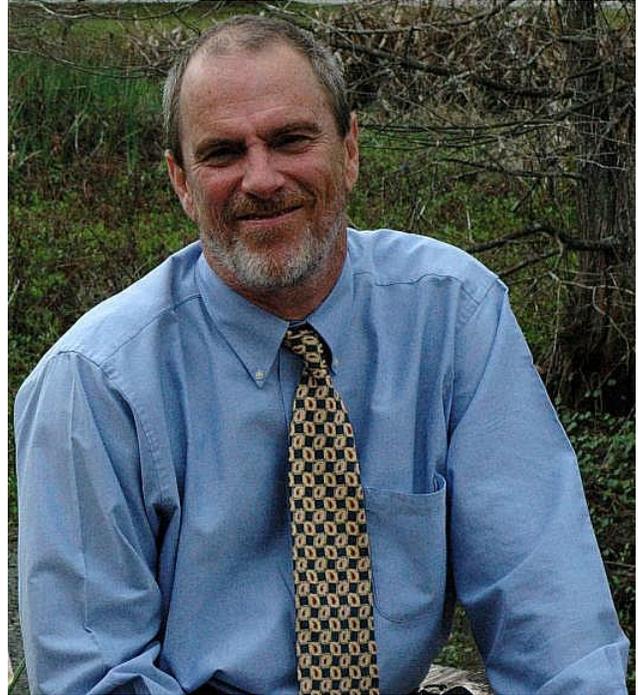


## **D. Phil Turnipseed, P.E., D.WRE, M.ASCE**

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### **Fields of Principal Competence:**

1. Surface Water Hydrologic Monitoring and Analysis
2. Open Channel Hydraulics
3. Fluvial Geomorphology
4. Remote Sensing Technology

### **Awards and Honors:**

Department of the Interior Superior Service Award (2006)  
USGS Star Awards (1996-2014)  
USGS WRD Unit Award for Excellence (1993, 1995)

### **Professional Assignments And Committees:**

At-Large Member, American Academy of Water Resources Engineers Board of Trustees (2014 to present);  
American Society of Civil Engineers Coasts, Oceans, Ports, Rivers, Institute Navigation Subcommittee (2011 to present);  
Managing Board Member, Lower Mississippi Valley Joint Venture (2011 to 2014);  
Member, Science Coordination Team, Gulf Coast Ecosystem Restoration Task Force (2011 to 2012);  
Managing Board Member, Gulf Coast Joint Venture (2010 to 2014);  
Member, National Committee on Levee Safety (2007 to present);  
Member, American Society of Civil Engineers Task Committee on Bridge Scour (May 2005 to present);  
Member, Interagency Performance Evaluation Task Force (IPET) (October 2005 to 2008);  
Member, Interagency FEMA Levee Policy Review Task Committee (January 2006 to 2007);  
Delegate, ISO Subcommittee 5 on Instruments, Equipment, and Data Management, Technical Committee 113 on Hydrometry (May 2005 to present);  
Professional Engineer, Mississippi Board of Registration for Engineers and Land Surveyors, (January 1996 to present);  
Professional Engineer, Louisiana Professional Engineering and Land Surveying Board (May 2013 to present);

## USGS Career Experience:

### A. 2015 TO PRESENT

1. LOCATION -- USGS, Office of Surface Water
2. POSITION -- **Scientist Emeritus, GS-15**
3. SUPERVISOR -- Robert R. Mason, Jr.
4. REMARKS -- Hydrologist

### B. 2014 TO 2015

1. LOCATION -- USGS, Southeast Region
2. POSITION -- **Senior Science Advisor for Water Programs, GS-15**
3. SUPERVISOR -- Jess Weaver
4. REMARKS -- Hydrologist

### C. 2010 TO 2014

1. LOCATION -- USGS, National Wetlands Research Center
2. POSITION -- **Director, GS-15**
3. SUPERVISOR -- Max Ethridge
4. REMARKS -- Supervisory Physical Scientist

### D. 2004 TO 2010

1. LOCATION -- USGS, Office of Surface Water, Reston, Virginia
2. POSITION -- **Hydrologist, GS-14**
3. SUPERVISOR -- Stephen F. Blanchard
4. REMARKS -- Staff Hydrologist

### E. 2009

1. LOCATION -- USGS, National Wetlands Research Center, Lafayette, LA
2. POSITION -- **Acting Assistant Director, GS-14**
3. SUPERVISOR -- Gregory J. Smith
4. REMARKS -- Supervisory Biologist

### F. 2003 TO 2004

1. LOCATION -- U.S. Geological Survey, WRD, Austin, Texas
2. POSITION -- **Surface Water Specialist, GS-13**
3. SUPERVISOR -- Robert Joseph
4. REMARKS -- Surface Water Specialist

### G. 2003 TO 2004

1. LOCATION -- Temporary Duty  
U.S. Geological Survey, WRD, Tegucigalpa, Honduras, C.A.
2. POSITION -- **Principal Investigator, GS-13**
3. SUPERVISOR -- Verne R. Schneider
4. REMARKS -- Principal Investigator

### H. 2001 TO 2003

1. LOCATION -- U.S. Geological Survey, WRD, Jackson, Mississippi
2. POSITION -- **Hydrologist, GS-12**
3. SUPERVISOR -- Larry J. Slack
4. REMARKS -- Chief, Hydrologic Unit Code Boundary Delineation

- I. 2002  
 1. LOCATION -- U.S. Geological Survey, Gaborone, Botswana  
 2. POSITION -- **Principal Investigator, GS-12**  
 3. SUPERVISOR -- Verne R. Schneider  
 4. REMARKS-- Principal Investigator, Village Flood Watch Project
- J. 2001  
 1. LOCATION -- U.S. Geological Survey, Guatemala City, Guatemala, C.A.  
 2. POSITION -- **Hydraulic Engineer, GS-12**  
 3. SUPERVISOR -- Rafael W. Rodriguez-Cruzado/Mark Smith  
 4. REMARKS-- Team Leader, Indirect Measurements/Hurricane Mitch Program
- I. 1993 TO 2001  
 1. LOCATION -- U.S. Geological Survey, WRD, Jackson, Mississippi  
 2. POSITION -- **Supervisory Hydrologist, GS-12**  
 3. SUPERVISOR -- Gerald L. Ryan  
 4. REMARKS -- Chief, Surface Water Records Unit
- J. 1992 TO 1993  
 1. LOCATION -- Surface Water Records Unit, Jackson, MS  
 2. POSITION -- **Hydrologist, GS-11**  
 3. SUPERVISOR -- Gerald L. Ryan  
 4. REMARKS -- Acting Chief of Surface Water Records Unit
- K. 1989 TO 1991  
 1. LOCATION -- Hydrologic Investigations Section, Jackson, MS  
 2. POSITION -- **Civil Engineer/Hydrologist, GS-11**  
 3. SUPERVISOR -- Michael W. Gaydos  
 4. REMARKS -- Bridge Sites Studies / Channel Meander Project
- L. 1987 TO 1989  
 1. LOCATION -- Hydrologic Investigations Section, Jackson, MS  
 2. POSITION -- **Civil Engineer, GS-09**  
 3. SUPERVISOR -- Andrew G. Lamonds / Michael W. Gaydos  
 4. REMARKS -- Bridge Site studies / Channel Stability project
- M. ENTERED ON DUTY WITH USGS AS **Civil Engineer, GS-09**, Jackson, MS, 10-13-87

## **Education and Training:**

1. HIGHEST EDUCATION LEVEL -- **Master of Engineering**
2. YEAR OF COMPLETION -- **1986**
3. POST HIGH SCHOOL SUMMARY

INSTITUTION-- **Louisiana State University**  
LOCATION-- Baton Rouge, LA  
DATES-- 1984 to 1986  
MAJOR-- **Civil Engineering**  
DEGREE-- **M. E.**

INSTITUTION-- **Mississippi State University**  
LOCATION-- Starkville, MS  
DATES-- 1980 to 1981  
MAJOR-- **Graduate School - Remote Sensing**  
DEGREE--

INSTITUTION-- **Mississippi State University**  
LOCATION-- Starkville, MS  
DATES-- 1972 to 1977  
MAJOR-- **Forestry and Wildlife Management**  
DEGREE-- **B. S.**

INSTITUTION-- **Delta State University**  
LOCATION-- Cleveland, MS  
DATES-- 1971 to 1972, Fall 1976  
MAJOR-- **Biology**  
DEGREE--

## **Other Education and Training:**

DATE	PROVIDER	TITLE	HOURS
05/02/11	USGS	Leadership 101 (NCTC)	40
09/29/08	EOE	Harassment in the Federal Workplace (Ethics)	2
04/08/06	VA-DMV	Defensive Driving Certification	4
06/07/02	PRIV	CPR for the Professional Rescuer	8
06/11/01	PRIV	Annual CPR and Community First Aid	8
02/23/99	PRIV	Mgmt. Problems of the Tech. person in Leader	8
09/18/98	PRIV	How to criticize and discipline employees	8
08/17/98	OSW	FESWMS Workshop	16
06/04/98	PRIV	CPR for the Professional Rescuer	8
03/27/98	PRIV	Interpersonal Communications Skill	8
03/18/98	PRIV	Managing Multiple Projects, Goals etc.	8
02/12/98	WRD	Writing and editing hydrologic reports	24
01/26/98	PRIV	Coaching, Criticism, an Discipline for Mgrs.	8
12/05/97	WRD	Motorboat Operator Training	32
08/20/97	PRIV	LRGS Training Course	24
06/04/97	DIST	Hazardous materials training	8
06/03/97	REDCR	Community CPR	8
05/19/97	OSW	Instructor, Meas. of flow using ADCPs	36
02/20/97	NOGO	Presentations with Confidence and Power	8
03/28/96	NOGO	HANDAR 555 Training Workshop	24
11/03/95	DIST	Quality Council Training	24
07/13/95	OSW	Measurement of Streamflow using ADCP's	40
06/16/95	OPM	Personnel Mgmt. for Supervisors and Mgrs.	40
12/03/93	IRS	Facilitator Training	36
04/09/93	NTC	WRD - QIC Coordinator Training (G1304)	100
02/19/93	AREA	QIC Awareness Training	24
01/14/93	DIST	Introduction to Total Quality Management	8
05/22/92	REG	Introduction to Supervision and Management	40
05/01/92	NTC	Advanced SW Hydraulics Analysis (G0093-A)	80
10/25/91	REG	Implementation and calibration of BRANCH	32
08/02/91	OPM	Introduction to UNIX	40
05/14/90	NTC	Statistical Approach to Surface Water Analysis	40
12/07/89	REG	Problem Solving – WRD Project	20
06/07/89	REG	Introduction to the Principle of the WRD	20
06/05/89	REG	WRD Orientation for new employees	16
04/07/89	NTC	River Mechanics	36
02/03/89	REG	Surface Water Techniques	28
11/17/88	NTC	MS District Reports Writing Workshop	24
11/04/88	NTC	Probability and Statistics for Data Analysis	40
05/13/88	REG	Indirect Measurement of Peak Discharge	36
03/28/88	DIST	Applied FORTRAN 77	36
02/12/88	NTC	Basic Hydraulic Principles	40
11/06/87	DIST	Wilderness First Aid	16

## **Work Experience Narrative:**

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**Turnipseed Consulting 11/01/15-Present) – President and Chief Executive Officer:** Breaux Bridge, Louisiana. As CEO of Turnipseed Consulting, I manage the company and am working in research, development, and implementation of surface water standards in hydrology and open channel hydraulics.

**USGS Southeast Region 09/01/14-Present) – Senior Science Advisor for Water Programs:** Atlanta, Georgia. As Senior Science Advisor for Water Programs, I am researching problematic surface water hydrology and hydraulic issues in the Southeast Region, an area that includes Water Science Centers in Arkansas, Louisiana, Mississippi, Alabama, Tennessee, Georgia, North and South Carolina, Florida and the Caribbean Sea. Research, development, and implementation of surface water standards in hydrology.

**USGS National Wetlands Research Center (11/08/10-10/01/14) - Center Director, [USGS, National Wetlands Research Center, Lafayette, LA](#):** As Director of the National Wetlands Research Center (NWRC), I was responsible for 170-180 employees dedicated to wetland science and geospatial research and application. My duties included the planning, design, science direction, and management of the NWRC. As leader of the NWRC Executive Management Team, I was responsible for managing the Center's research and outreach activities that includes global expertise in: Forest and Wetlands Ecology and Geospatial Analysis.

**USGS Office of Surface Water (09/01/04-10/31/10) - Hydrologist:** USGS-WRD, Reston, VA: [Hydrologist with the USGS Office of Surface Water](#). I worked in support of maintaining the quality assurance/quality control of a nationwide network of near real-time surface water streamgages. I was responsible for developing approaches to complex surface-water flow situations; providing technical advice to other professionals and hydrologic technicians on standard methods and procedures for collecting surface water data; and leading reviews of surface water records in USGS State Water Science Centers within the U.S. I reviewed and prepared national policy and guidelines for hydrology and hydraulics; and authored interpretive reports and techniques and methods for publication for both USGS and scientific journals. My duties included being the:

- Coordinator, USGS-USACE Cooperative Streamgaging Program
- Coordinator, USGS-IJC Cooperative Streamgaging Program
- Manager, WRD Discontinued Station Maintenance – Capital Improvement Program
- Coordinator, WRD Compacts Activities
- Advisor, water related safety activities and issues
- Coordinator, WRD annual data collection station count and report

**My representation for the USGS included being the:**

- Primary WMA liaison, HQ USACE
- Primary WMA liaison, HQ NOAA
- Primary liaison, Water Survey Canada Agency and the Environment Canada Ministry
- Member, American Society of Civil Engineers Task Committee on Bridge Scour
- Member, Interagency Task Committee for FEMA Levee Policy
- Member, Interagency Performance Evaluation Task Force (IPET)

- Delegate, ISO Technical Committee 113 on Hydrometry, Subcommittee 5 on Instruments, Equipment, and Data Management
- OSW representative, Web 2.0 issues

**USGS National Wetlands Research Center (03/15/09-05/17/09) - Acting Deputy Center Director,** USGS, National Wetlands Research Center, Lafayette, LA: As acting Deputy Director of the National Wetlands Research Center (NWRC) my duties included the day-to-day management of the NWRC. As a member of the Executive Management Team (EMT), I was responsible for assisting the Director in managing over \$15M in research and outreach activities that included global expertise in: Forest and Wetlands Ecology and Geospatial Analysis. During my brief tenure, I authored the NWRC Environmental Quality Program to improve employee health and welfare and wrote the NWRC Strategic Science Plan 2010-2015.

**USGS Texas Water Science Center (06/16/03-08/31/04) – Surface Water Specialist:** USGS-WRD, Austin, TX: [As Surface Water Specialist for USGS Texas Water Science Center](#), I was responsible for the quality control/assurance of surface water related data collection and investigative projects for 6 offices in the State of Texas. My responsibilities included: the quality assurance/quality control of a statewide network of more than 450 continuous, near real-time surface water streamgages; developing approaches to complex surface-water flow situations; providing technical advice to other professionals on standard methods and procedures for collecting surface water data; and planning and design construction of surface water streamgages. I reviewed comprehensive analysis of surface water records; checked and reviewed all discharge rating curves; wrote proposals for interpretive surface water studies; and authored and reviewed interpretive reports for publication for both USGS and scientific journals.

**USGS Surface Water Hydrology QA/QC (05/01/03-09/30/04) - Hydrologist:** USGS, Tegucigalpa, Honduras, C.A.: [I was the principal Investigator of a study to develop a surface water monitoring quality control/quality assurance plan for Honduras in cooperation with U.S. Agency for International Development \(USAID\)](#). The plan was written to serve as a template to assist the development of surface water monitoring network throughout Central America. I developed the primary project work plan and coordinated the efforts of 15 USGS persons to upgrade and flood harden 23 hydrologic monitoring stations with near real-time reporting capacity output to in-country regional websites. I coordinated the installation and operation of 4 satellite downlinks to receive data near real-time from over 70 streamgages in Honduras. I led the installation of a PC-based multi-purpose database with the ability to store, quality assure, analyze, and publish surface water statistics in a coordinated multi-agency effort to initiate the archival of surface water resources for Honduras. I recruited, coordinated and led training classes on the operation of a PC-based data base software and on hydrologic data collection, analysis and publication. We published the 2003 climatic water resources data report for Honduras, working in close contact and maintaining close working relationships with the USAID/Honduras, U.S. Embassy in Honduras, and host-country counterparts within ten separate Honduran water and emergency management agencies and two Honduran universities.

**USGS Interpretive Studies (04/01/01-06/13/03) - Hydrologist:** USGS-WRD, Jackson MS: [I was project chief of a study to delineate and digitize 5<sup>th</sup> and 6<sup>th</sup> level hydrologic unit codes \(watershed boundaries\) for the State of Mississippi in cooperation with the U.S. Department of Agriculture Natural Resources Conservation Service, the Mississippi Department of Environmental Quality Office of Pollution Control and the Mississippi Automated Resources Information System](#). During

this period I also wrote proposals for interpretive surface water studies; critically reviewed reports prepared by other professional personnel; and authored several interpretive reports for publication for both USGS and scientific journals.

**USGS Village Flood Watch Project (04/01/02-3/01/03) - Hydrologist:** USGS, Gaborone, Botswana, Africa: [I was principal Investigator of a study to develop a pilot early flood warning system in the Limpopo River basin in Botswana in cooperation with U.S. Agency for International Development \(USAID\).](#) I developed the project work plan and coordinated the efforts of 11 USGS persons to build 3 new and upgrade 3 hydrologic monitoring stations and build 2 new meteorological monitoring stations with near real-time reporting capacity output to a regional website at SADC-HYCOS in South Africa. I coordinated the efforts of a team of USGS hydrologists to develop stage/discharge relations at 9 streamgages in the Limpopo River basin in coordination with extreme flooding in 1995-2000. I coordinated and led field surveys to measure and compute step-backwater computations, which were published for 9 sites in the Limpopo River basin on CD-ROM. I coordinated two training classes on hydrologic runoff modeling and electronic and data collection platform maintenance and operation, respectively. I developed and maintained close contact and working relationships with the USAID Regional Center for Southern Africa, U.S. Embassy in Botswana, and host-country counterparts in the Botswana Departments of Water Affairs, Meteorological Services, Roads, and the National Disaster Management Office.

**USGS Hurricane Mitch Program (04/01/01-10/01/01) - Hydrologist:** USGS, Guatemala City, Guatemala, C.A.: [I was the team leader of a study to develop stage/discharge relations at 9 real-time continuous recording streamgages in El Salvador and Guatemala, C.A. in coordination with extreme flooding caused by Hurricane Mitch in 1998.](#) Field surveys were measured and step-backwater computations were published for 6 sites in the Rio Lempa, Rio Sumpul and Rio Grande de San Miguel drainage basins in El Salvador, and 3 sites on the Rio Ostua and Rio Coyolate drainage basins in Guatemala. Close contact was maintained with host-country counterparts of SMHN in El Salvador and INSIVUMEH in Guatemala. Training class was given on total station surveying.

**USGS Hydrological Data Section (10/01/92-03/31/01) - Supervisory Hydrologist:** USGS-WRD, Jackson, MS: [I was project chief of statewide network of >125 surface water streamgages.](#) I was responsible for developing approaches to complex surface-water flow situations; providing technical advice to other professionals and hydrologic technicians on standard methods and procedures for collecting surface water data; planning and designing construction of surface water streamgages; and reviewing surface water records. I checked and reviewed all discharge rating curves; wrote proposals for interpretive surface water studies; critically reviewed reports prepared by other professional personnel; and authored interpretive reports for publication for both USGS and scientific journals.

**USGS Channel Meandering Project (10/22/89-09/30/92) – Civil Engineer/Hydrologist:** USGS-WRD, Jackson, MS. I was Project chief of a study to develop a better methodology to estimate channel meandering in cooperation with the Mississippi Department of Transportation; I trained young engineers in routine maintenance and measurement of a standard surface water streamgaging trip; I monitored and modeled local scour at bridges; I worked on a U.S. Army Corps of Engineers Demonstration Erosion Control project to collect QW data at select sites in northern Mississippi.

**USGS Bridge Site Studies(10/13/87-10/22/89) - Civil Engineer:** USGS-WRD, Jackson, MS: [I worked, checked, reviewed, and completed many hydraulic flood study analyses on bridge sites](#)

[draining >1000 acres for Mississippi Department of Transportation \(MDOT\)](#); I worked in support of a channel stability project with the Mississippi Department of Transportation involving studies of channel-bed degradation and channel-bank widening estimation on modified streams in north central Mississippi, which resulted in a series of reports at selected stream crossings; I worked on a national and state-wide project to study local scour at bridges; I maintained and operated a surface water gaging maintenance trip in the Pascagoula River Basin of Mississippi; I sampled and monitored groundwater and water quality stations;

**Self-employed Carpenter, (10/01/86-09/30/87) - Carpenter:** Lafayette, La.: I owned and operated a business for remodeling and restoration of residential infrastructure and new home and commercial construction. During this period, I did many odd jobs and maintained a journeyman carpenter status.

**LSU Remote Sensing / Image Processing Laboratory (03/05/84-09/01/86) - Research Associate:** Remote Sensing and Image Processing Laboratory, Department of Civil Engineering, LSU, Baton Rouge, LA: I was the project chief of an environmental assessment study funded by USDA-Soil Conservation Service to document land loss in coastal wetlands; I supervised processing, interpretation, and application of remote sensing technology in the Cameron-Creole Watershed of southwest Louisiana; I actively worked in the geotechnical identification of hazardous waste site cleanup; I did aerial photointerpretation and multispectral digital interpretation and analysis; I gained extensive technical writing, proposal and budget development experience.

**Amoss Construction Company, LLC (11/01/82-03/05/84) - Carpenter:** Amoss Construction Co., New Orleans, LA: I worked in remodeling and restoration of historic register buildings in the Central Business District in preparation for the 1984 Louisiana World Exposition; I worked on new home construction and remodeling and restoration of older homes in the historic Garden District and Audubon Park areas; I gained extensive foundation work experience including the restoration of St. Patrick's Cathedral; and the restoration and remodeling of buildings for Tulane University. I helped restore a warehouse in the New Orleans Warehouse District for the Historic New Orleans Museum; I gained journeyman carpenter status.

**Mississippi Remote Sensing Center (12/12/79-10/01/81) - Laboratory Manager-Research Associate:** Mississippi Remote Sensing Center, Miss. State, Mississippi: I was involved in the manual and digital processing of remotely sensed data for input to Geographic Information Systems (GIS) used for environmental assessment studies; I did extensive field work including forest habitat and wetland identification and classification, site indices, and timber volume estimates; I did cartographic drafting in the production of a map atlas of Tennessee-Tombigbee River Project; I was project chief of a study to develop a unique spectral signature for gravel mining detection using Landsat multi-temporal and multi-spectral digital data.

**Smithsonian Institution / U.S. Peace Corps (09/01/77-12/01/79) - Forest Engineer:** Smithsonian Institution/U.S. Peace Corp., Cuenca, Ecuador, S. A.: I supervised up to 15 man crews in a reforestation project in the southern sierra of the Andes Mountains of Ecuador; I was the principal investigator of a 8-year exotic and native tree species project in various climates from the mountains to the foothills of the Amazon Basin; We published annual administrative reports (in Spanish) to interactive agencies (i.e. USAID, FAO, CARE, Host-country development agencies); I accessed funds through grants for community projects such as nurseries, potable water, and bridge construction; I gained fluent Spanish abilities.

## **Bibliography:**

### **Published Annual USGS WRD Statewide Data Reports:**

- Morris, F.M. III, **Turnipseed, D.P.**, and Storm, J.B., 2003, [\*Water Resources Data in Mississippi in Water Year 2002: U.S. Geological Survey Water-Data Report MS-02-1\*](#), 416p.
- Morris, F.M. III, **Turnipseed, D.P.**, and Storm, J.B., 2002, *Water Resources Data in Mississippi in Water Year 2001: U.S. Geological Survey Water-Data Report MS-01-1*, 252p.
- Plunkett, M.L., Morris, F.M. III, and **Turnipseed, D.P.**, 2001, *Water Resources Data in Mississippi in Water Year 2000: U.S. Geological Survey Water-Data Report MS-00-1*, 366p.
- Plunkett, M.L., Morris, F.M. III, Oakley, W.T., and **Turnipseed, D.P.**, 2000, *Water Resources Data in Mississippi in Water Year 1999: U.S. Geological Survey Water-Data Report MS-99-1*, 242p.
- Plunkett, M.L., Morris, F.M. III, Oakley, W.T., and **Turnipseed, D.P.**, 1999, *Water Resources Data in Mississippi in Water Year 1998: U.S. Geological Survey Water-Data Report MS-98-1*, 288p.
- Plunkett, M.L., Morris, F.M. III, Oakley, W.T., and **Turnipseed, D.P.**, 1998, *Water Resources Data in Mississippi in Water Year 1997: U.S. Geological Survey Water-Data Report MS-97-1*, 308p.
- Plunkett, M.L., Morris, F.M. III, Oakley, W.T., and **Turnipseed, D.P.**, 1997, *Water Resources Data in Mississippi in Water Year 1996: U.S. Geological Survey Water-Data Report MS-96-1*, 324p.
- Plunkett, M.L., Morris, F.M. III, Oakley, W.T., and **Turnipseed, D.P.**, 1996, *Water Resources Data in Mississippi in Water Year 1995: U.S. Geological Survey Water-Data Report MS-95-1*, 295p.
- Plunkett, M.L., Morris, F.M. III, Oakley, W.T., and **Turnipseed, D.P.**, 1995, *Water Resources Data in Mississippi in Water Year 1994: U.S. Geological Survey Water-Data Report MS-94-1*, 313p.
- Plunkett, M.L., Morris, F.M. III, Oakley, W.T., and **Turnipseed, D.P.**, 1994, *Water Resources Data in Mississippi in Water Year 1993: U.S. Geological Survey Water-Data Report MS-93-1*, 428p.

## **Published Papers and Reports:**

McAnally, W.H., J.M., Kirby, R., Hodge, S.H., Welp, T.L., Greiser, N., Shrestha, P., McGowan, D., and **Turnipseed, P.** (Navigation Engineering Subcommittee, Waterways Committee, Coasts, Oceans, Ports, and Rivers Institute), 2015. "Nautical Depth for U.S. Navigable Waterways: A Review. "*J. Waterway, Port, Coastal, Ocean Engineering.* "  
[10.1061/\(ASCE\)WW.1943-5460.0000301\\_04015014](https://doi.org/10.1061/(ASCE)WW.1943-5460.0000301_04015014).

**Turnipseed, D.P.**, Allen, Y.C., Couvillion, B.R., McKee, K.L., and Vervaeke, W.C., 2014, Ecosystem effects in the Lower Mississippi River Basin: U.S. Geological Survey Professional Paper 1798–L, 17 p., <http://dx.doi.org/10.3133/pp1798L>.

Boudreau A., Cheng, D.M., Ruiz, C., Ribnicky D. M., Allain L.K., Brassieur C.R., **Turnipseed D.P.**, Cefalu W.T., Floyd Z.E., 2014, Screening Native Botanicals for Bioactivity: An Interdisciplinary Approach: *Nutrition* (2014), doi: 10.1016/j.nut.2014.02.028.

**Turnipseed, D.P.**, and Middleton, B.A., 2014, [Foreword: Function, Classification and Management of Asian Wetlands](#): *Wetlands: Asian Wetlands Special Feature*, 2 p.

**Turnipseed, D.P.**, 2012, [Science implementation of Forecast Mekong for food and environmental security](#): *U.S. Geological Survey Fact Sheet 2012–3086*, 4 p.

**Turnipseed, D.P.**, 2011, [Forecast Mekong](#): *U.S. Geological Survey Fact Sheet 2011-3076*, 2 p.

**Turnipseed, D.P.**, 2011, [Forecast Mekong: 2011 update](#): *U.S. Geological Survey General Information Product 130*, 8 p.

Stoker, J.M., **Turnipseed, D.P.**, and Wilson, K.V., 2011, [Using Regional-scale Pre- and Post Hurricane Katrina Lidar for Monitoring and Modeling](#): Chapter 30 *in Recent Hurricane Research - Climate, Dynamics, and Societal Impacts*, Anthony Lupo (Ed.), ISBN: 978-953-307-238-8, InTech, pp. 575-592.

Sauer, V. B. and **Turnipseed, D. P.**, 2010, [Stage measurements at gaging stations](#): *U.S. Geological Survey Techniques and Methods Book 3, Chapter A7*, 45 p.

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Olsen, J.R., White, K.D., Kiang, J.E., and **Turnipseed, D.P.**, 2010, [Water resources and stability: Changing climate impacts to water resources: Implications for stability](#): U.S. Army Corps of Engineers *in Perspectives on Political and Social Regional Stability Impacted by Global Crises-a social science context, Strategic multi-layer assessment (SMA) and U.S. Army Corps of Engineers Research and Development Directorate*, 10 p.

Brekke, L. D., Kiang, J.E., Olsen, J.R., Pulwarty, R.S., Raff, D.A., **Turnipseed, D. P.**, Webb, R.S., White, K.D., 2009, [Climate change and water resources management: A federal perspective](#): *U.S. Geological Survey Circular 1331*, 65 p.

- Wilson, K.V., Claire, M.G., **Turnipseed, D. P.**, and Rebich, R.A., 2009, [Watershed boundary dataset for Mississippi](#): *U.S. Geological Survey Scientific Investigations Map 3020*, 1 sheet.
- Wilson, K.V., Jr., Clair, M.G. II, **Turnipseed, D.P.**, and Rebich, R.A., 2009, [Development of a Watershed Boundary Dataset for Mississippi](#): *U.S. Geological Survey Open-File Report 2008-1198*, 8 p.
- Stoker, J.M., Tyler, D., **Turnipseed, D.P.**, Wilson, K.V., and Oimcen, M.J., 2009, [Integrating disparate lidar datasets for a regional storm surge analysis of Hurricane Katrina](#): *Journal of Coastal Research, SI 53*, p. 66-72, Charlottesville, VA, Online ISSN: 1551-5036, DOI: 10.2112/SI53-008.1.
- Turnipseed, D. P.**, and Ries, K.G. III, 2007, [National Streamflow Statistics Program: Estimating High and low streamflow statistics at ungaged sites](#): *U.S. Geological Survey Fact Sheet 20-3010*, 4 p.
- Runner, M.S., **Turnipseed, D. P.**, and Coupe, R.C., 2002, [Streamflow and water quality for the Yazoo River below Steele Bayou near Long Lake, Mississippi, 1996-2000](#): *U.S. Geological Survey Water Resources Investigations Report 02-4217*, 43 p.
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- Turnipseed, D.P.**, 1994, [Lateral movement and stability of channel banks near four highway crossings in southwestern Mississippi](#): *U.S. Geological Survey Water-Resources Investigations Report 94-4035*, 42p.
- Wilson, K.V., and **Turnipseed, D.P.**, 1994, [Geomorphic response to channel modifications of Skuna River at the State Highway 9 crossing at Bruce, Calhoun County, Mississippi](#): *U.S. Geological Survey Water-Resources Investigations Report 94-4000*, 43p.
- Turnipseed, D.P.**, 1993, [Lateral movement and stability of channel banks near two highway crossings in the Pascagoula River basin in Mississippi](#): *U.S. Geological Survey Water-Resources Investigations Report 93-4131*, 32p.
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- Turnipseed, D.P.**, and Baldwin, W.T., 1992, [Channel and bank stability of Bakers Creek at State Highway 547 near Port Gibson, Claiborne County, Mississippi](#): *U.S. Geological Survey Open-File Report 92-636*, 18p.

- Turnipseed, D.P.**, and Wilson, K.V., 1992, [Channel and bank stability of Standing Pine Creek at State Highway 488 near Freeny, Leake County, Mississippi](#): *U.S. Geological Survey Open-File Report 92-112*, 18p.
- Turnipseed, D.P.**, and Wilson, K.V., 1990, [Channel and bank stability of Twentymile Creek at U.S. Highway 45 near Wheeler, Prentiss County, Mississippi](#): *U.S. Geological Survey Open-File Report 90-111*, 16p.
- Wilson, K.V., and **Turnipseed, D.P.**, 1990, [Channel and bank stability of Wolf Creek and a tributary at U.S. Highway 45 near Wheeler, Prentiss County, Mississippi](#): *U.S. Geological Survey Open-File Report 90-110*, 18p.
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- Turnipseed, David Phil** and Miller, W. Frank, 1982, [Discrimination of active gravel operations using Landsat MSS data](#): *Mississippi Mineral Resources, Institute, University of Mississippi, University, MS*, Final Technical Report No. 82-1, April 1982.

### **Conference Proceedings:**

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- Turnipseed, D.P.**, 2003, [Development of a program for improved flood preparedness, warning and response in the Limpopo River in Botswana](#): in *Proceedings of the 33<sup>rd</sup> Annual Mississippi Water Resources Conference* (April 23-24, 2003), Raymond, MS, 13 p.
- Turnipseed, D.P.**, and Clair M.G. II, 2003, [Development of watershed and subwatershed boundaries for Mississippi](#): in *Proceedings of the 33<sup>rd</sup> Annual Mississippi Water Resources Conference* (April 23-24, 2003), Raymond, MS, 9 p.

- Turnipseed, D.P.**, 2002, [Tidal flux variation in the lower Pearl River and Lake Pontchartrain estuaries of Mississippi and Louisiana](#): in *Proceedings of the 2002 Environmental Water Resources Institute of the American Society of Engineering – Hydraulic measurements and Experimental Methods Conference*, (July 28-August 1, 2002), The Stanley Hotel, Estes Park, CO, 11 p.
- Turnipseed, D.P.**, 2002, [Measurement of tidal flux for the lower Pearl River and Lake Pontchartrain estuaries of Mississippi and Louisiana using acoustical Doppler velocity technology](#): in *Proceedings of the 32<sup>nd</sup> Annual Mississippi Water Resources Conference* (April 23-24, 2002), Raymond, MS, 15p.
- Turnipseed, D.P.**, 2001, [Effect of drought conditions on Mississippi streams and rivers in 2000](#): in *Proceedings of the 31<sup>st</sup> Annual Mississippi Water Resources Conference* (April 10-11, 2001), Raymond, MS, pp. 188-200.
- Turnipseed, D.P.**, 2000, [Contrasting discharge computation methods in riverine and tidally affected flows in Mississippi](#): in *Proceedings of the 2000 Joint Conference on Water Resources Engineering and Water Resources Planning and Management of the American Society of Civil Engineers* (July 30 - August 2, 2000), The Hyatt-Regency Minneapolis, MN, 10p.
- Turnipseed, D.P.**, and Long, Lloyd G., 2000, [Measurement of 1999 drought conditions in Mississippi](#): in *Proceedings of the 30<sup>th</sup> Annual Mississippi Water Resources Conference* (April 18-19, 2000), Raymond, MS, pp. 338-348.
- Turnipseed, D.P.**, and Winters, K.E., 1999, Effects of Hurricane Georges on the Central Gulf of Mexico Coast: in *Proceedings of the 1999 International Water Resources Engineering Conference of the American Society of Civil Engineers* (August 8-12, 1999), The Westin Seattle, Seattle, WA, 10p.
- Turnipseed, D.P.**, and Winters, K.E., 1999, [Effects of Hurricane Georges on the Central Gulf of Mexico Coast](#): in *Proceedings of the 29<sup>th</sup> Annual Mississippi Water Resources Conference* (April 7-8, 1999), Raymond, MS, pp. 1-10.
- Turnipseed, D.P.**, Cooper, L.M., and Davis A.A., 1998, [Use of acoustic methodology and remote sensing techniques to measure unsteady flow on the Lower Yazoo River in Mississippi](#): in *Proceedings of the 1998 International Water Resources Engineering Conference of the American Society of Civil Engineers* (August 3-7, 1998), The Peabody Hotel, Memphis, TN, 6p.
- Turnipseed, D.P.**, Cooper, L.M., and Davis A.A., 1998, [Use of acoustic methodology and remote sensing techniques to measure unsteady flow on the Lower Yazoo River in Mississippi](#): in *Proceedings of the 28<sup>th</sup> Mississippi Water Resources Conference* (April 7-8, 1998), Raymond, MS, p. 134-144.
- Turnipseed, D.P.**, and Cooper, L.M., 1997, Monitoring the lateral movement and stability of four highway crossings in southwestern Mississippi: in *Proceedings for the Conference on Management of Landscapes Disturbed by Channel Incisions (MLDCI)*, May 19-23, 1997, Oxford, MS, 6p.

**Turnipseed, D.P.**, and Storm, J.B., 1995, [Streamflow characteristics of the lower Pascagoula River, Mississippi](#): in *Proceedings of the 25<sup>th</sup> Mississippi Water Resources Conference* (April 11-12, 1995), Jackson, MS, 23p.

**Turnipseed, D.P.**, and Smith J.A., 1992, [Monitoring lateral movement and stability of channel banks on the Pearl River in Mississippi](#): in *Proceedings of the 22<sup>nd</sup> Mississippi Water Resources Conference* (April 14-15, 1992), Jackson, MS, 18p.

Wilson, K.V., and **Turnipseed, D.P.**, 1989, [Channel stability of selected streams in northern Mississippi](#): in *Proceedings of the 19<sup>th</sup> Mississippi Water Resources Conference* (March 14-15, 1989), Jackson, MS, pp. 104-112.

### **Poster Presentations:**

Allain, L.K., Brassieur, C.R., Boudreau, A., Ribnicky, D.M., **Turnipseed, D.P.**, Doyle, T.W., Cefalu, W.T., 2013, South Louisiana Ethnobotany and Diabetes: A Cajun Collaboration: U.S. Geological Survey: in *Proceedings of the 2013 Botanical Research Centers Annual Meeting (November 3-5, 2013)*, LSU Pennington Biomedical Research Center, Baton Rouge, La.

Wilson, K.V., **Turnipseed, D.P.**, Thatcher, C. Sempier, S., Wilson, S., Mason, R.R., Marcy, D., Burkett, V.R., Carter, D.B., and Culver, M.R., 2010, [Sea Level Rise Visualization on the Alabama-Mississippi and Delaware Coastlines](#): in *Proceedings of the 40<sup>th</sup> Annual Mississippi Water Resources Conference* (November 3-5, 2010), Bay St. Louis, MS.

**Turnipseed, D.P.**, 2008, The U.S. Geological Survey National Streamflow Statistics Program in *Proceedings of the 2008 Federal Highway Administration National Hydraulic Engineering Conference*, August 26-29, 2008, Portland, Maine.

Smith, M.E., Arroyo, G.W., and **Turnipseed, D. P.**, 2007, Augmentation and support of the Honduras streamgaging network and near real-time computer processing system: *Proceedings of the 2007 USGS National Surface Water Conference and Hydroacoustics Workshop* (April 2-6, 2007), St. Louis, Missouri

**Turnipseed, D. P.**, 2007, [The National Streamflow Statistics Program](#): *Proceedings of the 2007 USGS National Surface Water Conference and Hydroacoustics Workshop* (April 2-6, 2007), St. Louis, Missouri

**Turnipseed, D. P.**, Parks, J.E., and Eads, J.P., 2003, Automated time-series data management using a PC-based hydrologic software in Honduras, Central America: *Proceedings of the USGS National Surface Water Conference* (November 17-22, 2003), San Antonio, TX

Gary, M.O., Asquith, W.H., and **Turnipseed, D. P.**, 2003, Using acoustic Doppler velocities to index the surface water/groundwater interface in the Barton Springs Creek Aquifer in Central Texas: *Proceedings of the USGS National Surface Water Conference* (November 17-22, 2003), San Antonio, TX

- Clair, M.G., II, and **Turnipseed, D.P.**, 2003, [The Mississippi Geospatial Subwatershed Boundary](#): in *Proceedings of the 33<sup>rd</sup> Annual Mississippi Water Resources Conference* (April 23-24, 2003), Raymond, MS
- Stocks, S.J., and **Turnipseed, D.P.**, 2003, [Adaptive hydrologic and meteorologic instrumentation for flood warning in the Limpopo River in Botswana](#): in *Proceedings of the 33<sup>rd</sup> Annual Mississippi Water Resources Conference* (April 23-24, 2003), Raymond, MS
- Baldwin, W. T., and **Turnipseed, D. P.**, 2001, [Drought conditions in the Pascagoula River Basin in Mississippi in 2000](#): in *Proceedings of the 31<sup>st</sup> Annual Mississippi Water Resources Conference* (April 10-11, 2001), Raymond, MS, p. 106.
- Storm, J.B., and **Turnipseed, D. P.**, 2001, [A tethered acoustic Doppler current profiler Platform](#): in *Proceedings of the 31<sup>st</sup> Annual Mississippi Water Resources Conference* (April 10-11, 2001), Raymond, MS, p. 159.
- Wallace, J.S. and **Turnipseed, D. P.**, 2000, [Telemetric applications for hydrologic data in Mississippi](#): in *Proceedings of the 30<sup>th</sup> Mississippi Water Resources Conference* (April 18-19, 2000), Raymond, MS, p. 176.
- Massingill, D.K. and **Turnipseed, D. P.**, 2000, [United States Geological Survey Crest Stage Network in Mississippi](#): in *Proceedings of the 30<sup>th</sup> Mississippi Water Resources Conference* (April 18-19, 2000), Raymond, MS, p. 176.
- Dennis, H. S., and **Turnipseed, D. P.**, 1999, Effects of Hurricane Georges on the Central Gulf of Mexico Coast: in *Proceedings of the 29<sup>th</sup> Annual Mississippi Water Resources Conference* (April 7-8, 1999), Raymond, MS, p. 95.
- Turnipseed, D. P.**, 1998, [United States Geological Survey real-time streamgaging network](#): in *Proceedings of the 28<sup>th</sup> Mississippi Water Resources Conference* (April 7-8, 1998), Raymond, MS, p. 86.

### **Interim and Final Reports:**

- Turnipseed, D. P.**, Flores, I.O., Cardona, F., and Calderón, H., 2004, Boletín de Datos Hidrológicos de Honduras, Año Hidrológico 2003: *Informe de la Secretaria de Recursos Naturales y Ambiente de Honduras, Dirección General de Recursos Hídricos, Centro de Pronóstico Hidrológico y Alerta Temprana*, Tegucigalpa, Honduras, C.A., 93p.
- Turnipseed, D.P.**, Winters, K.E., and Baldwin, W.T., 2003, Stage-discharge ratings for 9 hydrological monitoring stations in the Limpopo River basin of Botswana: *U.S. Department of the Interior Geological Survey Final Administrative Report*, Pearl, MS.
- Turnipseed, D.P.**, Winters, K.E., and Baldwin, W.T., 2001, Stage-discharge ratings for 9 streamgages in El Salvador and Guatemala, Central America: *U.S. Department of the Interior Geological Survey Final Administrative Report*, Pearl, MS.

**Turnipseed, D.P.**, 1986, Spatial and temporal analysis of coastal wetland loss with remote sensing: *Master's Thesis, Department of Civil Engineering, LSU, Baton Rouge, LA*, May, 1986, 101p.

Hill, J.M., **Turnipseed, D.P.**, and Evans, D.L., 1986, Historical change assessment of the Cameron/Creole Watershed, Louisiana: *USDA/SCS-Louisiana State University Remote Sensing and Image Processing Laboratory Final Report*, Division of Engineering Research, Baton Rouge, La., 1986.

Hill J.M., **Turnipseed, D.P.**, and Evans, D.L., 1985, Digital mapping and land loss estimations of two proposed marsh restoration projects in Terrebonne and Lafourche Parishes, Louisiana. *USDA/Soil Conservation Service-Louisiana State University Remote Sensing and Image Processing Laboratory Interim Report*, Department of Civil Engineering, LSU, Baton Rouge, LA, December, 1985.

Hill J.M., Evans, D.L., **Turnipseed, D.P.**, and Harlow, C.A., 1985, Environmental monitoring for coastal zone management, *Louisiana Department of Natural Resources/Coastal Zone Management Final Report, Remote Sensing and Image Processing Laboratory, Division of Engineering Research, Louisiana State University, Baton Rouge, La.*, April 1985.

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Miller, W. Frank, and **Turnipseed, D.P.**, 1980, Discrimination of active gravel operations from Landsat MSS data. *Mississippi Mineral Resources Institute, Mississippi Remote Sensing Center*, Miss. State, MS, Interim Report, August 1980.

**Turnipseed, D.P.**, and Kopf, A.B., 1979, La Suma de la Fase II de los Ensayos de Especies Exóticas en las Provincias del Azuay, Cañar, y Morona Santiago (1976-1979), *Centro de Reconversión Económica del Azuay, Cañar y Morona Santiago CREA/U.S. Peace Corp. Forestry Investigations Program / Smithsonian Institution, Cuenca, Ecuador, S.A., Final Report*, October 1979.

**Turnipseed, D.P.**, and Kopf, A.B., 1978, La Conclusión de los Datos del Cuerpo de Paz de las Especies Exóticas en las Provincias del Azuay y Cañar: Los Ensayos de la Fase I (1968-1978), *Centro de Reconversión Económica del Azuay, Cañar y Morona Santiago (CREA)/U.S. Peace Corp. Forestry Investigations Program / Smithsonian Institution, Cuenca, Ecuador, S.A., Final Report*, November 1978.

## **Recent Abstracts:**

**Turnipseed, D. Phil**, 2015, USGS Near Real-Time Streamgaging: A Critical National Network: *in Proceedings of the 19th Joint Engineering Society Conference*, January 28-29, 2015, Lafayette, La.

**Turnipseed, D.P.**, 2014, Ecological Engineering for the Future of America's Coastal Wetlands: *in Proceedings of the 2014 Mississippi Engineering Society Conference*, March 5-7, 2014, Jackson, Miss.

**Turnipseed, D.P.**, 2013, Predicting Drivers and Management Practices in Large Rivers and Deltas: The USGS Delta Research and Global Observation Network (DRAGON): Special Session 017 in *Proceedings of the 2013 Association for the Sciences of Limnology and Oceanography Conference*, February 17-22, 2013, New Orleans, Louisiana.

**Turnipseed, D.P.**, 2012, Sportsman's Paradise Lost: A Tale to be Determined: in 2012 Southeastern Association of Fish and Wildlife Agencies Conference, October 7-10, 2012, Hot Springs, Arkansas.

Bartush, B., Tirpak, J., and **Turnipseed, D.P.**, 2012, Collaboration for Conservation in the Gulf of Mexico Coastal Region: A Footprint for the Future: *in Louisiana Association of Professional Biologists/Louisiana Chapter of the Society of Wetland Scientists 2012 Fall Symposium*, August 16-17, 2012, Lafayette, Louisiana.

Berkemeier, W., Catlet, D., Coulbourne, W.L., Holmes, R.R., Mason, R.R., Jr., Ramirez, A. R., Shaffer, W, and **Turnipseed, D.P.**, 2011, Establishing an improved national capability for collection of extreme storm and flood data: *in 2011 National Hydrologic Warning Training Conference and Exposition*, May 9-12, 2011, San Diego, California.

**Turnipseed, D.P.**, Piazza, Sarai C., Steyer, Gregory D. 2011, Coastwide Reference Monitoring System: Wetland Data to Support Restoration Assessment in the Mississippi River Delta, USA *in 2011 DeltaNet Conference*, June 6-10, 2011, Catalonia, Spain.

**Turnipseed, D.P.**, Thatcher, C. Sempier, S., Wilson, S., Mason, R.R., Marcy, D., Burkett, V.R., Carter, D.B., Culver, M.R., and Wilson, K.V., 2010, Sea Level Rise Visualization on the Alabama-Mississippi and Delaware Coastlines: *in 2010 Ocean Sciences Meeting*, February 22-26, 2010, Portland, Oregon.

Arcement, G.J., Tinto, L., and **Turnipseed, D.P.**, 2009, Super tide gages strengthen flood preparation and warning in the northern Gulf of Mexico: *in 33<sup>rd</sup> Conference of the Association of State Flood Plain Managers*, June 8-12, 2009, Orlando, Florida.

Dorsey, M.E., Turco, M.J., McGee, B.D., McCallum, B.E., Wilson, K.V., Jr., Holmes, R.R., **Turnipseed, D.P.**, Berenbrock, C.E., and Mason, R.R., Jr., 2009, (submitted for presentation), Mapping inland storm tides: *in American Geophysical Union Fall Meeting, December 15-19, 2008*, San Francisco, CA.

**Turnipseed, D.P.**, 2008, (Invited presentation), U.S. Geological Survey and Environment Canada in the 21<sup>st</sup> Century: Bridging the frontier in a changing environment, *Centennial Celebration of the Water Survey Canada Agency*, October 22, 2008, Penticton, BC, Canada.

**Turnipseed, D.P.**, K. Van Wilson, K.V., Jr., Hathorn, J.E., Tyler, D. Stoker, J. and Mason, R.R., Jr. 2008, (accepted for presentation), Internet Map Serving the Hurricane Katrina Storm Tide Crest in Alabama, Mississippi, and Louisiana: *in AWRA 2008 Annual Water Resources Conference Sheraton Hotel - New Orleans, Louisiana, November 17-20, 2008.*

Wilson, K.V., and **Turnipseed, D.P.**, 2008, (accepted for presentation) Long-term geomorphic channel change in selected reaches of Mississippi Streams: *in Proceedings of the The National Sedimentation Laboratory Conference: "50 Years of Soil and Water Research in a Changing Agricultural Environment,"* September 22-25, 2008, Oxford, MS.

**Turnipseed, D.P.**, 2008, (accepted for presentation), The U.S. Geological Survey National Streamflow Statistics Program *in Proceedings of the 2008 Federal Highway Administration National Hydraulic Engineering Conference*, August 26-29, 2008, Portland, Maine.

**Turnipseed, D.P.**, 2005, (invited presentation), Innovative flood monitoring in the United States: *2005 International Association of Hydraulic Research Forum of the Aqua Alta Conference*, Munich, Germany.

### **Select Completed Research Projects:**

1. ***"Augmentation of the Honduras streamgaging network and support of the near real-time computer processing system,"*** Principal Investigator, Republic of Honduras, Secretariat for Natural Resources and the Environment, 2005-2007, (\$200,000)
2. ***"Effective and Sustainable Water Management in the Republic of Honduras,"*** Principal Investigator, Sponsored by the U.S. Agency for International Development, 2003-2004, (\$320,000)
3. ***"Development of a Program for Improved Flood Preparedness, Warning, and Response in the Limpopo River Basin of Botswana and South Africa,"*** Principal Investigator, Sponsored by the U.S. Agency for International Development, 2002-2003, (\$550,000)
4. ***"Determining flooding at streamgages in El Salvador and Guatemala as a result of historic Hurricane Mitch,"*** Principal Investigator, Sponsored by the USGS, 2001, (\$35,000)
5. ***"Monitoring Surface Water Resources in the State of Mississippi,"*** Principal Investigator, Sponsored by multiple Federal, State, and Local Cooperators, 1992-2001, (\$1,400,000)
6. ***"Development of a better methodology to estimate channel meandering,"*** Principal Investigator, Sponsored by the Mississippi Department of Transportation (formerly named the Mississippi State Highway Department), 1989-1992, (\$900,000)
7. ***"Application of remote sensing technology in the Cameron-Creole Watershed of southwest Louisiana,"*** Principal Investigator, Sponsored by the Natural Resources Conservation Service (formerly named the U.S. Soil Conservation Service), 1984-1986, (\$60,000)

8. ***“Development of a map atlas for the Tennessee-Tombigbee Waterway,”*** Co-principal Investigator. Sponsored by U.S. Army Corps of Engineers Mobile District, 1981, (\$36,000).
9. ***“Discrimination of active gravel operations from Landsat Multispectral Scanner Data,”*** Principal Investigator. Sponsored by Mississippi Mineral Resources Institute, 1979-1981, (\$36,000).
10. ***“Exotic Species Trials in the Provinces of Azuay, Cañar, and Morona Santiago in the Southern Sierra of the Andes Mountains of Ecuador (1977-1979),”*** Principal Investigator. Sponsored by the Smithsonian Institution, U.S. Peace Corps Forestry Investigations, Ecuadorian Ministry of Agriculture, and the Azuay, Cañar, and Morona Santiago Regional Economic Development Agency (CREA), 1977-1979, (\$10,000).

### **College-level courses developed, coordinated or instructed:**

1. USDOJ-GS-WRD-OSW Coordinator/Instructor in *Indirect Measurement of Peak Discharge* (SW1163);
2. USGS-USAID *Estaciones Fluviométricas: Nivelación y Sección Transversal* San Salvador, El Salvador;
3. USGS-USAID *Cómputo de Caudal de Aguas Superficiales* Tegucigalpa, Honduras;
4. USGS-USAID *Análisis y Cómputo de los Datos Hidrológicos en Hydstra* Tegucigalpa, Honduras;
5. USDOJ-GS-WRD-NTC Instructor in *Advanced Surface Water Hydraulics Analysis* (SW2009);
6. USDOJ-GS-WRD-NTC Instructor in *Introduction to Surface Water Records Computation* (SW1286);
7. USDOJ-GS-WRD-NTC Instructor/co-developer of *Hydrographer Hydraulics* (SW1163);
8. USDOJ-GS-WRD-NTC Instructor in *Streamflow Measurements using Acoustic Doppler Current Profilers* (SW1321);

### **Recent Technical Presentations (2011 until 2013):**

1. Turnipseed, D. Phil (2013). ***“Ecological Engineering for the Future of America’s Coastal Wetlands.”*** 2013 Autumn Meeting of the Louisiana Engineering Society , Lafayette, Louisiana (November 21, 2013). **(Invited Presentation)**
2. Turnipseed, D. Phil (2013). ***“USGS Science in Coastal Louisiana: Current & Future Research”*** Lake Pontchartrain Basin Foundation’s Basics of the Basin 2013 Conference , Lindy Boggs Convention Center, University of New Orleans, New Orleans, Louisiana (October 24, 2013). **(Invited Presentation)**

3. Turnipseed, D. Phil, and Andersen, Matthew E. (2013). [\*“Predicting Drivers and Management Practices in Large Rivers and Deltas: The U.S. Geological Survey Delta Research and Global Observation Network \(DRAGON\)”\*](#) Association for the Sciences of Limnology and Oceanography 2013 Aquatic Sciences Meeting, February 17-22, 2013, New Orleans, Louisiana **(Invited Technical Sessions (2))**;
4. Turnipseed, D. Phil (2012). [\*“Hurricane Isaac: Storm Surge, Geomorphic Change and Marsh Dieback,”\*](#) Louisiana State University, School of the Coast and Environment, November 2, 2012, LSU, Baton Rouge, Louisiana **(Invited Lecture)**;
5. Turnipseed, D. Phil (2012). [\*“Sportsman’s Paradise Lost: A Tale to be Determined.”\*](#) in Proceedings of the 66<sup>th</sup> Annual Conference of the Southeastern Association of Fish and Wildlife Agencies, October 7-10, 2012, Hot Springs, Arkansas. **(Presented)**
6. Bartush, Bill, Tirpak, John, and Turnipseed, D. Phil (2012). [\*“Collaboration for Conservation in the Gulf of Mexico Coastal Region: A Footprint for the Future,”\*](#) in Proceedings of the 2012 Louisiana Association of Professional Biologists Symposium, Lafayette, Louisiana (August 16-17, 2012). **(Invited Presentation)**
7. Turnipseed, D. Phil (2012). *“USGS National Wetlands Research Center: Worldwide Wetland Science.”* U.S. Department of State, Institute on Global Environmental Issues and Southeast Asia Student Leaders, Baton Rouge, Louisiana (July 31, 2013). **(Invited Presentation)**
8. Turnipseed, D. Phil (2012). *“Existing Climate Data Resources (Programs and Portals) for the Gulf of Mexico Region.”* Gulf of Mexico Data and Scenarios Workshop, LSU, Baton Rouge, Louisiana (May 21-22, 2012). **(Invited Session Moderator)**
9. Turnipseed, D. Phil (2012). *“The Critical Role of High Water Marks in Hindcasting Hurricane and Riverine Flooding”* USGS National Wetlands Research Center Training Seminar (May 1, 2012). **(Invited Training Seminar)**
10. Turnipseed, D. Phil (2012). *“National Wetlands Research Center: Capabilities to help integrate climate science.”* Gulf of Mexico Climate Outreach Community of Practice Workshop, New Orleans, Louisiana (April 16, 2012). **(Invited Presentation)**
11. Turnipseed, D. Phil (2012). *“Engineering, Education, and America”* South Louisiana Community College Honors Ceremony, Lafayette, Louisiana (April 19, 2012) **(Invited Guest Speaker)**
12. Turnipseed, D. Phil (2012). *“Workshop on Best Practices of Research and Development Organizations.”* Keck Center of the National Academies, Washington, DC (March 19, 2012) **(Invited Participant)**
13. Turnipseed, D. Phil (2012). *“NWRC: Capabilities to help integrate science.”* Initial Partner meeting of the U.S. Geological Survey’s Southeast Climate Center, St. Petersburg, Florida (February 15, 2012). **(Invited Presentation)**
14. Turnipseed, D. Phil (2011). [\*“Ecology and Engineering: A marriage of necessity for the future of Louisiana coastal wetlands.”\*](#) LSU Department of Civil Engineering Seminar (CE7750), LSU, Baton Rouge, Louisiana (November 9, 2011). **(Invited Lecture)**
15. Turnipseed, D. Phil (2011). *“Native and Invasive Flora and Fauna in the Coastal Wetlands of Louisiana.”* Mississippi Public Broadcasting and the Mississippi Museum of Natural Science Radio Interview for “Creature Comforts.” Jackson, Mississippi (September 8, 2011). **(Invited Live Radio Interview)**
16. Turnipseed, D. Phil (2011). [\*“Land Area Change in Coastal Louisiana \(1932 to 2010\)”\*](#) State of Louisiana Coastal Protection and Restoration Authority Meeting, Homer L. Hitt

- Alumni Center, University of Louisiana, New Orleans, Louisiana (July 20, 2011). (**Invited Presentation**)
17. Turnipseed, D. Phil (2011). [“Land Area Change in Coastal Louisiana \(1932 to 2010\)”](#) State of Louisiana Governor’s Advisory Council, State Library of Louisiana, Baton Rouge, Louisiana (July 13, 2011). (**Invited Presentation**)
  18. Turnipseed, D.P. (2011). *“Coastwide Reference Monitoring System: Wetland Data to Support Restoration Assessment in the Mississippi River Delta, USA”* in 2011 DeltaNet Conference (June 6-10, 2011, Catalonia, Spain. (**Invited Presentation**)
  19. Turnipseed, D. Phil (2011). [“Unveiling the USGS Louisiana Wetlands Land Area Change Map”](#) State of Louisiana House of Representatives, Natural Resources and Environment Committee, Louisiana State Capitol Building, Baton Rouge, Louisiana (June 2, 2011). (**Invited Presentation**)
  20. Turnipseed, D. Phil (2011). [“Coastal Crusader: The New Director of the National Wetlands Research Center is Determined to Usher in a Collaborative Approach to Problem Solving.”](#) Lead article in Integration Quarterly (Launch Issue): The quarterly publication of the Design-Build Institute of America (Spring 2011). (**Invited Interview**)

### **Professional Membership and Activities:**

1. Xi Sigma Pi - Alpha Theta Chapter, 1980, Miss. State University, Starkville, Miss.
2. Graduated with honors - 1986 Master of Engineering (Civil Engineering), LSU, Baton Rouge, La.
3. American Water Resources Association - 1984 to 1986; Treas. LSU Chapter;
4. American Society of Photogrammetry and Remote Sensing 1981 to 1982; Pres. LSU Chapter;
5. Certified as Engineer-in-Training (E.I.T.), February 22, 1990
6. Diplomate, Water Resources Engineering (D.WRE) – American Academy of Water Resources Engineers, American Society of Civil Engineers, 2007 to present;
7. National Hydrologic Warning Council (2004 to present);
8. Society of Wetland Scientists (2011 to present);
9. North American Stream Hydrographers (2008 to present, charter member);
10. Member, International Association of Hydrological Sciences, (2013 to present)
11. Member, Association for the Sciences of Limnology and Oceanography (2012 to present)

### **Community Membership and Activities:**

1. Certified Coach – National Youth Sports Coaches Association 1990 – 2004; Certified Coach with the Mississippi Youth Soccer Association (MYSA);
  - a. Dizzy Dean Little League Baseball Coach
  - b. YMCA and School Soccer Coach
  - c. School Basketball Coach
  - d. Elementary School Football Coach
2. President of the St. Therese Athletic Association 1995-1998
3. League Director, Brandon Soccer League 2002-2003
4. St. Therese Catholic School Board Member 1995-1998

5. Scouts of America Adult Volunteer 1984 – present
6. Habitat for Humanity Volunteer in Jackson, MS

**Ancillary Skills:**

1. Remote Sensing Specialist
2. Journeyman Carpenter
3. University Lab. Instructor
4. College Chemistry and Mathematics Tutor
5. Fluent Spanish Speaking and Technical Writing
6. Limited French speaking ability
7. College Instructor

**Awards and Honors:**

- |   |         |
|---|---------|
| 1. PERFORMANCE AWARD                          | 12/2013 |
| 2. PERFORMANCE AWARD                          | 11/2012 |
| 3. PERFORMANCE AWARD                          | 11/2011 |
| 4. STAR AWARD                                 | 01/2011 |
| 5. PERFORMANC AWARD                           | 11/2010 |
| 6. STAR AWARD                                 | 10/2010 |
| 6. STAR AWARD                                 | 09/2010 |
| 7. STAR AWARD                                 | 01/2010 |
| 8. EXCEPTIONAL RATING: QUALITY STEP INCREASE  | 10/2009 |
| 9. STAR AWARD                                 | 09/2009 |
| 10. STAR AWARD                                | 07/2009 |
| 11. EXCEPTIONAL RATING: QUALITY STEP INCREASE | 12/2008 |
| 12. STAR AWARD                                | 07/2008 |
| 13. EXCEPTIONAL RATING: QUALITY STEP INCREASE | 12/2007 |
| 14. STAR AWARD                                | 11/2007 |
| 15. STAR AWARD                                | 07/2007 |
| 16. U.S. DOI SUPERIOR SERVICE AWARD           | 10/2006 |
| 17. STAR AWARD                                | 12/2006 |
| 18. STAR AWARD                                | 12/2005 |
| 19. STAR AWARD                                | 09/2004 |
| 20. STAR AWARD                                | 12/2003 |
| 21. STAR AWARD                                | 09/2002 |
| 22. STAR AWARD                                | 04/2002 |
| 23. STAR AWARD                                | 10/2001 |
| 24. STAR AWARD                                | 10/1999 |
| 25. STAR AWARD                                | 10/1998 |
| 26. STAR AWARD                                | 10/1997 |
| 27. STAR AWARD                                | 08/1996 |
| 28. UNIT AWARD FOR EXCELLENCE OF SERVICE      | 07/1995 |
| 29. SPECIAL ACHIEVEMENT AWARD                 | 05/1995 |
| 30. EXCEPTIONAL RATING: QUALITY STEP INCREASE | 07/1994 |
| 31. UNIT AWARD FOR EXCELLENCE OF SERVICE      | 08/1993 |
| 32. SPECIAL ACHIEVEMENT AWARD                 | 06/1992 |