DR. WENRUI HUANG, PROFESSOR

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PROFESSIONAL PREPARATION

- Ph.D. Ocean Engineering/Environmental Modeling, 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 |
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| 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, 4 th Harbor construction Corp, China |

Summary of Qualifications:

- Over 20 year of experience in coastal ocean and estuarine model developments and applications.
- Published 77 journal papers, including coastal modeling and remote sensing.
- Sever as Co-editor, Associate Editors for several international journals
- Have conducted research projects funded by NOAA, EPA, FDEP, USACE, etc.

Synergistic Activities

- Associate Editor: Journal of Coastal Research.
- Associate Editor: *Journal of Engineering Mechanics* (2010-2015)
- Associate Editor: Frontiers of Structural and Civil Engineering
- 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.
- Guest Editor: Journal of Computers and Fluids Special Issue (2008): Advances in Computational Fluid Dynamics.
- 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, Isaac Ginis, Ann Lazar, John Christensen, Megan Lamb, Michael Abazinge, Paul Montagna, 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, URI.

Publications

Five publications in coastal ocean and estuarine modeling

- Huang, W. Scott Hagen, Peter Bacopoulos, Dingbao Wang, 2015. Hydrodynamic modeling and analysis of sea-level rise impacts on salinity for oyster growth in Apalachicola Bay, Florida. Estuarine, Coastal and Shelf Science, Volume 156, 5 April 2015, Pages 7–18.
- Kai Yin, Sudong Xu, Wenrui Huang, 1016. Modeling sediment concentration and transport induced by storm surge in Hengmen Eastern Access Channel. Natural Hazards, May 2016, Volume 82, Issue 1, pp 617-642 (using Delf3D)
- Xu, S., W. Huang, 2014. Integrating Monte Carlo and hydrodynamic models for estimating extreme water levels by storm-surge in Colombo, Sri Lanka. Natural Hazards, March 2014, Volume 71, Issue 1, pp 703-721.
- Liu, Xiaohai, Wenrui Huang, 2009. Modeling sediment resuspension and transport induced by storm wind in Apalachicola Bay, USA. Journal of Environmental Modelling & Software, Volume 24, Issue 11, pages 1302-1313. (using EFDC)
- Huang, W., Y. He, S. Liu, 2013. Numerical modeling of hurricane-induced extreme wave heights in Pensacola Bay, Coastal Hazards, ASCE, pg 69-79. (using SWAN)

Five other significant publications in remote sensing

- Huang W, Debraj Mukherjee, Shuisen Chen, 2011. Assessment of Hurricane Ivan impact on chlorophyll-a in Pensacola Bay by MODIS 250 m remote sensing. Marine Pollution Bulletin, Volume 62, Issue 3, March 2011, Pages 490-498.
- Chen, S., W. Huang, 2011, An enhanced MODIS remote sensing model for detecting sediment plume induced by rain storm, Journal of Marine Environmental Research, Volume 72, Issue 5, December 2011, Pages 265–272.
- Chen, Shuisen, Wenrui Huang, Hongqing Wang, D. Li, 2009. Remote sensing of sediment re-suspension during Hurricane Frances in Apalachicola Bay, USA. Remote Sensing of Environment, Volume 113, Issue 12, pages 2670-2681.
- Chen, S., W. Huang, 2011, An enhanced MODIS remote sensing model for detecting sediment plume induced by rain storm, Journal of Marine Environmental Research, Volume 72, Issue 5, December 2011, Pages 265–272.
- Wang, Hongqing, Christine M. Hladik, Wenrui Huang, Katherine Milla, Lee Edmiston, Mark A. Harwell, and John F. Schalles, 2010. Detecting and mapping water quality indicators in Apalachicola Bay, Florida using MODIS Terra 250 m imagery. International Journal of Remote Sensing, Vol 31, No. 2, Jan. 2010, 439-453.