

Curriculum Vitae
Mark A. Ross

POSITIONS AND CONTACT INFORMATION

Professor, Department of Civil and Environmental Engineering
Director, Center for Modeling Hydrologic and Aquatic Systems, College of Engineering, University of South Florida, Tampa, FL, 33620 , CMHAS, (813) 974-5836, fax: (813) 974-5835, CEE Office (813) 974-2275,
Email: maross@usf.edu, Website: <http://www.eng.usf.edu/~mross/>

EDUCATION

Ph.D, Civil Engineering, Coastal Hydraulics, University of Florida, 1988
MSE, Civil Engineering, Water Resources, University of South Florida, 1982
BSE, Civil Engineering, Water Resources, University of South Florida, 1982

PROFESSIONAL EXPERIENCE

Present Affiliations

Professor, Department of Civil & Environmental Engineering, University of South Florida, September 2007-present. (Joint appointment: Professor, College of Public Health)
Associate Professor, Department of Civil & Environmental Engineering, University of South Florida, September 1994-2007. (Joint appointment, College of Public Health)
Director, Center for Modeling Hydrologic and Aquatic Systems, University of South Florida, 1998-present.
President, Hydrosystems Inc., 2001-Present.

Past Positions/Affiliations

Associate Professor, Department of Civil & Environmental Engineering, University of South Florida, September 1994-2007. (Joint appointment, College of Public Health)
President, Hydrosystems, Inc., 2000-present. (email: hydromodels@verizon.net)
President, Hydrosystems Associates Inc., 1999-2001.
Assistant Professor, Department of Civil & Environmental Engineering, University of South Florida, 1990-1994.
Associate Director, Center for Modeling Hydrologic and Aquatic Systems, University of South Florida, 1988-1998.
Consultant and Chief Engineer, Hydrosystems Associates Inc., 1998-1999.
Consultant and Sr. Hydraulics Engineer, Hydrosystems Associates Inc., 1984-1998.
Visiting Assistant Professor, Department of Civil Engineering & Mechanics, University of South Florida, 1987-1990.
Research Assistant, Department of Coastal and Oceanographic Engineering, University of Florida, 1985-1987.
Hydrologist, Hydrosystems Associates Inc., 1982-1984.
Research & Teaching Assistant, University of South Florida, 1981-1982.

PROFESSIONAL REGISTRATION

Florida Professional Engineer (P.E.) License Number: 0042721

RESEARCH

RESEARCH INTERESTS

Dr. Ross's research interests are in water resources engineering, especially in the areas of hydrologic; hydraulic and water quality modeling with an emphasis on shallow water table systems. Recent research includes developing a new integrated surface and groundwater flow model; developing and conducting field studies and exploring new measurement technologies to quantify surface & groundwater interactions; use of GIS and remote sensing technologies in hydrology; and coastal storm surge modeling, coastal sediment transport and tidal inlet interaction studies. Dr. Ross continues to be active in the development of lake and estuary water quality management models and in estuary sediment dynamics.

RESEARCH GRANTS (Principal Investigator, PI, or co-PI only, USF Co-PIs listed)

Funded Projects by Category

Alternative Energy

USDOE, Geologic Bulk Hydrogen Storage, Modeling Deep Aquifer Conditions, sub-project of Hydrogen and Fuel Cell Research. US Department of Energy (DOE), Co-PI with Dr. L. Stefankos, contract no. , overall project funding \$3M, modeling subtask , ~\$100K/ Year, 2005-7.

Water Resources Investigations: Field Investigations, Modeling and Systems Management

- Tampa Bay Water, Assessment of the Integrated Northern Tampa Bay Model, Scenarios with no Groundwater Pumping, 2104126200, 8/1/2016-2/28/2017, \$24,842.

Mosaic Mine-Wide Surface and Groundwater Model: Phase I, award period 11/15/10 to 11/14/14, vars. Award nos., total award \$1.2M.

Mosaic Mine-Wide Surface and Groundwater Model: Phase II, Award period 11/14/12 to 12/31/13, 2104119200, total award \$217,308

SWFWMD, Development of irrigation time series for IHM INTB model domain, \$23,338, 9/1/2008 to 9/30/2009, 21041120.

USGS Water Resources Center, Administered Through University of Florida, Measurement of ET and water fluxes in Deep Water Table Environments, \$25000 (2009), \$25000 (2008), \$25000 (2007) funded. Sole PI. USGS Hydrologic Data Collection Group, Lake Starr groundwater flow model, 21041100 (5/1/07 to 9/30/09) \$74,522, funded. Sole PI.

Davis and Harmon, Measurement of Evapotranspiration in shallow water table irrigated agriculture, \$95,000, funded. Sole PI.

NSF, Micro-metrological/Hydrological implications on Linking the Qattara Depression with the Mediterranean Sea, funded initial amount \$50,000, 2104 9999?, co-PIs: A. Said, K. Trout, M. Stewart, 2006-7

SWFWMD, Measurement of Evapotranspiration, Recharge and Runoff in a Transitional Water Table Environment, funded, 21041063, \$591,177, co-Pi: Ken Trout, 2006-2010.

SWFWMD, Certification of IHM-MODFLOW, USF Project 21041041, \$15,929, 2005.

NATO, Science for Peace Initiative, Cooperative Integrated Modeling and Water Resources Investigation of the Azerbaijan Peninsula, 240k (Euros), USF Project No. unassigned, 2006-2008.

FIPR, Hydrology of (Phosphate-Mined) Clay Settling Areas, Florida Institute of Phosphate Research, USF Project No. 21041042, 21041106, co-PI with Ken Trout, \$931,000, 2005-2008.

ECT, South Fl Meade Extension Project Hydrogeologic Modeling Effort, USF Project No. 21041046, \$176,511, 2005-2006.

SWFWMD, Hydrologic Modeling of Ungaged Streamflow in the Charlotte Harbor Estuary Basin, USF project Nos. 2104390 & 21041023, \$176,200, 2004.

TBW, Measurement of Surficial Aquifer Recharge, ET, Rainfall, Runoff and Stream-Aquifer Interaction Characteristics of the Central and Southern Region of the Southwest Florida Water Management District.,

equipment matching by USF (~\$200,000), USF Nos. 2104353 & 21040000, 2001-2004, \$439,000. 2004.

FIPR, Hydrology of (Phosphate-Mined) Clay Settling Areas – Phase I, USF Project No. 21041015, co-PI with Ken Trout, \$49,076, 2004.

SWFWMD, Hydrologic Modeling of Ungaged Streamflow in the Alafia River Basin, USF Project nos. 2104355 & 2104388, \$103,050, 2002.

SWFWMD, Hydrologic Data Collection and Analysis, USF Project Nos. 2104352, 2104354, & 2104385, \$225,000, 2002-2004.

Intera Inc., Integrated Surface Ground Water Modeling Revisions and Enhancement Project, for TBW, USF Project Nos. 2104370 & 2104383, \$319,640, 2001-02.

FIPR, Hydrologic Investigation of the Phosphate-Mined Upper Saddle Creek Basin, USF Project No. 2104247, \$547,810, 1999-03.

SWFWMD, Development of Interfacial Boundary Conditions for the Southern District Groundwater Model, USF Project Nos. 2104 326, \$163,454, 1999-2000.

FDEP, Supplemental Investigation of Phosphate-Mined Upper Saddle Creek Watershed, USF Project No. 2104264, \$190,476, 1999-2003.

SWFWMD, Integrated Flow Model Review for Northern Tampa Bay, USF Project No. 2104260, \$29,922, 1996-97.

SWFWMD, GIS-Based Multi-Scale Model for Comprehensive Water Management Evaluations, 2104206, \$159,951, 1993-1997.

FIPR, FHM Support, Maintenance and Research, USF Project Nos. 2104 , \$,1992-1995.

USFWS, A GIS Based Refuge Water Management Modeling System, USF Project Nos. 2104165, 2104180, 2104175, 2104199 & 2104188, \$197784, 1991-1994.

USF Research Initiation Funding, Preliminary Investigation of GIS Based Water Management Model, 1991-1992.

BCI Inc., FIPR Hydrology Project, USF Project No. 2104114, \$353,000, 1988-1991.

Wetland Stormwater Quality Treatment; Surface, Groundwater Water Quality and Wastewater Reuse Davis-Harmon, Investigation of hydrologic influences of various farmland irrigation practices on baseflow, funded, various grants budgeted amount \$20,000, 2006-2007

HCS, Installation of Monitoring Wells and Soil Moisture Probes in Taliaferro Stormwater Park, USF Project Nos. 21041044, \$30,288, 2005.

FDEP, Microscopic Particulate Analysis Sampling, USF Project No. 2104330, \$13,547, 2000.

ZES Inc., Ultra-filtration of Hillsborough River Water Pilot Study, USF Project No. 2104321, \$15,000, 1999.

FDEP, Microscopic Particulate Analysis Sampling, USF Project No. 2104317, \$11,224, 1999.

FDEP, Efficiency of Wetlands for Stormwater Treatment and Management, co-PI with Bob Carnahan and Wayne Echelberger, USF Project No. 2104177, \$65,000, 1991-1993.

Hydraulic and Water Quality Modeling of Receiving Water and Estuarine Systems

SWFWMD, Winter Haven Chain of Lakes Pollutant Load Reduction Goal (PLRG) study, USF Project Nos. 2104384, co-PI with Dan Smith and Patrick Tara, \$60,000, 2002-2004.

FDOT, Johns Pass/ Blind Pass Tidal Inlet Study, \$30K, 1998.

PCDEM, Upgrade of the Lake Tarpon Water Quality Management Model, USF Project Nos. 2104227 & 2104212, \$38,983, 1994-95.

KEI, Lake Tarpon Water Quality Management Model Development, for PCDEM, USF Project No. 2104147, \$125,000, 1990-1992

USF Division of Sponsored Research (DSR) and College of Engineering (COE), Research Development Equipment Grant, USF Project No. \$25,000, 1991.

USF DSR & COE, Research Development Equipment Grant, \$20,000, 1990.

Sediment Transport, Erosion, Fluidization, Coastal Scour, Cohesive Sediment Re-suspension

USACE, Waterways Experiment Station (WES), Wave Fluidization Study, 1987. \$25K.

Sediment Transport, Erosion, Fluidization, Coastal Scour, Non-Cohesive Sediment Transport

AA Inc., FDOT District 2, District Wide Scour Study, USF Project Nos. 2104194, 2104187 & 2104205, \$66,323, 1992-1994.

FDOT Research Office, Fundamental Sediment Scour in Tidal Inlets, co-PI with B.E. Ross, USF Project Nos. 2104 , \$25,000, 1991.

Funding Agencies

Ayers Associates Inc. (AA), Bromwell and Carrier, Inc (BCI), Florida Department of Environmental Protection (FDEP), Florida Department of Transportation (FDOT), Southwest Florida Water Management District (SWFWMD), Florida Institute of Phosphate Research (FIPR), South Florida Water Management District (SFWMD), Hillsborough County Stormwater (HCS) Section, King Engineering Inc (KEI), Mosaic, National Science Foundation (NSF), North Atlantic Treaty Organization (NATO), Pinellas County Department of Environmental Management (PCDEM), Tampa Bay Water (TBW), United States Army Corps of Engineers (USACE), United States Department of Agriculture (USDA), United States Department of Energy (USDOE), United States Fish and Wildlife Service (USFWS), United States Geological Survey (USGS), University of Florida (UF), University of South Florida (USF), Zenon Environmental Systems Inc (ZES)

PUBLICATIONS

Published Refereed and Archival Journal Papers

- Zhang, Jing, and Ross, Mark A., 2015. Comparison of IHM and MIKE SHE Model Performance for Modeling Hydrologic Dynamics in Shallow Water Table Settings, *Vadose Zone Journal* ,14(7) · June 2015 DOI: 10.2136/vzj2014.03.0023
- Zhang, Jing, and Ross, Mark A., 2015. Hydrologic modeling impacts of post-mining land use changes on streamflow of Peace River, Florida, *Chinese Geographical Science* 25(6) · March 2015 DOI: 10.1007/s11769-015-0745-2
- Al Qatan, Nael, Ross, Mark and Sunol, Aydin, 2015. A Multi-Period Mixed Integer Linear Programming Model for Water and Energy Supply Planning in Kuwait, accepted for publication in 2014, Manuscript number, CTEP-D-14-00048R1, *Clean Technologies and Environmental Policy* (2015) 17:485-499, DOI 10.1007/s10098-014-0806-8.
- Zhang, Jing, Ross, Mark and Trout, Ken, 2014. Certification Tests of MODFLOW Implementation in the Integrated Hydrologic Model, *Journal of Hydrologic Engineering* 03/2014 19(3):643-648.
- Rahgozar, Mandana, Nirjhar Shah, and Mark Ross, 2012. Estimation of Evapotranspiration and Water Budget Components Using Concurrent Soil Moisture and Water Table Monitoring. *ISRN Soil Science*, Vol 2012/726806, pp15. 2012. doi:10.5402/2012/726806.
- Zhang, Jing, Ross, Mark and Geurink, Jeffrey, 2012. Discretization approach in integrated Hydrologic Model for surface and groundwater interaction, *Chinese Geographical Science* 22(6) · November 2012 DOI: 10.1007/s11769-012-0566-5
- Nirjhar Shah, Ross, Mark and Trout, Ken, 2012. Using Soil Moisture Data to Estimate Evapotranspiration and Development of a Physically Based Root Water Uptake Model, Chapter 6: Evapotranspiration - Remote Sensing and Modeling, Dr. Ayse Irmak (Ed.), ISBN: 978-953-307-808-3, InTech, Available from: <http://www.intechopen.com/books>.
- Nilsson, Ken, Trout, K., and Ross, Mark, 2012. General Model to Represent Multiple Wetland and Lake Stage-Storage Behavior, *ASCE Journal of Hydrologic Engineering*, Vol. 15, No. 10, , pp. 786-795, (doi 10.1061/(ASCE)HE.1943-5584.0000250), October 2010.
- Zhang, Jing, Gong, Huili, Ross, Mark and Zhou, Demin, 2011. Numerical modeling of shallow water table behavior with Lisse effect, *Chinese Geographical Science* 21(2):249-256 · March 2011, DOI: 10.1007/s11769-011-0462-4
- Zhang, Jing and Ross, Mark, 2010. Modeling Evapotranspiration of Two Land Covers Using Integrated Hydrologic Model, *Journal of Irrigation and Drainage Engineering* 136(8) · July 2010 DOI: 10.1061/(ASCE)IR.1943-4774.0000209
- Zhang, J., Said, A., Ross, M.A., 2009. Approach Using Active groundwater Storage for Hydrologic Model Calibration in West-Central Florida. *Journal of Irrigation and Drainage Engineering*, ASCE, Vol. 136, No. 1, 16pgs February 2010.
- Zhang, J., M. Ross, J. Geurink and Gong, Huili. 2010. Modeling vadose zone moisture dynamics in shallow water table settings with the Integrated Hydrologic Model: Field scale testing and application. *Water and Environment Journal*, 24 Volume 24, Number 1, March 2010, pp. 9-20(12) .
- Zhang, J., Ross, M.A., Trout, K. and Zhou, D., 2009. Calibration of the HSPF model with a new coupled FTABLE generation method. *Progress in Natural Science*, Vol. 19, pp1747-1755, Elsevier Press Limited. July 2009.
- Shah, N. and Ross. M. A., 2009. Variability in Specific Yield under Shallow Water Table Conditions. *Journal of Hydrologic Engineering*, ASCE, Vol. 14, No. 12, pp 1290-1299, December 2009.
- Zhang, Jing, Ross, Mark, Trout, Ken, and Zhou, Demin, 2009. Calibration of the HSPF model using a new coupled FTABLE generation method, *Progress in Natural Science* 19(12):1747-1755 · November 2009 DOI: 10.1016/j.pnsc.2009.07.006
- Zhang, J., Shah, N., and Ross, M. A., 2009. Long term air entrapment affecting runoff and water table. *Int. J. Water*, Vol. 5 No. 2, pp. 140-162. DOI 10.1504/IJW.2009.028723.
- Zhang, Jing, Gong, Huili, Xiaojuan, Li and Ross, Mark, 2009. Effects of mining on the ecosystems integrating GIS and hydrological model, *Geoinformatics*, July 2009, DOI:

10.1109/GEOINFORMATICS.2009.5293541

- Murphy, Kathryn, E., Rains, Mark C., Michael G. Kittridge, Mark T. Stewart, and Mark A. Ross, 2008. "Hydrology of Clay Settling Areas and Surrounding Landscapes in the Phosphate Mining District, Peninsular Florida", Journal of the American Water Resources Association (JAWRA), Vol. 2, No.11, pp1752-1788, June 2008.
- Nilsson, K., Mark A. Ross, and Kenneth E. Trout, Analytical Method to Derive Wetland Stage-Storage Relationships Using GIS areas, Journal of Hydrologic Eng., ASCE, Vol. 13, No. 4, pp. 278-282, April 2008.
- Shah, N., M. Ross, and G.S. Ladde. 2008. Dynamic Modeling of Root Water Uptake Using Soil Moisture Data. Neural, Parallel and Scientific Computations, Vol.16, No. 1, pgs. 105-124, Dynamic Publishers, USA.
- Foster, L. N. Shah, M.Ross, and G.S. Ladde, P. Wang. 2008, "Using Frequency Analysis to Determine Wetland Hydroperiod, Neural, Parallel and Scientific Computations, Vol.16, No. 1, pgs 17-34, Dynamic Publishers, USA.
- Murch, Renee, Zhang, J., Ross, M., and Nachabe, Mahmood, 2008. Evaluation of Statistical Disaggregation Methods using Rain-Gage Information for West-Central Florida, Journal of Hydrologic Engineering, ASCE, Vol. 13, No. 12, November/December 2008, pp. 1158-1169.
- Shah, N., M. Nachabe, and M.Ross. Extinction Depth and Evapotranspiration from Ground Water under Selected Land Covers. Ground Water Volume 45, No. 3: 329-338. 2007.
- Stewart, M., Cimino J., and Ross, M. 2007. Calibration of Base Flow Separation Methods with Stream Flow Conductivity. Ground Water, Volume 45, No. 1, pp:17-27.
- Zhang,, Jing and Mark A. Ross. Two Layer Vadose Zone Model for Surface and Groundwater Interactions. Journal of Hydrologic Engineering, ASCE, Vol 12, No. 6: 663-675, November/December 2007.
- Mueses, Auristela, Said, Ahmed, and Mark Ross, Generalized Nondimensional Depth-Discharge Rating Curves Tested on Florida Streamflow, Journal of the American Water Resources Association (JAWRA), 43/2, pp 473-481, March/April 2007,
- Trout, Ken and Mark Ross, Estimating Evapotranspiration in Urban Environments, Urban Groundwater Management and Sustainability, J.H. Tellam, et al., editors, pgs 157-168, Springer 2006.
- Said, Ahmed, M. Ross, K. Trout, and J. Zhang, Simulation of Surface Water for Un-Gauged Areas with Storage-Attenuation Wetlands, JAWRA Journal of the American Water Resources Association 43(2):546 - 556 · March 2007 DOI: 10.1111/j.1752-1688.2007.00043.
- Said, Ahmed, M. Ross, K. Trout, and J. Zhang, Simulation of Streamflow Discharges from Ungaged Areas to Charlotte Harbor, Florida, Journal of the American Water Resources Association (JAWRA), Vol. 42, No. 6, November/December 2006.
- Geurink, Jeffrey S. and Ross, Mark A., Time-Step Dependency of Infiltration Errors in the HSPF Model, J. Hydrologic Engrg., ASCE, Vol. 11, No. 4, pp296-305, July/August 2006.
- Said, Ahmed, M. Nachabe, M. Ross, and J. Vomacka, Methodology for Estimating Specific Yield in Shallow Water Environment Using Continuous Soil Moisture Data, Journal of Irrigation and Drainage Engineering, ASCE, 131(6), 533-538, November/December 2005.
- Trout, Ken and Mark Ross, Intensive Hydrologic Data Collection in a Small Watershed in West-Central Florida, Hydrological Science and Technology, Journal of the American Institute of Hydrology (AIH), Volume 21, Nos. 1-4, pgs 187-195, November 2005.
- Ross, Mark, Ken Trout, Patrick Tara, Ahmed Said and Jeffrey Geurink, A New Discretization Scheme for Integrated Surface and Groundwater Modeling, Hydrological Science and Technology, Journal of the American Institute of Hydrology (AIH), Volume 21, Nos. 1-4, pgs 143-156, November 2005.
- Ross, Mark, Ahmed Said, Jeff Geurink, Alaa Aly, Patrick Tara, Evapotranspiration Hierarchy and Allocation for Integrated Surface and Groundwater Modeling in West-Central Florida, Hydrological Science and Technology, Journal of the American Institute of Hydrology (AIH), Volume 21, Nos. 1-4, pgs 157-176, November 2005.
- Manda Rahgozar, Mark Ross and Ahmed Said, Estimation of Evapotranspiration and Hydrologic Parameters Using Continuous Soil Moisture and Water Table Monitoring, Hydrological Science and Technology, Journal of the American Institute of Hydrology (AIH), Volume 21, Nos. 1-4, pgs 119-142, November 2005.
- Ross, Mark, Jeffrey Geurink, Ahmed Said, Alaa Aly and Patrick Tara, 2005, Evapotranspiration

- Conceptualization in the HSPF-MODFLOW Integrated Models, Journal of the American Water Resources Association (JAWRA), 41(5), 1013-1025, October, 2005.
- Nachabe, Mahmood, N. Shah, M. Ross, J. Vomacka, Evapotranspiration of Two Vegetation Covers in a Shallow Water Table Environment, Soil Sci. Soc. Am. J., 69:492-499, 2005.
- Hernandez, T., Nachabe, M. and Ross, M., Modeling Runoff from Variable Source in Humid, Shallow Water Table Environments, Journal of the American Water Resources Association (JAWRA), American Water Resources Association, 39(5), pp75-85, February 2003.
- Vincent, M., Luther M., and Ross, M., Analysis of the Tampa Bay Coastal Prediction System, Coastal and Estuary Modeling, ACSE 5:1023-1044, 2001.
- Becker, M.L. and Ross, M.A., Interaction of Tidal Inlets in a Multi-inlet Bay System: A Case Study Along the Central Gulf Coast of Florida, J. Coastal Research., CERF, 17,4:836-849, 2001.
- Trout, K., Stewart M., Ross M., and Tara P., Parameter Optimization and Uncertainty Analysis of an Integrated Hydrologic Model, Daniels, W.L., and S.G. Richardson (Eds.). 2000. Proceedings, 2000 Annual Meeting of the American Society for Surface Mining and Reclamation, -pp 694-699. Tampa, Fla., June 11- 15, 2000. Amer. Soc. Surf. Mining Rec., 2000.
- Ross, Mark A., Aplicación de los sistemas de información geográfica en la gestión de las aguas de tormenta, Uso del Subsuelo en el control y Gestión de Aguas del Tormenta, Ovieda, Spain, March 1997.
- Ross, Mark A., El control y las gestión de los aguas de tormenta en Florida: casos de las ciudades de Orlando y Tampa, Uso del Subsuelo en el control y Gestión de Aguas del Tormenta, Ovieda, Spain, March 1997.
- Ross, Mark A., Las aguas del tormenta en la minería. Caso de la minería de fosfatos en Florida, Uso del Subsuelo en el control y Gestión de Aguas del Tormenta, Ovieda, Spain, March 1997.
- Ross, Mark A., and Stefanakou, Georgia I., Investigation of Artificial Recharge on West Central Florida Wellfields: Cone Ranch, A Case Study, American Water Resources Association, Annual Conference, October 1997.
- Ross, M.A., Status of GIS in Water Systems, *GIS in Urban Water & Management*, Elgy, J. and Maksimovic, C. editors, Water Resources Publication, Publishers, H. Collins, Colo., Fall 1995.
- Ross, M.A., Case Studies in Integrated Modeling in the United States, in *GIS in Urban Water & Management*, Elgy, J. and Maksimovic, C. editors, Water Resources Publication, Publishers, H. Collins, Colo. 1995.
- 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.
- Vincent, M.S., Ross, M.A., and Ross, B.E., A Tidal Inlet Bridge Scour Assessment Model, Transportation Research Board, National Research Council, Transportation Research Record, No. 1420, 72nd Annual Meeting, Washington, D.C., October 1993.
- Ross, M.A., and Mehta, A.J., Fluidization of Soft Muds by Waves, Microstructure of Fine-Grained Terrigenous Marine Sediments from Mud to Shale, Frontiers in Sedimentary Geology, R. H. Bennett, W. R. Bryant, and M. H. Hulbert, editors, Springer-Verlag, 1991.
- Ross, M.A., and Mehta, A.J., On the Mechanics of Lutoclines and Fluid Mud, Journal Coastal Research, Special Issue on Physics of High Concentration Suspensions in Estuaries, Special Issue No.5, 1989.
- Ross, M.A., Mehta, A.J., On the Transport of High Concentration Suspensions, in Flocculation and Dewatering, Brij M. Moudgil and Bernard J. Scheiner, editors, Engineering Foundation, New York, N.Y., January 1988.

CONFERENCE AND SYMPOSIA PUBLICATIONS

- Ross, M. A., Rodriquez, Daniel , Jeff Vomacka, and Kenneth Trout . Soil Moisture Measurements for Determining ET and Recharge Fluxes Along a Hillslope, Proceedings Of The 2010 Annual Conference, AWRA, Philadelphia, PA, November 2010.
- Zhang, Jing, Gong, Huili, Xiaojuan, Li and Ross, Mark, Assessment of Nitrogen Loading in Miyun Reservoir Beijing Using Bayesian Decision Network, Bioinformatics and Biomedical Engineering , 2009. ICBBE 2009. 3rd International Conference, July 2009 DOI: 10.1109/ICBBE.2009.5162417
- Geurink, J., Adams, A., and Mark Ross Water Management Advantages of Comprehensive representation of Wetlands in an integrated HSPF-Modflow Hydrologic Model, ASCE EWRI annual conference, May 2009.
- Zhang, Jing,, Mark A. Ross, and Ken Trout. Ross An Innovative Approach at Calibrating

- Stage/Storage/Discharge Behavior in Hydrologic Modeling , Proceedings of World Environmental and Water Resources Conference 2008, doi , pp.1-14, May 19th- 25th, 2008, Honolulu, Hawaii.
- Clayback, K. B., Ross, M. A., and M. Scott. Investigation Of Normalized Streamflow in West Central Florida and Extrapolation to Ungaged Coastal Fringe Tributaries, Proceedings Of The 2007 Annual Conference, AWRA, November 2007.
- Shah, N., G.S. Ladde, M. Ross. 2007. A Dynamic Model for Root Water Uptake. Proceedings of the 5Th International Conference on Dynamic Systems and Applications. May 30th – June 2nd 2007, Atlanta, GA.
- Foster, L., N. Shah, M. Ross and G.S. Ladde 2007. Spectral Analysis to Define Wetland Hydroperiod. Proceedings of the 5Th International Conference on Dynamic Systems and Applications. May 30th – June 2nd 2007, Atlanta, GA.
- Geurink, Jeffrey S., Alison Adams and Mark A. Ross. Water management of Comprehensive Representation of Wetlands in an Integrated HSPF-Modflow Hydrologic Model. Proceedings of World Environmental and Water Resources Conference 2007, doi 10.1061/40927(243)305, pp. 1-22, May 14th –May 19th 2007, Tampa, Florida.
- Nachabe.M., N.Shah, and M.Ross. 2007. Evapotranspiration of Two Vegetative Covers in Shallow Water Table Environment. Proceedings of ASCE EWRI conference, May 14th –May 19th 2007, Tampa.
- Rahgozar, Manda., Nirjhar Shah and Mark Ross, Estimation of Evapotranspiration and Water Budget Using Continuous Soil Moisture an Water Table Monitoring. Proceedings of World Environmental and Water Resources Conference 2007, doi 10.1061/40927(243)335, pp. 1-23, May 14th –May 19th 2007, Tampa, Florida.
- Shah, Nirjhar, Mark Ross, and Ahmed Said,. Vadose Zone Evapotranspiration Distribution Using One-Dimensional Analysis and Conceptualization for Integrated Modeling. Proceedings of World Environmental and Water Resources Conference 2007, doi 10.1061/40927(243)336, pp. 1-10, May 14th – May 19th 2007, Tampa, Florida.
- Zhang, J., J.Geurink, and M. Ross. 2007. Modeling Vadose Zone Moisture Dynamics with the Integrated Hydrological Model (IHM). Proceedings of ASCE EWRI conference, May 14th –May 19th 2007, Tampa.
- Nilsson, Kenneth, A., Mark A. Ross, and Kenneth E. Trout, Deriving Wetland Stage-Storage Relationships from GIS Data. Proceedings of World Environmental and Water Resources Conference 2007, doi 10.1061/40927(243)326, pp. 1-16, May 14th –May 19th 2007, Tampa, Florida.
- Said, A., M.Ross, and K.Trout. Calibration of HSPF Using Active Ground Water Storage. Proceedings of World Environmental and Water Resources Conference 2007, doi 10.1061/40927(243)342, pp. 1-16, May 14th –May 19th 2007, Tampa, Florida.
- Shah, N. and M. Ross. Measurement of Seasonal Variation in Vertical Root Uptake Distribution using High Resolution Soil Moisture Data. EOS Transaction, AGU 87(52), fall meeting supplement H12B-03., 2006.
- Ross, Mark, Patrick Tara, Jeffrey Geurink, and Ahmed Said, Evapotranspiration Conceptualization in the HSPF-MODFLOW Integrated Models, presented at the 2004 Annual Meeting of the American Institute of Hydrology, Las Vegas, Nevada, October 17-20, 2004.
- Trout, Ken and Mark Ross. Estimating Evapotranspiration in Urban Environments. Presented at the NATO Advanced Study Institute, Baku, Azerbaijan, August, 2004.
- Trout, Ken and Mark Ross. Intensive Hydrologic Data Collection in a Small Watershed in West-Central Florida. Presented at the 2004 Annual Meeting of the American Institute of Hydrology, Las Vegas, Nevada, October 17-20, 2004.
- Tara, Patrick, Mark Ross, Ken Trout, Jeff Geurink. Conceptualization and Discretization for Integrated Surface Water/Groundwater Modeling. Presented at the 2004 Annual Meeting of the American Institute of Hydrology, Las Vegas, Nevada, October 17-20, 2004.
- Said, Ahmed, Nachabe, Mahmood, Ross, Mark and Vomacka, Jeff, Methodology for Estimating Specific Yield in Shallow Water Environment Using Continuous Soil Moisture Data, Proceedings of Critical Transitions in Water and Environmental Resource Management, ASCE Conference, doi 10.1061/40737(204)218, pp1-13, 2004.
- Trout, Ken, Mark Ross and Patrick Tara. 2003. Integrated hydrologic modeling for evaluating wetland design alternatives. 2003 AWRA Annual Meeting, San Diego, Calif., November 2003.
- Ross, Mark, Ken Trout, Patrick Tara. Spatial and temporal data analysis for an integrated surface and groundwater model of west-central Florida. 2003 AWRA Annual Meeting, San Diego, Calif., November

- 2003.
- Trout, Ken, Mark Ross and Patrick Tara. 2003. Calibrating the MODFLOW river package using GIS and a relational database. MODFLOW and More 2003: Understanding through Modeling. Golden, Colo., September, 2003.
- Trout Ken, Patrick Tara, Mark Ross, and Jeffrey Geurink, Integrated Surface-Groundwater Modeling of Shallow Water-Table Systems Incorporating Discrete Landforms as Computational Elements, World Water & Environmental Resources Congress 2003, ACSE Symposia, doi 10.1061/40685(2003)238, Philadelphia, Pa., June 2003.
- Trout, K., Ross M.A., and Tara, P. 2003. Integrated hydrologic modeling for evaluating wetland design alternatives. 2003 AWRA Annual Meeting, San Diego, Calif., November 2003.
- Ross, Mark, Ken Trout, Patrick Tara. Spatial and temporal data analysis for an integrated surface and groundwater model of west-central Florida. 2003 AWRA Annual Meeting, San Diego, Calif., November 2003.
- 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, Texas, August 1995.
- Ross, M.A. and Tara, P.D., Integrated Modeling for Reclamation and Regional Water Management, Peace River Planning Conference, Proc. of, Bartow, Fla., February 1995.
- Ross, M.A., Integrating GIS and Hydrologic Modeling for Evaluating Anthropogenic Activities on Aquatic Systems, Remote Sensing and GIS in Urban Waters, UDT 1994 Conference, Proceedings of the International Conference, Moscow, Russia, September 1994.
- 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, Fla., May 1994.
- Ross, M.A., Cunningham, L.L, and Maddock, T., An Integrated Hydrologic Model for Water Management on U.S. Fish and Wildlife Service Refuges, 29th Annual American Water Resources Association Conference, Tucson, Ariz., September 1993.
- 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, Calif., July 25-30, 1993.
- Halley, M.C., and Ross, M.A., A Lake Water Quality Management Model to Evaluate Watershed Stormwater Management Alternatives, American Society of Civil Engineers, 1993 National Conference on Hydraulic Engineering, Exemplary Systems for GIS Applications in Surface Water Hydrology, San Francisco, Calif., July 25-30, 1993.
- Vincent, M.S., and Ross, M.A., A Tidal Inlet Bridge Scour Assessment Model, Annual ASCE Hydraulics Conference, San Francisco, Calif., July 1993.
- Cunningham, Leslie L., and Ross, Mark A., An Integrated Hydrologic Model for Managing Water Resource Needs on United States Fish and Wildlife Service Refuges and Hatcheries, The Third National U.S. Fish and Wildlife Geographic Information Systems Workshop, La Cross, Wis., May 1992.
- Fielland, C.E., Ross, M.A., Improved HSPF Infiltration Calibration Procedure with a Linked GIS, 1991 National Conference on Hydraulic Engineering and International Symposium on Groundwater, Nashville, Tenn., July 1991.
- Ross, M.A., Tara, P.D, Schwartz, M., Groundwater Modeling with GIS, 1991 National Conference on Hydraulic Engineering and International Symposium on Groundwater, Nashville, Tenn., July 1991.
- Ross, B.E., Ross, M.A., An Engineering Analysis of Sedimentation in Tidal Inlets, 1991 National Conference on Hydraulic Engineering and International Symposium on Groundwater, Nashville, Tenn., July 1991.
- Ross, M.A., Watershed and Receiving Water Quality Modeling with a GIS, ASCE 18th National Water Resources Conference, New Orleans, La., May 1991.
- Ross, B.E., Ross, M.A., The Engineering of Mathematical Models, ASCE 18th National Water Resources Conference, New Orleans, La., May 1991.
- 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, Washington, D.C., May 1991.
- Ross, M.A., Tara, P.D., GIS Analysis for Hydrologic Modeling, 8th National Conference on Microcomputers in

- Civil Engineering, ASCE, Orlando, Fla., 1990.
- Fielland, C.E., Ross, M.A., An Input Data Preprocessor Linked to a GIS for HSPF Hydrologic Simulation, 8th National Conference on Microcomputers in Civil Engineering, Orlando, Fla., 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, Colo., 1990.
- Ross, M. A. and Ross, B.E., Development of an Integrated GIS/Hydrologic Model on a 386 Microcomputer for Reclamation Design, 7th National Conference on Microcomputers in Civil Engineering, ASCE, Orlando, Fla., November 1989.
- Powers, R.M., Davis, P.R., and Ross, M.A., Modeling the Hydrologic Impacts of Phosphate Mining and Reclamation in Central Florida, AWRA 25th Annual Conference on Water: Laws and Management, Tampa, Fla., September 1989.
- Ross, M.A., Mehta, A.J., and Lin C.P., On the Definition of Fluid Mud, ASCE Hydraulics Specialty Conference, Williamsburg, Va., August 1987.
- Ross, B.E., and Ross, M.A., Environmental Concern Related to Bridge Pier Protection, The Fourth Symposium on Coastal and Ocean Management, Coastal Zone 85, Baltimore, Md., July 1985.
- Ross, B.E., and Ross, M.A., Non-Point Pollution Abatement in Tampa Bay, Symposium on Nonpoint Pollution - Technical, Managerial, and Institutional Problems and Solutions, Marquette University, Milwaukee, Wis., April 1985.
- Ross, B.E. and Ross, M.A., Circulation Patterns in Tampa Bay, William and Mary Charter Day Symposium on Circulation in Estuaries, Virginia Institute of Marine Science, Williamsburg, Va., February 1985.

REVIEWED PUBLISHED REPORTS

- Ross, Mark A. and Trout, Kenneth, 2017, Assessment of The Integrated Northern Tampa Bay Model, No Groundwater Pumping Scenarios, Report for Tampa Bay Water, Clearwater Florida, Center for Modeling Hydrologic and Aquatic Systems, Department of Civil and Environmental Engineering, University of South Florida, Tampa, Florida, May 2017.
- Ross, Mark A. and Geurink, Jeffrey S., 2017. Integrated Hydrologic Model, Version 3, Theory and Implementation. Prepared for Tampa Bay Water, Clearwater, FL and the Southwest Florida Water Management District, Brooksville, FL.
- Ross, Mark, Stewart, Mark, Trout, Kenneth., Rains, Mark, "Hydrology of Clay Settling Areas" , FIPR Publication No. 03-150-251, Florida Industrial and Phosphate Research Institute, Bartow, Florida, June 2014.
- Trout, K. and Ross, M. (2009). Measurement of Evapotranspiration, Recharge, and Runoff in Transitional Water Table Environments. Year 3 Annual Report. Prepared for Southwest Florida Water Management District, Center for Modeling Hydrologic and Aquatic Systems, University of South Florida, Tampa Florida, December 2009.
- Trout, Ken, Jing Zhang, and Mark Ross. (2005). Certification of IHM-MODFLOW96. Prepared for the Southwest Florida Water Management District (SWFWMD), Publication no. USF-CMHAS 1041.0509.61, Center for Modeling Hydrologic and Aquatic Systems, University of South Florida, Tampa, Florida, September, 2005
- Trout, Ken and Mark Ross. (2005). Supplemental Data Collection, Micro-Scale Hydrologic Monitoring,. Prepared for the Southwest Florida Water Management District (SWFWMD), Publication no: USF-CMHAS 0353.0509.60, Center for Modeling Hydrologic and Aquatic Systems, University of South Florida, Tampa, Florida, September 2005
- Ross, Mark, Ken Trout, Swarna Pujari, Ahmed Said,., and Manda Rahgozar. (2005). Measurement of Surficial Aquifer Recharge, ET, Rainfall, Runoff and Stream-Aquifer Interaction Characteristics of the Central and Southern Region of the Southwest Florida Water Management District. Prepared for Tampa Bay Water (TBW) and Southwest Florida Water Management District, Publication no: USF-CMHAS 0353.0509.59, Center for Modeling Hydrologic and Aquatic Systems, University of South Florida, September 2005
- Ross, Mark A., Ahmed Said, Ken Trout, Jing Zhang. (2005). Hydrologic Modeling of Streamflow from

- Un-gaged Areas in the Upper Charlotte Harbor Basin – Phase 2. Prepared for the Southwest Florida Water Management District (SWFWMD), Publication no. USF-CMHAS 0390.0506.58, Center for Modeling Hydrologic and Aquatic Systems, University of South Florida, Tampa, Florida, June 2005
- McCary, John P. and Mark A. Ross. (2005) Winter Haven Chain of Lakes PLRG Study. Prepared for the Southwest Florida Water Management District (SWFWMD), Publication no. USF-CMHAS-0384.0105.57, Center for Modeling Hydrologic and Aquatic Systems, University of South Florida, Tampa, Florida, January, 2005
- Ross, Mark, Ahmed Said, Ken Trout and Jing Zhang. (2004), Hydrologic Modeling of Streamflow from Un-gaged Areas in the Upper Charlotte Harbor Basin, Prepared for the Southwest Florida Water Management District (SWFWMD), Publication no. USF-CMHAS 0390.0204.56, Center for Modeling Hydrologic and Aquatic Systems, University of South Florida, Tampa, Florida, February, 2004.
- Ross, M., Geurink, J., Tara, P., Trout, K., and Jobes, T., 2004. Integrated Hydrologic Model (IHM) Volume 1: Theory Manual, Prepared for Tampa Bay Water, Publication Number USF-CMHAS 0383.0304.58, Center for Modeling Hydrologic and Aquatic Systems. University of South Florida, Tampa Florida, March, 2004.
- Tara, Patrick, Renee Rokicki, Ken Trout and Mark Ross. (2002). Estimating Un-Gaged Flows in the Alafia River Basin, Prepared for the Southwest Florida Water Management District (SWFWMD), Publication no: USF-CMHAS 0355.0211.55, University of South Florida, Tampa, Florida, November 2002.
- Geurink, J.S., M. Nachabe, M.A. Ross, P.D. Tara, Development of Interfacial Boundary Conditions for the Southern District Groundwater Model of the Southwest Florida Water Management District, prepared Southwest Florida water Management District, Center for Modeling Hydrologic and Aquatic Systems, Department of Civil and Environmental Engineering, University of South Florida, Tampa, Fla., December 2000.
- Tara, Patrick D., Ken Trout, Jeffrey Vomacka, Mark A. Ross, and Mark T. Stewart, Hydrologic Investigation of the Phosphate Mined Upper Saddle Creek Watershed, West-Central Florida, University of South Florida, Tampa, Fla., 2000.
- Becker, May Ling and Mark A. Ross, “A Model Study Of Boca Ciega Bay, John’s Pass, And Blind Pass”, CMHAS Publication Report No. FDOT.99.01, 72 pgs., Center for Modeling Hydrologic and Aquatic Systems, Department of Civil and Environmental Engineering, University of South Florida, Tampa, Florida, July 1999.
- Ross Bernard E., Mark A. Ross and Patrick D. Tara, “USF-CMHAS Hydraulic and Water Quality Model (HYDQUAL) Documentation,” CMHAS publication No. GO.99.01, 73 pgs., Center for Modeling Hydrologic and Aquatic Systems, Department of Civil and Environmental Engineering, University of South Florida, Tampa, Florida, August, 1999.
- Ross, M.A., P.D. Tara, J.S. Geurink, and M.T. Stewart, FIPR Hydrologic Model Users Manual and Technical Documentation, Part IV, Application: SWFWMD Regional Database, University of South Florida, Tampa, Fla., 1997.
- Ross, Mark A., Patrick D. Tara, Jeffrey S. Geurink, and Mark T. Stewart, FIPR Hydrologic Model Users Manual and Technical Documentation, prepared for Florida Institute of Phosphate Research and Southwest Florida Water Management District, Center for Modeling Hydrologic and Aquatic Systems, CMHAS Water Resources Report, FIPR.97.03, University of South Florida, Tampa, Fla., July 1997.
- Geurink, Jeff S., Jodi Ann Baudean, Tara, Patrick D., Stewart, Mark T., and Ross, Mark A., A GIS-Based Multi-Scale Integrated Model for Comprehensive Water Management Evaluation, Task Four Report: Surface Water and FHM Integrated Model Development and Simulation, prepared for Southwest Florida Water Management District, CMHAS Water Resources Report, SWFWMD.97.02, Department of Civil and Environmental Engineering, University of South Florida, Tampa, Fla., October 1995.
- Geurink, Jeff S., Tara, Patrick D., Stewart, Mark T., and Ross, Mark A., A GIS-Based Multi-Scale Integrated Model for Comprehensive Water Management Evaluation, Task Three Report: Multi-Scale Groundwater Model Development and Simulation, prepared for Southwest Florida Water Management District, CMHAS Water Resources Report, SWFWMD.97.01, Department of Civil and Environmental Engineering, University of South Florida, Tampa, Fla., October 1995.
- Geurink, Jeff S., Langevin, Chris, Tara, Patrick D., Stewart, Mark T., and Ross, Mark A., A GIS-Based Multi-Scale Integrated Model for Comprehensive Water Management Evaluation, Task Two Report: Groundwater Model Development and Simulation, prepared for Southwest Florida Water Management

- District, CMHAS Water Resources Report, SWFWMD.95.02, Department of Civil and Environmental Engineering, University of South Florida, Tampa, Florida, October 1995.
- Geurink, Jeff S., Stewart, Mark T., and Ross, Mark A., A GIS-Based Multi-Scale Integrated Model for Comprehensive Water Management Evaluation, Task One Report: Data Collection and Assessment, prepared for Southwest Florida Water Management District, CMHAS Water Resources Report, SWFWMD.95.01, Department of Civil and Environmental Engineering, University of South Florida, Tampa, Fla., April 1995.
- Ross, Mark A., Geurink, Jeff S., and Tara, Patrick D., The FHM Integrated Model Application to the Quivira National Wildlife Refuge, prepared for US Fish and Wildlife Service, CMHAS Water Resources Report, USFWS.94.1, Tampa, Fla., February 1994.
- Vincent, Mark S., and Ross, Mark A., Johns Pass Bridge Scour Assessment Model, prepared for The Florida Department of Transportation, by The Center for Modeling Hydrologic and Aquatic Systems, University of South Florida, Tampa, Fla., July 1992.
- 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, Fla., April 1992.
- Ross, M.A. (co-author), Florida Institute of Phosphate Research (FIPR), FIPR Hydrologic Model: Volumes 1 and 2, Technical and Users' Documentation, 1992, 93, 94.
- Morgan, D.R., Ross, B.E., Ross, M.A., Hydraulic and Water Quality Study of the Courtney Campbell Causeway One-Way Tidal Gates, Hillsborough County, Florida, for the Florida Department of Transportation, Department of Civil Engineering, College of Engineering, University of South Florida, Tampa, Fla., April 1984.
- Ross, B.E., Ross, M.A. and Jerkins, P.D., Wasteload Allocation Study, Tampa Bay, Florida, Volumes I-VI, for Florida Department of Environmental Regulation, Department of Civil Engineering and Mechanics, College of Engineering, University of South Florida, Tampa, Fla., March 1984.
- Ross, B.E., Ross, M.A., and Jerkins, P.D., Final Report: Further Design Considerations, Pier Protection Islands, Sunshine Skyway Bridge, Florida Department of Transportation, Tampa, Fla., January 1984.
- Ross, B.E., Ross, M.A., Jerkins, P.D., Hydrodynamic Considerations for Pier Protection Islands-Sunshine Skyway Bridge, Center for Mathematical Models, College of Engineering, University of South Florida, Tampa, Fla., January 1984.
- Ross, B.E., Ross, M.A. and Jerkins, P.D., Design Conditions for Pier Protection Islands, Sunshine Skyway Bridge, Tampa, Florida, for Florida Department of Transportation, Hydrosystems Assoc., September 1983.

PROFESSIONAL

PRIVATE REPORTS/STUDIES

- Hydrosystems Inc., "Hydraulic Investigation of Belleair Causeway Bridge Replacement, Clearwater Harbor, Florida", prepared for HDR and Pinellas County, 33 pgs., Hydrosystems Inc., Tampa, Florida, March 2004.
- Hydrosystems Associates, Hydraulic Investigation of Cargill South Parcel Restoration Project, for Southwest Florida Water Management District, Florida Department of Environmental Protection, and Hillsborough County Environmental Protection Commission, October 1994.
- Hydrosystems Associates, Design Considerations for Shoreline Stabilization to Promote Emergent Vegetation on Causeways, for Florida Department of Transportation, April 1993.
- Hydrosystems Assoc., A Hydrographic Study of an Unnamed Canal in Indian Rocks Beach, Florida, for Florida Department of Environmental Regulation, August 1992.
- Hydrosystems Assoc., Water Quality Based Effluent Limitation Study, Royster Phosphate Inc., July 1991.
- Hydrosystems Assoc., Clearwater Pass Bridge Study, Volcker Engineering, October 1990.
- Hydrosystems Assoc., The Truman Annex Hydrographic Report, for Greiner Engineering, October 1989.
- Hydrosystems Assoc., Hydraulic Modeling Analysis of Proposed Marina on the Anclote River, Tarpon Springs, Fla., May 1984.
- Hydrosystems Assoc., A Hydraulic Modeling Study of the Manatee Gateway Revised Basin Configuration,

- Manatee County, Fla., May 1984.
- Hydrosystems Assoc., A Hydraulic and Water Quality Study for the Manatee Gateway Project: Evaluation of an Alternative Basin Design, Manatee County, Florida, for Conservation Consultants Inc., October 1983.
- Hydrosystems Assoc., Hydraulic Modeling Analysis of a Proposed Marina at Bayport Colony, Oldsmar, Florida, for Florida Land Design and Engineering, Tampa, Fla., September 1983.
- Hydrosystems Assoc., A Mathematical Modeling Analysis of a Proposed Breakwater at Marker 1 Marina, Dunedin, Fla., August 1983.
- Hydrosystems Assoc., Cortez Harbor, Manatee County, Florida: A Hydrologic Assessment of the Revised Tidal Basin, for Manatee Canvest Corp., Tampa, Fla., March 1983.
- Hydrosystems Assoc., Supplemental Report on Manatee Gateway: A Hydrologic Study, Tampa, Fla., December 1982.
- Hydrosystems Assoc., A Hydrologic Study for the Manatee Gateway Project, Palmetto, Florida, Tampa, Fla., May 1982.
- Hydrosystems Assoc., Cortez Harbor, Manatee County, Florida: A Hydrologic Study, for GCI Environmental Developers Inc., c/o Zoller and Najjar Engineering, Inc., Tampa, Fla., April 1982.
- Hydrosystems Assoc., Sanctuary Bay: An Artificial Tidal Pond, Palma Sola Bay, Fla., August 1981.

INVITED LECTURES/PRESENTATIONS

- Ross, M.A., New insight into the Hydrology of Clay Settling Areas and Developments with the regional Mine-wide Integrated Hydrologic Model, FL Mining and Minerals Conf, Fall 2012, Bartow, Florida.
- Ross M.A., Activities at The Center for Modeling Hydrologic and Aquatic Systems, invited presentation to the US State Department, International Delegation of Scientists.
- Ross, M.A., "Hydrology of Phosphate Waste Clay Settling Areas" 23rd Annual Regional Phosphate Conference on October 8 and 9, 2008, Lakeland Civic Center, Lakeland, Florida.
- Ross M.A., HSPF users workshop, SJRWMD, October 2006.
- Ross, M.A., Observations from the Vadose Zone, SWFWMD, June, 2003.
- Ross, M.A., Hydraulics of Coastal Inlets, Florida Department of Transportation, Tampa, Fla., September, 2003.
- Ross, M.A., Presentation of Properties of Integrated Modeling of Peace River, SWFWMD, Brooksville, Fla., October, 2003.
- Ross, M.A., Water Quality Modeling, Water Quality and Watersheds, Hillsborough County Stormwater Group, Tampa, Fla., November, 2003.
- Ross, M.A., Role of Integrated Modeling in Stormwater Management, Florida Stormwater Association, Tampa, Fla., 2003.
- Ross, M.A. and Trout, K.E., Integrated Surface-Groundwater Modeling of Shallow Water-Table Systems Incorporating Discrete Landforms as Computational Elements, ASCE World Water & Environmental Resources Congress, Philadelphia, Penn., 2003.
- Ross, M.A. and Trout, K. E., Calibrating the MODFLOW river package using GIS and a relational database, AWRA: MODFLOW and More 2003: Understanding through Modeling, 2003.
- Geurink, J.S. and Ross, M.A., Constraining fluxes and storages in an integrated hydrologic model, American Water Resources Association, Proceedings Groundwater/Surface Water Interactions, 2002 Specialty Conference, Keystone, Colo., July 2002.
- Trout, K., Ross, M., Tara, P. and Geurink, J., Managing data for regional integrated surface water/groundwater modeling, American Water Resources Association, Proceedings Groundwater/Surface Water Interactions, 2002 Specialty Conference, Keystone, Colo., July 2002.
- Tara, P., Vomacka, J., Nachabe, M.H., Ross, M.A., Geurink, J. and Basso, R., Monitoring Saturated and Unsaturated Zone Processes for Improving Integrated Modeling, American Water Resources Association, Proceedings Groundwater/Surface Water Interactions, 2002 Specialty Conference, Keystone, Colo., July 2002.
- Ross, M.A., Tara, P.D. and Geurink, J.S., Integrated Hydrologic Modeling of Regional Basins: Thirteen Years of Lessons Learned, American Water Resources Association, Proceedings Groundwater/Surface Water Interactions, 2002 Specialty Conference, Keystone, Colo., July 2002.

- Ross, M.A., Directions in Integrated Surface/Groundwater Modeling, a Discussion of Processes and Monitoring for Improved Stormwater Modeling, ACSE and Florida Stormwater Association, Stormwater Management Conference, Orlando, Fla., December 2002.
- Ross, Mark A., On the Application of GIS in Stormwater Management, 2nd International Conference on Stormwater Research and Management, Oviedo, Spain, March 1997.
- Ross, Mark A., Stormwater Management and Control: Case Studies in Florida, 2nd International Conference on Stormwater Research and Management, Oviedo, Spain, March 1997.
- Ross, Mark A., Water Quality Modeling for Stormwater Analysis, 2nd International Conference on Stormwater Research and Management, Oviedo, Spain, March 1997.
- Ross, Mark A., Surface Water Resources, Engineering Options for a Sustainable Water Supply, Florida Engineering Society Special Workshop, Tampa, Fla., February 1997.
- Ross, Mark A., Modeling for Stormwater Management, Florida Department of Environmental Protection, Workshop on Stormwater Management, St. Petersburg, Fla., February 1997.
- Ross, Mark A., District-Scale Integrated Model, American Society of Civil Engineers, West Coast Branch, Seminar on Environmental Management, Status and Trends, Tampa, Fla., March 1997.
- Ross, Mark A., Integrating GIS and Hydrologic Modeling for Evaluating Anthropogenic Activities on Aquatic Systems, Remote Sensing and GIS in Urban Waters, UDT '94 Conference, Moscow, Russia, September 1994.
- Ross, Mark A., Real-Time Bay Modeling with Tampa Bay Ports System, ASCE West Coast Branch Monthly Meeting, Tampa, Fla., April, 1994.
- Ross, Mark A., District-Wide (SWFWMD) Integrated Modeling for Water Management, Annual ASCE Water Resources Symposium, Tampa, Fla., March 1994.
- Ross, Mark A., GIS Applications in Hydrologic Modeling, Annual ASCE Water Resources Meeting, Tampa, Fla. March 1993.
- Ross, Mark A., Integrated Hydrologic Modeling, Southwest Florida Water Management District, Brooksville, Fla., November 24, 1992.
- Ross, Mark A., U.S. Fish and Wildlife Service FHM Research, U.S. Fish and Wildlife Service, Albuquerque, N.M., November 20, 1992.
- Ross, Mark A., An Overview of the USFWS Integrated Hydrologic Model, Kansas Geological Survey, Kansas City, Mo, September 1992.
- Ross, Mark A., Tidal Scour Assessment: Example John's Pass Florida, Southeastern Hydraulics Engineers' Meeting, Orlando, Fla., April 22, 1988.
- Ross, Mark A., Historical Tampa Bay Modeling Perspective, Tampa Bay National Estuary Program, St. Petersburg, Fla., February 12, 1992.
- Ross, Mark A., Tampa Bay Modeling - New Directions, American Society of Civil Engineers - Florida Section, Tampa, Fla., May 1991.
- Ross, Mark A., Multidisciplinary Water Resources Education in the Southeast - A Case Study: Florida, UCWR, August 1991.
- Ross, Mark A., Lake Water Quality Management and Modeling, Florida Association of Environmental Managers, March 1991.
- Ross, Mark A., Water Management Needs and Available Technology - USFWS, Albuquerque, N.M., January 1991.
- Ross, Mark A., Geographic Information Systems and Hydrologic Modeling, CEM Environmental Engineering Seminar Series, November 1989.
- Ross, Mark A., Presentation of the FIPR Hydrologic Model, A special Symposium and Workshop in conjunction with the AIME Fourth Annual Regional Phosphate Conference, Winter Haven, Fla., October 1989.
- Ross, Mark A., Behavior of Fine Sediment in Generating Coastal Turbidity, Beach Preservation Technology 1989, Tampa, Fla., February 1989.
- Ross, Mark A., Vertical Structure of Estuarine Fine Sediment Suspensions, U.S. Army Corps of Engineers (Waterways Experimental Station, Hydraulics Division), Vicksburg, Miss., May 1988.
- Ross, Mark A., Problems in Defining Fluid Mud and Lutocline Dynamics, Workshop on Estuarine and Cohesive Sediment Dynamics - Physics of High Concentration Suspensions and Field Measurements, Palm

Coast, Fla., April 1988.

SERVICE

SERVICE TO THE PROFESSION

Professional Organizations

American Society of Civil Engineers
American Society of Engineering Education
American Water Resources Association
Sigma Xi, USF Chapter
Chi Epsilon National Chapter
Order of The Engineer

Technical Advisory Committees

Florida Coastal Hydraulics Council, State Advisory Council on Coastal Hydraulics, sponsored by FDOT (one of five invited advisors), Present
National Estuary Program - Tampa Bay, Present
Resource Advisory Committee - Tampa Bay Water, Present
Spill Response and Preparedness Committee-United States Coast Guard, 1998-2003
Committee A2A03, Hydraulics and Hydrology, Transportation Research Board, 1993-2001

Reviewer

United States Geological Survey Water Resources Division and The National Institute of Water Resources (NIWR) competitive grant program
ASCE Journal of Irrigation and Drainage Engineering
ASCE Journal of Hydrologic Engineering
Journal of Hydrology
AWRA Journal, JAWRA (2003)
International Journal on Ecological Modelling and Systems Ecology, Elsevier (2005)
Journal of Applied Mathematics Letters Mathematical and Computer Modelling (2004)

UNIVERSITY SERVICE

Advisory Committee Member, Dr. Kiran C. Patel Center for Global Solutions, Formerly the USF Center for Globalization, current.
Contributory participant, USF Water Data Center Initiative, (2003).
Contributory participant, USF Water Institute, 199?- 2003 (since inception).
ESP Affiliated Faculty, Department of Environmental Science and Policy.
Courtesy Faculty Appointment, College of Public Health, Department of Environmental and Occupational Health, 2005-2006.

DEPARTMENT SERVICE

Tenure and promotion review
Faculty Advisor for Chi Epsilon which received the "Student Chapter of the Year Award" from the national

organization.

Director, Center for Modeling Hydrologic and Aquatic Systems (USF-CMHAS), present.

Department Representative, faculty Governance Committee, 2007-present.

Chair, Faculty Search Committee for new computational fluid mechanics/ ecological engineering position, 2005

Chair, Faculty Search Committee for three new faculty positions in Environmental Engineering 2004

Graduate Curriculum Committee, 2002-2004.

Various other short-lived departmental advisory committees.

COMMUNITY SERVICE

CORL Middle and Elementary School Science Fair Judge, 2003, 2004.

Member, Friends of the Hillsborough River.

Member, Lemon Bay Conservancy

HONORS AND REPRESENTATIONS

Paper Award: Modelling vadose zone moisture dynamics in shallow water table settings with the Integrated Hydrologic Model: field-scale testing and application' accepted, and subsequently published in the Water and Environment Journal in 2010, was selected by the journal's Editor and Editorial Board as one of the top 3 'highly commended papers' in the journal's 'Best Paper Prize 2010'. Notice of award Feb 2011

Associate Editor, ASCE J. of Hydrologic Engr., 2007-2009.

Academic Keys Who's Who in Engineering Education (WWEE)

Keynote Address, GIS Applications in Urban Water Modeling, UDT Conference, Moscow Russia, September, 1994.

Outstanding Young Investigator Award, College of Engineering, April, 1993.

Sigma Xi, The Scientific Research Society.

Chi Epsilon, The Civil Engineering Honor Society.

Tau Beta Pi, The Engineering Honor Society.

University Representative: The Universities Council on Water Resources, 1991 - Present.

Selected Participant: National Science Foundation, New Techniques in Water Resources Measurement and Analysis, Denver, Colorado, July 1989.

Recipient: American Water Resources Association, William V. Storch, Jr. Award, 1981

College Representative: Engineering Delegation to Yugoslavia, July 1980.

EXPERT TESTIMONY & PEER REVIEW (Examples)

Expertise Certification: Hydraulics, Hydrology and Water Quality Modeling

State of Florida, Division of Administrative Hearings, DOAH Case No. 94-5261; SJR FOR No. 94-1501, State of Florida, Department of Transportation vs. St. Johns River Water Management District, 1995.

IMC-Ona, Division of Administrative Hearings, DOAH Case No. Peace River/Manasota Regional Water Supply Authority, Petitioner, Case Nos.03-0791, 03-0792, 03-0804, Lee County 03-0805, 03-1610, Intervener, 04-1062 Vs. IMC Phosphates Company and Department Of Environmental Regulation, 2004.

TEACHING

COURSES TAUGHT (No. of times, as of fall 2008)

Graduate (33)

Advanced Hydrologic Modeling (4), Coastal and Estuary Modeling (6), Coastal Waves and Beach Protection (3), Coastal Waves and Structures (3), Directed Research, Dissertation Doctoral , Free Surface Flow (5), Hydrologic Modeling (8), Masters Thesis, Special Topics: GIS and Watershed Modeling (2), Urban Hydrology (4), Water Quality Modeling of Receiving Waters (1); Topics in Hydrologic modeling (1)

Undergraduate (35)

Fluid Mechanics (1), Hydraulics (3), Hydraulics Lab (5), Water Resources Engineering (20), Water Resources Capstone Design (3), Water Resources/Environmental Engineering Capstone Design (7)

Other (24)

Review Course for the Florida Professional Engineer Exam, Fluid Mechanics and Hydraulic Machines (6), Open Channel Hydraulics and Hydrology (19)

CONTINUING EDUCATION COURSES

Advanced HSPF Workshop, Panel Participant, St. Johns Water Management District, 2.0 CEUs , Sept 2006
Feeds Instructor, Florida Professional Engineers, Rules and Practice, 2.0 CEUs, Tampa, Florida. December 2004.

Watershed Modeling Workshop: EPA Storm Water Management Model SWMM4, Pinellas County Environmental Management Training Center, 2.0 CEU's, St. Petersburg, Fla., April 1996.

EPA Storm Water Management Model Version 4.3 (SWMM4) Workshop, University of Florida TREEO Center, 2.2 CEU's, Gainesville, Fla., March 1996.

ASCE Urban Storm Water Quality Management Short Course, ASCE Continuing Education, 1.2 CEU's, March 1990.

NSF/USGS Undergraduate Faculty Enhancement Workshop, Participant, SONY, 4.0 CEU's, Fall 1989.

Introduction to Computer-Aided Design and Drafting, Participant, USF, 1.5 CEU's, Spring 1989.

STUDENTS DIRECTED

Philosophy

Working with my graduate and undergraduate students is the most rewarding aspect of my profession. I strive to facilitate and contribute to their academic advancement and I expect to learn something from each one. These individuals have gone on to be successful leaders in their fields, professional colleagues, and personal friends.

Post-Doctoral (5)

- Virdi, Makhn (2013), USF Center for Modeling Hydrologic and Aquatic Systems, zj@eng.usf.edu, 2007-2008
- Zhang, Jing, from USF (2007), USF Center for Modeling Hydrologic and Aquatic Systems, zj@eng.usf.edu, 2013-2014.
- Said, Ahmed, Ph.D. from Utah State (2003), USF Center for Modeling Hydrologic and Aquatic Systems, asaid@eng.usf.edu, 2003-2006.
- DeSilva, Sampath, from USF (2002), USF Center for Modeling Hydrologic and Aquatic Systems, 2002.
- Trout, Ken (2001-2003), Ph.D. from USF Dept. of Geology (2001), USF Center for Modeling Hydrologic and Aquatic Systems, trout@eng.usf.edu, 2001-2003.

Ph.D. (15)

- Al Qatan, Nael, A Multi-Period Mixed Integer Linear Programming Model for Desalination and Electricity Co-generation in Kuwait, defended and graduated Summer 2014, nael@mail.usf.edu, (Committee: M Ross, M. Nachabe, A. Sunol (co-advisor), Michael Fountain, K. Yogi D. Goswami, Rahman Muhammad.
- Carnahan, Robert Jr., Roof runoff for regional potable water supply, expected graduation summer 2009, Robert.Carnahanjr@enviroprocess.com, defended and **awarded** Summer 2009 (Committee, co-advisor with Tom Mason (public health), D.Rundus, L. Robbins (USGS), M. Amen, R. Perez)
- Cira, Aidee, Effect of Cracking of Phosphatic Clays on the Hydrology of Clay Settling Areas (CSAs), Admitted to Candidacy Summer 2006, RA support in 2006-2008, expected graduation 2010. (Committee M Ross, M. Stewart, B. Lewelling (USGS), M. Rahman, G. Mullins)
- Geurink, Jeffrey Scott, Concepts of data management for multi-scale integrated hydrologic modeling, CEE, USF, Tampa Bay Water, Clearwater, Florida, Geurink@tampabaywater.org, defended and awarded 1999. (Committee
- Masek, Caroline, Topic to be determined, HDR Associates, Orlando, FL, carol9h@hotmail.com, CEE, USF, inactive. (Committee to be determined)
- Moreno, Maximo, Eutrophication Trend of Lakes in the Tampa Bay Watershed and the Role of Submerged Aquatic Vegetation in Buffering Lake Water Phosphorus Concentration, co-major advisor with Dr. Noreen Poor, admitted to candidacy Fall 2005, College of Public Health, mmoreno@health.usf.edu, CEE, USF, defended and awarded Summer 2008. (Committee N. Poor, Connie Mizak, Amy Stuart)
- Mueses, Auristela, Non-dimensional streamflow rating, Univ. of South Florida CMHAS, CEE, USF, admitted to candidacy Spring 2006, amuses@eng.usf.edu, defended and awarded Fall 2006. (Committee: J. Cunningham, J. Geurink; W. Lewelling; M. Rahman, A. Said, M. Stewart)
- Nilsson, Kenneth, Wetland storage characteristics for hydroperiod analysis, CEE, Univ. of South Florida CMHAS, knilsson@eng.usf.edu, defended and **awarded** Spring 2009. (Committee M. Stewart, M. Nachabe, M Rains, R. Perez)
- Perry, Robert Gerald, Regional assessment of land use loading of unconfined aquifers, Southwest Florida Water Management District (SWFWMD), Brooksville, Florida, rperry@swfwmd.fl.gov, CEE, USF, awarded December 1995. (Committee: M Ross co-advisor B. Ross, R. Carnahan, M. Stewart, S. Kranc, L. Weaver)
- Rahgozar, Mandana, Evapotranspiration measurement with continuous soil moisture monitoring, Pinellas County School Board. RahgozarM@pcsb.org, admitted to candidacy Spring 2005, CEE, USF, awarded Spring 2007, (Committee: M. Ross, M. Stewart, M. Nachabe, D. Sumner, E. Mierzejewski).
- Shah, Nirjhar, Understanding vegetation dynamics using eco-hydrology, in water controlled environments, Univ. of South Florida CMHAS, nshah5@eng.usf.edu, co-advisor with Dr. Mahmood Nachabe, CEE, USF, CEE, USF, Defended and awarded Fall 2007. (Committee: M. Ross and co-advisor M. Nachabe, M. Stewart, M. Rains, R. Perez)
- Vincent, Mark S., Development, implementation and analysis of the Tampa Bay coastal prediction system, NOAA, Reston, VA, CEE, USF, **awarded** May 2002. (Committee M Ross and c-advisor M. Luther, B. Galperin, S. Kranc, A. Blumberg, M Rahman)
- Virdi, Makhn, Time scale and capture variability of recharge, University of South Florida CMHAS, mvirdi@mail.usf.edu, CEE, USF, RA support, defended and awarded 2013. (Committee Mross, M Stewart,

- T. Lee (USGS), M. Nachabe, K. Trout)
 Vomacka, Jeffrey, Soil storage considerations for generation of runoff, Water Resources Associates Inc., jvomacka@eng.usf.edu, plan 2009. (Committee M. Stewart, A. Kaw, M. Nachabe, J. Geurink)
 Zhang, Jing, Two-layer vadose zone model for surface and groundwater interactions, Univ. of South Florida CMHAS, zj@eng.usf.edu, admitted to candidacy Spring 2005, CEE, USF, defended and **awarded** spring 2007. (Committee: M. Stewart, M. Nachabe, J. Geurink, A. Said)

MSE/MSCE/MS (Thesis option, 26)

- Becker, May Ling, Interaction of tidal inlets on a micro-tidal coast: a study of Boca Ceiga Bay, Johns Pass , and Blind Pass, Completing Ph.D., North Carolina State University, beckerm@email.unc.edu, co-advisor with Dr. Vacher, Department of Geology, USF, 1999.
 Calderon Luis G., Integrated surface-groundwater model refinement through numerical discretization techniques, PBSJ, Tampa, Florida, lscalder@mail.usf.edu, CEE, USF, 2007.
 Baudean, Jodi Ann, Factors that affect calibration of a comprehensive surface water model of West-Central Florida, EAS, jodi@ebsory.com, CEE, USF, 1996.
 Boyd, Monica Jean Hendrickson, Tidal bridge scour, whereabouts unknown, last in Tampa, Florida, CEE, USF, 1994.
 Burdge, Jeffrey Garrett, Evaluation of a GIS-based resource management model for US Fish and Wildlife Service applications, Deceased, CEE, USF, 1993.
 Chahine, Kamal N., Integrated hydrologic model for surface water/groundwater simulation, whereabouts unknown, last in New York, NY, CEE, USF, 1994.
 Cimino, Joseph A. (Anthony), Empirical mass balance calibration of analytical hydrograph separation techniques using electrical conductivity, Water Resources Associates Inc., Tampa, FL, jcimino@wraconsultants.com, CEE, USF, 2003.
 Clayback, Kimberly, Analysis of ungaged streamflow fraction in the Southeast US, University of South Florida, Clayback@mail.usf.edu, CEE, USF, 2006.
 Foster, Lisa, Groundwater hydroperiods in Karst Wetlands, Univ. of South Florida, lisa.foster@sdhc.k12.fl.us, CEE, USF, Spring 2007.
 Goel, Vinay, unknown topic, Univ. of South Florida, vinay@tampabay.rr.com, CEE, USF, 2006.
 Geurink, Jeffrey S., A comparison of integrated hydrologic modeling to traditional surface water or groundwater only models, Tampa Bay Water, Clearwater, Florida, Geurink@tampabaywater.org, CEE, USF, 1994.
 Halley, Mary C., A water quality management model for Florida Lakes, Ogden Environmental, Knoxville, TN, CEE, USF, 1992.
 Hernandez, Tatiana X, Rainfall-runoff modeling in humid shallow water table environments, engineering consultant, Orlando, FL, co-advisor with Dr. Nachabe, CEE, USF, 2001.
 Krock, Jennifer, Hydrodynamic and sediment transport modeling of a jettied inlet, Johns Pass, Florida, Univ. of South Florida, jkrock@eng.usf.edu, co-advisor with Dr. Ping Wang, CEE, USF, 2005.
 Masek, Caroline, Adapting the SCS method for estimating runoff in shallow water table environments, HDR Associates Inc., Tampa, Florida, carol9h@hotmail.com, committee member but co-advised student with M. Nachabe CEE, USF, 2003.
 McCary, John, Incorporating surficial aquifer ground-water fluxes into surface-water resource management studies, Univ. of South Florida, mccary@mail.usf.edu, CEE, USF, 2005.
 McKinney, Matthew G., Analysis of Surficial aquifer recharge wells using an integrated surface and groundwater model: Hillsborough County, Florida, Unknown, CEE, USF, 1998.
 Oyarbazal, Julio, Calibration and performance of capacitance type soil moisture sensors on selected Florida soils, Univ. of South Florida, CEE, USF, 2005.
 Pujari, Swarna, A framework to develop an interactive web database for delivery of water resources field data over the internet, Univ. of South Florida, spujari2@mail.usf.edu, CEE, USF, 2005.
 Rokicki (Murch), Renee, Evaluation and performance of rainfall Disaggregation methods for West-Central Florida, Florida Department of Transportation, co-advisor with Dr. Nachabe, CEE, USF, 2002.
 Rodriquez, Daniel, Soil Moisture Investigation of ET in a Deep Water Table Environment”, expected

graduation Fall 2009.

Scott, Michael, GIS investigation of streamflow/rainfall fractionation, Univ. of South Florida, mhscott@retentionpond.com, CEE, USF, awarded Spring 2007.

Stephanakou, Georgia, Investigation of artificial recharge in westcoast Florida wellfields. CEE, USF, 19 .

Taylor, Marsha, Investigation of stream/aquifer response in two Florida watersheds, Saint Johns Water Management District, Palatka, Florida, marsha_taylor@district.sjrwmd.state.fl.us, CEE, USF, 1997.

Tara, Patrick David, A geographic information system interface for hydrologic modeling, Intera Inc., Tampa, FL ptara@intera.com, CEE, USF, 1991.

Vincent, Mark S., A numerical scour deposition model for tidal inlets, NOAA, Reston, VA., CEE, USF, 1992.

Undergraduate Honors Theses/Senior Projects (7)

Baudean, Jodi Ann, Design of the proper calibration framework of integrated hydrologic models for phosphate mine site reclamation, Department of Civil and Environmental Engineering, 1994.

Hope, III, Vernon D., Design of a graphics display and analysis program for hydrodynamic and water quality modeling, Department of Civil and Environmental Engineering, 1991.

Jacobsen, James, Design of a procedure to evaluate wetland uses for stormwater quality control, Department of Civil and Environmental Engineering, 1992.

Odom, Larry, Design of a modified double-ring infiltrometer test, Department of Civil and Environmental Engineering, 1991.

Scott, Eric, Design of a stormwater loading analysis of the Lake Tarpon watershed using a geographical information system, Department of Civil and Environmental Engineering, 1991.

Sumner, Dean, Wastewater treatment effluent disposal modifications for Sumter Correctional Institution, Bushnell, Florida, Department of Civil and Environmental Engineering, 1990.

Walker, Russell, Modeling the Lake Tarpon discharge structure for hydraulic and water quality management, Department of Civil and Environmental Engineering, 1993.

Other

In addition, Dr. Ross has served on many more Doctoral & Masters student advisory committees within the CEE Department, College of Engineering, College of Marine Science, College of Medicine and College of Arts and Science.