

**Biographical Sketch: Dr. Xing Fang, P.E., D.WRE, F.EWRI, F.ASCE**

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**a. Professional Preparation**

Tsinghua University	Hydraulic Engineering	B.S., 1987
University of Minnesota	Civil Engineering	M.S., 1991
University of Minnesota	Civil Engineering	Ph.D., 1994
University of Minnesota	Water quality modeling	1994–1995

**b. Appointments**

- 8/2013-present Professor (8/2013–9/2014), Arthur H. Feagin Professor (10/1/2014–), Department of Civil Engineering, Auburn University, Auburn, AL, U.S.A.
- 8/2007-8/2013 Associate Professor, Department of Civil Engineering, Auburn University, Auburn, AL, U.S.A.
- 9/2006-8/2007 Professor, Department of Civil Engineering, Lamar University, Beaumont, TX, U.S.A., serves as an adjunct professor and graduate faculty member at Lamar University from August of 2007 to present.
- 9/2000-8/2006 Associate Professor, Department of Civil Engineering, Lamar University, Beaumont, TX, U.S.A.
- 9/1995-8/2000 Assistant Professor, Department of Civil Engineering, Lamar University, Beaumont, TX, U.S.A.
- 6/1996-8/1996 Visiting Research Assistant Professor, St. Anthony Falls Laboratory, Dept. of Civil Engineering, University of Minnesota, Minneapolis, MN, U.S.A.
- 5/1994-8/1995 Postdoctoral Research Associate, St. Anthony Falls Laboratory, Department of Civil Engineering, University of Minnesota, Minneapolis, MN, U.S.A.
- 7/1987-9/1989 Research Hydraulic Engineer, Department of Hydraulic Engineering, Tsinghua University, Beijing, P. R. China.

**c. Publications** (4 Book Chapters, 69 Referred Journal Articles, 57 Technical Reports, 53 Conference Proceeding Papers).

1. Five recent publications mostly related to the proposal are:

- Fang, Xing, Liping Jiang, P. Jacobson, H. G. Stefan, Shoeb R. Alam, and D. Pereira, 2012. “Identifying Cisco Refuge Lakes in Minnesota under Future Climate Scenarios.” The Transactions of the American Fisheries Society, 141:1608-1621, DOI:10.1080/00028487.2012.713888
- Jiang, Liping, X. Fang, H. G. Stefan, P. Jacobson, and D. Pereira, 2012. “Oxythermal Habitat Parameters and Identifying Cisco Refuge Lakes in Minnesota under Future Climate Scenarios using Variable Benchmark Periods.” Ecological Modeling, 232(2012):14-27.
- Fang, X. and H. G. Stefan, 2009. “Simulations of Climate Effects on Water Temperature, Dissolved Oxygen, Ice and Snow Covers in Lakes of the Contiguous U.S. under Past and Future Climate Scenarios”. Limnology and Oceanography, 54(6): 2359-2370
- Fang X., Shrestha, R., Gorger, A. W., Lin, J., and Jao, M., 2007. “Simulation of Impacts of Streamflow and Climate Conditions on Amistad Reservoir,” *Journal of Contemporary*

*Water Research and Education*. Published by the Universities Council On Water Resources (UCOWR), U.S.A., 137 (September, 2007):14-20.

- Fang, X., Stefan H. G., Eaton, J. G., McCormick, J. H., and Alam S. R., 2004. "Simulation Thermal Habitat in Small Lakes Under Different Climate Scenarios, Part 1. Cool-water Fish in the Contiguous U.S.," *Ecological Modelling*, 172(1):13-37.

2. Recent publications relevant to the proposal are:

- Suresh Sharma, Puneet Srivastava, Xing Fang, Latif Kalin, 2014. "Hydrologic Simulation Approach for El Niño Southern Oscillation (ENSO)-Affected Watershed with Limited Rain Gauge Stations". *Hydrological Sciences Journal*, DOI: 10.1080/02626667.2014.952640
- Devkota, Janesh, Xing Fang, and Victoria Z. Fang, 2013. "Response Characteristics of the Perdido and Wolf Bay System to Inflows and Sea Level Rise" *British Journal of Environment & Climate Change*, 3(2):229-256.
- Suresh Sharma, Puneet Srivastava, Xing Fang, and Latif Kalin, 2012. "Incorporating Climate Variability for Point Source Discharge Permitting in a Complex River System". *Transactions of the American Society of Agricultural and Biological Engineers (ASABE)*, 55(6):2213-2228.

#### **d. Synergistic work**

Fang was co-investigator for U.S. EPA STAR grant "Alterations of Water Availability, Water Quality and Fish Habitats in Cold Regions by Climate Change" from 1995 to 1998 under research category of "Regional Hydrologic Vulnerability to Global Climate Change". Under the grant, the team had 45 publications including 22 journal papers, and Fang was author or co-author for 19 of these 45 publications. Fang was Associate Editors in surface hydrology and water quality modeling for *Journal of American Water Resources Association*. Fang is the Diplomat, Water Resources Engineer (D.WRE); credentials from the American Academy of Water Resources Engineer. Fang has more than 25 years of experience in research and teaching in water resources engineering (hydrological and hydraulic analysis and modeling) and environmental hydrodynamics (lake/reservoir/estuary modeling). Fang was principle and co-investigator for many research projects funded by, such as U.S. Environmental Protection Agency, U.S. Department of Agriculture, U.S. Army Corps of Engineers, Texas and Alabama Department of Transportation, Texas Water Development Board, Minnesota Department of Natural Resources, Southern Company, etc.

#### **e. Collaborators & Other Affiliations**

(i) **Collaborators:** T. Prabhakar Clement, Hanqin Tian, Ming-Kuo Lee, Wesley Zech, Jose Vasconcelos (Auburn University), Heinz G. Stefan (University of Minnesota), Nin-Bin Chang (University of Central Florida)

(ii) **Graduate and Postdoctoral Advisors:** Heinz G. Stefan (University of Minnesota)

(iii) **Thesis Advisor and Postgraduate-School Sponsor:** Manoj KC, Janesh Devkota, Suresh Sharma (Youngtown University), Nirajan Dhakal (University of Massachusetts Amherst), Golbahar Mirhosseini, Dehui Su, Shoudong Jiang, Pratistha Pradhan, Jinwei Qiu, Alam Reaz Shoeb, Liping Jiang, Jasmeet Singh Lamba, Sushban Shrestha, Christopher Logan, Thomas Weems, Nitin K. Nagrani, Agnihtri Nilesh, Gharty Chhetri OM, Khanal Prakash, Malla Ranjit, Gajendra Shrestha, Rajendra Shrestha.