

DR. WENRUI HUANG, PROFESSOR

Dept. of Civil & Environmental Engineering
FAMU-FSU College of Engineering
Florida State University
2525 Pottsdamer Street, Tallahassee, FL 32310-6046
Phone: (850) 410-6199, E-mail: whuang@eng.fsu.edu

PROFESSIONAL PREPARATION

- Ph.D.** Ocean Engineering, University of Rhode Island, 1993.
- M.S.** Coastal Engineering, Hohai University, China, 1986.
- B.Sc.** Water Resources Engineering, Hohai University, China, 1981.

Professional License: Professional Engineer in Civil and Sanitary Engineering, State of Florida

APPOINTMENTS

8/2009- present Professor, Civil and Environmental Eng., Florida State University
2003 – 7/2009 Associate Professor, Civil and Environmental Eng., Florida State Univ.
1997 – 2003 Assistant Professor, Civil and Environmental Eng. , Florida State Univ.
1996 - 1997 Senior Hydrologist, Northwest Florida Water Management District, Florida
1993 - 1996 Assistant Hydrologist, Northwest Florida Water Management District, Florida
1986-1988 Coastal Engineer, 4th Harbor construction Corp, China

Research Areas:

- Hydrodynamic and water quality modeling for coastal and estuarine waters.
- Integrated hydrodynamic and ecological modeling for estuarine ecosystem studies.
- Coastal hazards impact modeling and assessment.

SYNERGISTIC ACTIVITIES

- Associate Editor: *Journal of Coastal Research* (2008-)
- Associate Editor: *Journal of Engineering Mechanics* (2010-2015)
- Associate Editor: *Frontiers of Structural and Civil Engineering* (2013-)
- Member: ASCE EMI Fluid Dynamics Committee
- Guest Editor: Journal of Coastal Research Special Issue #68 (2014): *Climate Change Impacts on Surface Water Systems*
- Guest Editor: Journal of Coastal Research Special Issue #52 (2008): *Surface Water Modeling*.
- Editor for a book: *Coastal Hazards*, ASCE publication 2013.

COLLABORATORS

COLLABORATORS (ONLY FACULTY AT US INSTITUTIONS, LAST FOUR YEARS)

Elijah Johnson, Clayton Clark, Xingjian Chen, Xiaojun Yang, Scott Hagen, Dingbao Wang, Linda Walker, John Weishampel, Ann Lazar, John Christensen, Megan Lamb, Michael Abazinge, Gideon Nnaji, Magrette Gitau

THESIS ADVISOR AND POSTGRADUATE SCHOLAR SPONSOR

Mater students: Catherine Murray, Q. Yang, Bing Xu, Tyler Strickland, Chi-wen Chang.

Doctor students graduated: Hong Xiao, Xiaohai Liu, Sudong Xu.

Post Doc and visiting scholar: Cunhong Pan, Zhuxiao Zhu, Hongqing Wang, Shuisen Chen,

Ph.D. Advisor: Malcom Spaulding

PUBLICATIONS

Five journal publications in hydrological modeling

Teng F., Wenrui Huang, Isaac Ginnis, 2017. Hydrological modeling of storm runoff and snowmelt in Taunton River Basin by applications of HEC-HMS and PRMS models, *Natural Hazards*. Vol. 91, Issue 1, pp 179–199.

Teng F., Wenrui Huang, Yi Cai, Chunmiao Zheng, Songbing Zou. 2017. Application of PRMS hydrological model to simulate rainfall runoff in Zamaske-Yingluoxia Subbasin of the Heihe River Basin. *Water* 2017, 9(10), 769; doi:10.3390/w9100769

Fei Teng, Wenrui Huang, Isaac Ginnis, Yi Cai, 2016. Characteristics of River Flood and Storm Surge Interactions in a Tidal River in Rhode Island, USA. *Proceeding of IUTAM Symposium on Storm Surge Modelling*, Oct, Shanghai, China

Chen, Chiwen, Wenrui Huang, 2013. Hydrological modeling of typhoon-induced extreme storm runoffs from Shihmen watershed to reservoir, Taiwan. *Natural Hazards*, *Natural Hazards*. Volume 67, Issue 2, pp 747-761.

Cai, Y., Wenrui Huang, Fei Teng, Beibei Wang, Ke Ni, Chunmiao Zheng, 2016. Spatial variations of river-groundwater interactions from upstream mountain to midstream oasis and downstream desert in Heihe River basin, China. *Hydrology Research*. Apr 2016, 47 (2) 501-520.

Five publications in surface-groundwater interactions and hydrodynamic modeling,

Zhu, F.; Huang*, W.; Cai, Y.; Teng, F.; Wang, B., and Zhou, Q., 2014. Development of a river hydrodynamic model for studying surface-ground water interactions affected by climate change in Heihe River, China. *Journal of Coastal Research*, Special Issue, No. 68, pp. 129-135.

Huang, W., Cai, Y., Chao, Y. N., Teng, F., Xu, S. D., and Wang, B. B., 2015. Neural Network Modelling of Flow in Yinluoxia Station Based on Flow in Zhamashike Station in Heihe River, China. *Advances in Intelligent Systems Research*, 123:206-209.

Cai, Y.; Huang*, W.; Teng F.; Wang B.; Ni, K., and Zheng C., 2015. Spatial variation of river-groundwater interactions from upstream mountain to midstream oasis and downstream desert in Heihe River basin, China. *Hydrology Research*, 47(2): 501-520.

Cai, Y.; Huang*, W.; Teng, F., and Gu, S., 2014. Effects of changing climate on glacier shrinkage and river flow in the Upper Heihe River Basin, China. *Journal of Coastal Research*, Special Issue, No. 68, pp. 121-128.

Huang, W., X. Liu, X. Chen, 2008. Numerical Modeling of Hydrodynamics and Salinity Transport In Little Manatee River. *Journal of Coastal Research Special Issue* 52, pg 13-24.