

Patrick David Tara P.E.

Research Associate
University of South Florida
Department of Civil Engineering and Mechanics
Center for Modeling Hydrologic and Aquatic Systems

Education

University of South Florida	Civil Engineering	MSCE	1989-91
University of South Florida	Civil Engineering	BSCE	1987-89
Saint Petersburg Junior College	Engineering	AS	1984-87

Professional Experience

1989-present University of South Florida
Center for Modeling of Hydrologic and Aquatic Systems
Job Description: Research Associate, Engineer
Responsibilities: Project Management; Water Resource Engineer; Hydrologist;
Computer Modeling; GIS Specialist
Projects: SWFWMD Integrated Hydrologic Model for District-Wide Water
Resources Management
Pinellas Co/SWFWMD SWIM Lake Tarpon Water Quality
Management Model
U.S. Fish and Wildlife Service GIS based Water Rights Management
Model
FDOT Fundamental Sediment Scour in Tidal Inlets
Florida Institute for Phosphate Research -Hydrology Research Project

1989-present Hydrosystems Associates, Inc.
Job Description: Hydrologist, Hydraulic Engineer
Responsibilities: Modeling; Data Analysis; Report Preparation and
Presentations; Field Data Collection
Projects: WQBEL Studies, Permitting Analyses, Scour Analyses, Field Surveys

Honors

AWRA "Outstanding Student Award," 1990
Graduated with honors "Cum Laude" 1989
Tau Beta Pi Engineering Honor Society
Chi Epsilon Civil Engineering Honor Society

Professional Organizations

American Water Resources Association (AWRA)
American Society of Civil Engineers (ASCE)

Professional Registration

Professional Engineer (P.E.) #48877, February 1995
Engineer In Training (E.I.) #489ET399, April 1989

Publications and Technical Reports

Refereed Papers

Ross, M. A., and Tara, P. D., "Integrated Hydrologic Modeling with GIS", American Society of Civil Engineering, Journal of Water Resources Planning and Management, Vol. 119, No. 2, March/April 1993.

Symposia Publications

Ross, M. A., Tara, P. D., and Geurink, J., "On Integrated Modeling of Large Multi-Basin Areas: Lessons Learned", Groundwater Management, Proc. of the International Symposium, Randall J. Charbeneau, ed., San Antonio, TX, August 1995.

Ross, M. A. and Tara, P. D., "Integrated Modeling for Reclamation and Regional Water Management", Peace River Planning Conference, Proc. of, Bartow, Florida, February, 1995.

Tara, P. D., and Ross, M. A., "Advancements in Integrated Hydrologic Modeling for Mine Reclamation", Wetlands: 21st. Annual Conf. on Wetland Restoration and Creation, Tampa, Florida, May 1994.

Ross, M. A., Tara, P. D., Burdge, J., "New Directions in Integrated Hydrologic Modeling with GIS", American Water Resources Association, 1993 National Conference on Hydraulic Engineering, "Exemplary Systems for GIS Applications in Surface Water Hydrology", San Francisco, California, July 25-30, 1993.

Ross, M. A., Tara, P. D., Schwartz, M., "Groundwater Modeling with GIS", 1991 National Conference on Hydraulic Engineering and International Symposium on Groundwater, July 1991, Nashville, Tenn.

Ross, M. A., Fielland, C. E., Tara, P. D., "An Integrated GIS/Hydrologic Model for Phosphate Mining Reclamation Design and Analysis", ASCE Special Conference on GIS and Remote Sensing, May 1991, Washington, DC.

Tara, P. D., Ross, M. A., "GIS Analysis for Hydrologic Modeling", 8th National Conference on Microcomputers in Civil Engineering, ASCE, Orlando, FL, 1990.

Ross, M. A., Fielland, C. E., Tara, P. D., "An Integrated GIS/Hydrologic Model for Phosphate Mining Reclamation Design", 26th Annual AWRA Conference - The Science of Water Resources: 1990 and Beyond, Denver, Co, 1990.

Tara, P. D., "Using GIS for Spatial Data Analysis for Hydrologic Modeling" Tydac Technologies SPANS Users Conference, June 1990, Annapolis Maryland.

PUBLISHED REPORTS

Ross, M. A., Tara, P. D., Geurink, J. S., Stewart, M. T., December 1997. FIPR Hydrologic Model Users Manual and Technical Documentation Prepared for the Southwest Florida Water Management District, by the Center for Modeling Hydrologic and Aquatic Systems. University of South Florida, Tampa, FL.

Ross, M. A., Tara, P. D., Geurink, J., February 1994. The FHM Integrated Model Application to the Quivira National Wildlife Refuge - Final Report. Prepared for the US Department of the Interior, Fish and Wildlife Service, Region 6, by the Center for Modeling Hydrologic and Aquatic Systems. University of South Florida, Tampa, FL.

Halley, Mary C., Ross, Mark A., and Tara, Patrick D., "Lake Tarpon Water Quality Management Model", Prepared for The Pinellas County Department of Environmental Management, by The Center for Modeling Hydrologic and Aquatic Systems, University of South Florida, Tampa, FL, April, 1992.

Tara, P. D. (co-author), Florida Institute of Phosphate Research (FIPR), FIPR Hydrologic Model: Volumes 1 and 2, Technical and Users' Documentation, 1992, 93, 94.

Private Reports

Hydrosystems Assoc., "Water Quality Based Effluent Limitation Study", Royster Phosphate, Inc., July 1991.