservation Demonstration Initiative. Extension: \$149,000 from 02/01/09-02/28/12. Principal Investigator: Juan Enciso Extension. Xavier Peries (Extension Associate) was under my supervision receiving a salary of \$52,562.

10. **Arroyo Colorado Basin Agricultural Assessment.** Funded by Texas State Soil and Water Conservation Board. The total amount funded was \$430,650 from 10/1/2006 to 6/30/2010. Principal Investigator: Dr. Alan Jones. I'm Co-PI and I'm responsible for 94,836.00.

11 **Injecting Phosphoric Acid through Subsurface Drip Irrigation Systems.** Project No. 04-480TX. Funded by the Texas Sate Support Committee. The total amount funded for two years was \$15,575.00. Principal investigator: Juan Enciso. The budget for the project was \$7,151.00 from 01/01/04 to 12/31/04; and \$8,424.00 from 01/01/05 to 12/31/05; \$6,748.00 from 01/01/06 to 12/31/06/

Efficient Irrigation for Water Conservation in the Rio Grande Valley. Project sponsored by the USDA-CREES under the Rio Grande Initiative-Task 4. The total amount funded for four years was \$269,213.00. Principal investigator: Juan Enciso. The budget for the project was \$19,800.00 from 5/15/01 to 5/14/02; \$19,800.00 from 5/15/02 to 5/14/03; \$29,000.00 from 05/15/03 to 05/14/04; \$45,000.00 from 05/15/04 to 05/15/05; \$49,950.00 from 05/15/05 to 05/15/06; Amount \$76,583, Research (61,583) and Extension (\$15,000) from 6/1/06 to 5/31/07; Amount: \$95,000, Research (\$50,000) and Extension account (\$45,000) from 6/1/07 to 5/31/08; Amount \$155,614, Research: \$81,656 and Extension: \$73,957.83 from 15-Jul-2009 to 14-Jul-2011.

12. **Grapefruit Fertilization in the Lower Rio Grande Valley of Texas.** Project funded by Texas Citrus Producers Board. Amount \$4,000.0 for 1 year. Bob Wiedenfeld, Julians Sauls and Juan Enciso. I am responsible for \$1,000.00

13. **Agricultural Demonstration Initiative Project between Texas Cooperative Extension and Harlingen Irrigation District-Cameron County No.1.** Funded by the Texas Water Development Board-Agricultural Water Conservation Demonstration Initiative. Principal investigator: Juan Enciso Extension amount

funded: \$42,814 from 02/28/07 to 02/29/08; \$52,368 from 02/28/08 to 02/29/09 and \$140,000 from 03/01/12-02/28/15.

5. **The Use Of Wastewater To Irrigate Vegetable Crops With Subsurface Drip Irrigation Systems. 2002.** Texas Department of Agriculture. Naomi Assedian and Juan Enciso are the cooprincipal investigators. Texas Department of Agriculture. \$24,908.73
9. **Salinity Management with Pressurized Irrigation systems and Deficit Irrigation conditions. 2003-2001.** Project No. 01-948TX. The budget for the project for the first year was \$19,012.00. The second year the project was funded for \$10,666.00.
10. **Efficient Irrigation For Water Conservation In The Rio Grande Valley, sponsored by the USDA-CREES. 2003-2002.** Allan Jones and Juan Enciso are the cooprincipal investigators under task no. 4. Amount \$19,000.00
11. **Optimizing Irrigation Frequency And Dripline Spacing For Deficit Irrigation. 2002-2001.** Project 00-767TX. The budget for the grant was for \$16,000.00, and it was funded for 1 year. Bryan Unruh and Juan Enciso were the cooprincipal investigators. funded for 2 years.
12. **Cotton Irrigation With Subsurface Drip Irrigation Systems. 2000.** USDA-NRCS Equip Program. Grant to implement an education program in the North Concho River. \$4,800.00.

AWARDS AND HONORS

1. **First place in academic achievement of the LIX graduating class of irrigation specialists.** Universidad Autonoma Agraria “Antonio Narro”.
2. **Widaman Trust Distinguished Graduate Assistant award, 1991-1992.** University of Nebraska-Lincoln.
3. **National research candidate,** National Mexican Research System. 1992-1995, 1995-1996. CONACYT, Mexico. (by election)
4. **CONACYT 1987-1991.** Competitive national award providing financial support for four years. Mexico.
5. **American Society of Agricultural Engineers Blue Ribbon Award for an outstanding entry in the 2006 Education Aids Competition Publications: Fact Sheets category** presented to Juan Enciso and Xavier Peries. Using Flexible Pipe with Surface Irrigation. L-5469 and L-5469S.

6. **Texas Environmental Excellence Award, 2006.** Youth – Weslaco High School. Students installed a drip line and sprinkler irrigation system under the direction of the Texas A&M Agricultural Experiment Station. A 4-H plaque was given to Dr. Juan Enciso.
7. **Vice Chancellor's Award in Excellence, 2006.** It was awarded to Juan Enciso, Ari Michelsen, Giovanni Piccini, Edward Rister, and Bob Wiedenfeld in recognition for outstanding contributions and performance as a Member of The Rio Grande Initiative Research Team. The Texas A&M University System.
8. **"Superior Paper Award" from the American Association of Agricultural and Biological Engineers, 2008.** It was awarded to Juan Enciso along with Warren Multer, Paul Colaizzi and Charles Stichler during the ASABE Annual International Meeting in Providence, Rhode Island for the paper titled "Cotton Response to Phosphorus Fertigation Using Subsurface Drip Irrigation". This prestigious award represents the most outstanding papers from ASABE publications of Applied Engineering in Agriculture, Transactions of ASABE and the Journal of Agricultural Safety and Health.
9. **Texas Environmental Excellence Award – Agriculture, Texas Commission on Environmental Quality, 2008.** This award spotlights the state's highest achievements in environmental preservation and protection. Co-recipient with all Rio Grande Basin Initiative participants and collaborators.

PROFESSIONAL MEMBERSHIP

American Society of Agricultural Engineers – Member
 Chair-ASAE Committee SW-245 Microirrigation. 2002-2004
 Member-ASAE Committee SW-241 Sprinkler irrigation. From 1992
 Irrigation Association-Member
 Mexican Society of Irrigation Specialists – Member
 Gamma Sigma Delta. Honor Society of Agriculture.

EDITORSHIPS, AND REFEREESHIP

Associate Editor for the Transactions of the ASABE and Applied Engineering in Agriculture. 12/09 to Present.

Associate Editor for the Journal of Subtropical Science. Active since 1/07

VISITING POSITIONS/PROFESSORSHIP

Visiting Scientist. Trinidad Tobago and Jamaica. 1996. International cooperation

in irrigation management with West Indies University. Gave lectures on irrigation management and supervised some irrigation programs.

Visiting Scientist. France and Spain. July 1997. Exchange information in pressurized irrigation networks with CEMAGREF, Aix an Provence, France; and with CEDEX in Spain.

Visiting Scientist. France and Spain. July 1996. Tour to study different irrigation laboratories at CEMAGREF in France and CEDEX in Spain to evaluate irrigation components.