

Mahmood Nachabe, P.E., Fellow ASCE
Professor, Department of Civil and Environmental Engineering
University of South Florida

Degrees:

PhD in Hydrological Sciences, Civil Engineering, Colorado State University, Fort Collins, CO (1993)
Master of Engineering, Auburn University, Auburn, AL (1988)
Bachelor of Civil Engineering, American University of Beirut (1987)

Years of Service at USF

05/2010-Date Professor, Department of Civil and Environmental Engineering
2003-2010 Associate Professor, Department of Civil and Environmental Engineering
1998-2003 Assistant Professor, Department of Civil and Environmental Engineering

Other-Related Experience

2005-2006 Fulbright Fellow (sabbatical from USF)
2002 NASA Fellow, Goddard Space Flight Center, MD
1995-1998 Research Hydrologist, U.S. Department of Agriculture, Agricultural Research Service, Fort Collins, CO
1994-1995 Visiting Assistant Professor, Asian Institute of Technology, Bangkok, Thailand
1993-1994 Postdoctoral Fellow, University of Colorado at Boulder, Boulder, CO

Honors and Awards

Fellow of the American Society of Civil Engineers (2007)
Outstanding Faculty Award, American Society of Civil Engineers, USF Chapter (2007)
Fulbright Fellowship Award (2005)
ASEE National Faculty Fellowship Award (Summer 2002)
Faculty of the Year Award, Professional Engineering Societies of Tampa Bay Area (2002)
Outstanding Undergraduate Teaching Award, University of South Florida (2001)
Outstanding Faculty Award, American Society of Civil Engineers, USF Chapter (2001)
USDA National Research Initiative Award, Competitive Grant Program in Watershed Processes and Water Resources (2001)
Research and Creative Scholarship Award, University of South Florida (1999/2000)
Phi Kappa Phi National Honor Society (1988)

Consulting Experience

2005 U.S. Geological Survey, Tampa Office

Professional Engineering License Registration

Florida
Colorado

5 Publications Relevant to This Project

1. Nachabe, M. H. and D. Sabeh 2015. Infiltration in Shallow Water Table Environments: Simple Two-Phase Model Accounting for Air Compression and Counterflow. *Journal of Hydrologic Engineering*, 10.1061/(ASCE)HE.1943-5584.0001176
2. Nachabe, M. H., V. Martysevich, and J. Su 2012. Storm Water Runoff and Deep Groundwater Drainage in Two Urban Closed Basins. *Journal of Hydrologic Engineering* 17(7), 823-828.
3. Paynter, S., M. Nachabe, and G. Yanev 2011. Statistical changes of Lake Stages in Two Rapidly Urbanizing Watersheds. *Water Resources Management*, 25:21-39.
4. Nachabe, M. H. 2006. Spatially Distributed Versus Lumped Parameter Models: A proposed Equivalence between the TOPMODEL and SCS Curve Number Method. *Journal of the American Water Resources Association*, 42(1):225-236.

5. Nachabe, M. H., N. Shah, M. Ross, and J. Vomacka 2005 . Evapotranspiration of Two Vegetation Covers in Humid Shallow Water Table Environment. *Soil Science Society of America Journal*, 69:492-499

5 Other Publications

6. Xie, X., B. Zeng, and M. Nachabe 2013. Sampling Design for Water Distribution Networks. *Urban Water Journal*, Vol. 12, No. 3
7. Xie, X., M. Nachabe, and B. Zeng. 2015. Optimal Scheduling of Automatic Flushing Devices in Water Distribution System. *Journal of Water Resources Planning and Management*, 10.1061/(ASCE)WR.1943-5452.0000477 , 04014081
8. Paynter, S., and M. Nachabe 2011 Use of Generalized Extreme Value Covariates to Improve Estimation of Trends and Return Frequencies for Lake Levels, *Journal of Hydroinformatics* , 13(1), 13-24.
9. De Silva, M., M. Nachabe, J. Simunek, and B. Carnahan 2008 . Simulating Variable Root Water Uptake from a Heterogeneous Vegetative Cover, *Journal of Irrigation and Drainage Engineering*, vol. 134 No. 2 pp. 167-174.
10. Shah, N. M. Nachabe, and M. Ross 2007 . Extinction Depth and Evapotranspiration from Ground Water under Selected Land Covers, *Ground Water Journal*, 45 (3): 329-338.

Scientific and Professional Societies of Which a Member

American Society of Civil Engineers
American Society of Engineering Education
American Geophysical Union
Soil Science Society of America

Institutional and Professional Service in the Last 5 Years

a. Teaching

Fluid Mechanics
Hydraulics
Water Resources Engineering
Urban Hydrology
Flow in Porous Media
Groundwater Hydraulics

b. Principal University Committees

Chair, Faculty Governance Committee 2014 -15
Graduate Program Coordinator 2006-2010
Member, Curriculum Committee, I-05 to Date

c. Selected Synergistic Activities

Panelist, Council for the International Exchange of Scholars 2007 to present
Panelist, National Science Foundation. 2010
Member, Vadose Zone Hydrology Technical Committee, American Geophysical Union 2002-2010
Organizing Committee and Track Chair of the ASCE, EWRI World Environmental and Water Resources Congress 2007, May 2007