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EDUCATION

Ph.D. in Civil and Environmental Engineering, May 1994

The University of Iowa, Iowa Institute of Hydraulic Research, Iowa City, Iowa

M.S. in Civil and Environmental Engineering, December 1991

The University of Iowa, Iowa Institute of Hydraulic Research, Iowa City, Iowa

B.S. in Civil Engineering, June 1987

Zagazig University, Cairo, Egypt

Professional Experience:

2017 - Present: Vice President for Science and Engineering. The Water Institute of the Gulf

2012 - 2017: Director of Natural Systems – Modeling and Monitoring. The Water Institute of the Gulf

2004 – 2012: Director of the Institute of Coastal Ecology and Engineering and Center for Louisiana Water Studies University of Louisiana

1997 – 2012: Professor with dual endowed professorships. Department of Civil Engineering, the University of Louisiana at Lafayette

1994 – 1997: Postdoctoral Research Associate. Iowa Institute of Hydraulic Research, the University of Iowa

1988 – 1990: Research Scientist. Hydraulics Research Institute, National Water Research Center, Cairo, Egypt

CURRENT RESEARCH PROJECTS

“NGOMEX 2016: Using Linked Models to Predict the Impacts of Hypoxia on Gulf Coast Fisheries Under Scenarios of Watershed and River Management” **Co-Principal Investigator**. Sponsored by NOAA Center for Sponsored Coastal Ocean Research (NOAA) (\$1,085,511)

“Coupled Process Studies and Numerical Simulations of Channel Hydrodynamics and Sand Dynamics in Tide-Dominated River Channels: A Mekong Delta Case Study” **Co-Principal Investigator**. Sponsored by the Office of Naval Research (ONR) (\$397,343)

“FESD Type II: A Delta Dynamics Collaboratory” **Co-Principal Investigator**. Sponsored by the National Science Foundation (NSF) (\$1,200,000)

“Collaborative Research: Development of Adaptable Web Modules to Stimulate Active Learning in Hydrology using Data and Model Simulations” **Co-Principal Investigator**. Sponsored by the National Science Foundation (NSF) (\$390,569)

“Modeling Improvements to Support Louisiana’s Coastal Master Plan,” **Principal Investigator**. Sponsored by Coastal Protection and Restoration Authority (CPRA) (\$4,063,337).

“Support of MS River Hydrodynamic and Delta Management Study,” **Principal Investigator**. Sponsored by Coastal Protection and Restoration Authority (CPRA) (\$100,740).

“Models and Data Management for Real Time Forecasting,” **Principal Investigator**. Sponsored by Baton Rouge Area Foundation and Coastal Protection and Restoration Authority (CPRA) (\$650,000).

“Calcasieu Ship Channel Salinity Control Measures Planning and Project Development Effort,” **Principal Investigator**. Sponsored by Coastal Protection and Restoration Authority (CPRA) (\$1,407,132).

“Lower Barataria Sediment Diversion Planning and Project Development Effort,” **Co-Principal Investigator**. Sponsored by Coastal Protection and Restoration Authority (CPRA) (\$1,446,128).

“Lower Breton Sound Sediment Diversion Planning and Project Development Effort,” **Co-Principal Investigator**. Sponsored by Coastal Protection and Restoration Authority (CPRA) (\$1,438,546).

COMPLETED RESEARCH PROJECTS

- “Modeling Services to Support the Design of a Medium-Size Diversion at White Ditch,” **Principal Investigator**. Sponsored by USACE, New Orleans District (\$94,000).
- “Understanding and Predicting Recharge of Mississippi River Sediment Borrow Areas,” **Co-Principal Investigator**. Sponsored by Coastal Protection and Restoration Authority (CPRA) (\$109,940).
- “Modeling Services to Support the Design of the Mid-Barataria Sediment Diversion Project.” **Principal Investigator**. Sponsored by HDR (\$199,996).
- “Analyzing New Project Concepts for Inclusion in Louisiana’s Coastal Master Plan,” **Principal Investigator**. Sponsored by Coastal Protection and Restoration Authority (CPRA) (\$100,740)
- “Improvement, Utilization, and Assessment of Chenier Plain Models for the Southwest Coastal Louisiana Feasibility Study,” **Principal Investigator**. Sponsored by Louisiana Department of Natural Resources (Office of Coastal Restoration and Protection) (\$752,965).
- “RII Track 2 collaborative project: Research and Education Cyber infrastructure Investments to Develop the Coastal Hazards Collaboratory in the Northern Gulf Coast” **Co-Principal Investigator**. Sponsored by the National Science Foundation (NSF) (\$2,166,000)
- “Data Management for CPRA,” **Principal Investigator**. Sponsored by Coastal Protection and Restoration Authority (CPRA) (\$313,529).
- “Review of the USAEC Hurricane Isaac Pre- and 2012 100-Year Hurricane Storm Damage Risk Reduction System Evaluation,” **Principal Investigator**.
- “Technical and Hydrologic Review and Evaluation for the Statewide Flood Protection Program,” **Principal Investigator**. Sponsored by the Department of Transportation and Development (\$79,498).
- “Review of Bank Stabilization & Marsh Creation Design for the Bayou Restoration Project,” **Principal Investigator**. Sponsored by Sellers and Associates (\$11,200).
- “Review of the Chateau de Lion Golf Course Subdivision,” **Principal Investigator**. Sponsored by the Lafayette Consolidated Government, Public Works Department (\$15,531).
- “Modeling Hydrologic Flow and Vegetation Response across the Tamiami Trail and Coastal Watershed of Ten Thousand Islands” **Principal Investigator**, Sponsored by the National Park Service (NPS) (\$120,973).
- “Hydrodynamic and Water Quality Modeling for the Loxahatchee Refuge – Everglades, Florida”, **Principal Investigator**. Sponsored by the United States Fish and Wildlife Services (DOI) (\$544,012).
- “Identification of Phosphorus Interactions in Wetland Plants” **Principal Investigator**. Sponsored by US Army Corps of Engineers (\$50,000).
- “One-Dimensional Sediment Transport Modeling of the Lower Mississippi River” **Principal Investigator**. Sponsored by US Army Corps of Engineers (\$40,000).
- “Donaldsonville to the Gulf Technical Review Panel” **Principal Investigator**. Sponsored by Louisiana’s Governors Office (\$10,000).
- Hydrodynamic and Sediment Transport Modeling for the Lower Mississippi River” **Principal Investigator**. Sponsored by the Science and Technology (S&T) office of the Louisiana Comprehensive Assessment (LCA) plan (\$215,014) Completed.
- “Sediment Availability in the Lower Mississippi River: Report on the Impact of the Myrtle Grove Diversion in Louisiana,” **Principal Investigator**. Sponsored by the Environmental Defense – Center for International Energy and Environmental Policy (\$23,062) Completed.
- “Morganza to the Gulf Technical Review panel,” **Principal Investigator**. Sponsored by Governor’s Office of Coastal Activities (\$10,000) Completed.
- “Assessing Nutrient Retention in the Taylor River Region Using Hydrodynamic and Mangrove Models,” **Principal Investigator**. Sponsored by the South Florida Water Management District (SFWMD) (\$59,499) Completed.
- “Information Technology Initiative,” **Principal Investigator**. Sponsored by the University of Louisiana at Lafayette (\$154,158).
- “Water and Sediment Budget Analyses for the Chenier Plain,” **Principal Investigator**. Sponsored by the Louisiana Department of Natural Resources (\$247,657).

- “Development of a Virtual-Reality Hydro-ecological and Engineering Observatory System for Educating Future Engineers and Scientists in the Field of Hurricane Protection and Coastal Restoration,” **Co-Principal Investigator**. Sponsored by the Louisiana Board of Regions Program (\$79,895).
- “Uncertainty of Radar Rainfall Estimates and Implications for Hydrologic Flood Predictions” **Co-Principal Investigator**. Sponsored by the Research Competitiveness Program (RCS), Louisiana Board of Regents (\$99,150).
- “Flood Prediction and Water Management for Sinai Peninsula Using Remote Sensing and Distributed Hydrologic Modeling Techniques” **Principal Investigator**. Sponsored by the National Science Foundation (NSF) (\$54,768)
- “General Professional Engineering Services,” **Principal Investigator**. Sponsored by the Hazen & Sawyer Environmental Engineers and Scientist (\$4,800).
- “Evaluation of Alternative Levee Design for Category 5 Hurricanes in the Chenier Plain,” **Principal Investigator**. Sponsored by the US Army Corps of Engineers, The New Orleans District (\$227,000).
- “Assessment of Satellite Rainfall Estimates for Improved Flood Predictions,” **Co-Principal Investigator**. Sponsored by the NASA-LaSPACE Program (\$29,749)
- “Evaluation of the LMRFC Multisensor Precipitation Estimates Using Independent Dense Rain Gauge Network and Disdrometer Measurements,” **Co-Principal Investigator**. Sponsored by The National Weather Service COMET Program (\$10,000).
- “Exploratory Analysis of Spatial-Temporal Dependency Structure of Radar Rainfall Estimation Error,” **Co-Principal Investigator**. Sponsored by EPSCoR Pilot Funding for New Research (Pfund) (\$9,500).
- “Comprehensive Water and Sediment Budget Analyses for the Chenier Plain”, **Principal Investigator**. Sponsored by CREST (\$168,939).
- “Variability of Rain Drop Size Distributions and Implications for Remote-Sensing of Rainfall” **Co-Principal Investigator**. Louisiana Space Consortium (LaSPACE)--NASA Space Program (\$20,853)
- “Coastal Louisiana Ecosystem Assessment And Restoration (CLEAR)”, **Co-Principal Investigator**. Sponsored by Louisiana Department of Natural Resources (\$55,876).
- “Lafayette Flood Study: Hydrologic Modeling – DFIRM”, **Principal Investigator**. Sponsored by US Army COE, NO District (\$42,258).
- “Laboratory Experimental Study for the Hydraulics and Structural Performance of Flap Gates” **Principal Investigator**. Sponsored by the Louisiana Department of Natural Resources (\$102,201).
- “Interactive Approach to Understanding the Causes of Salt Marsh Dieback: Coupled Hydrologic/Ecological Models of Marsh Dieback Processes,” **Co-Principal Investigator**. Sponsored by Louisiana Department of Natural Resources, and supervised by the Scientific-Technical Committee of the Barataria-Terrebonne National Estuary Program (\$129,814)
- “Addition of Lakes, Wetlands, and Detention Basins to CASC2D,” **Co-Principal Investigator**. Sponsored by the US Army Corps of Engineers, Engineer Research and Development Center (ERDC), Vicksburg, MS (\$237,139).
- “Travel Grant for Emerging faculty (TGEF)” **Co-Principal Investigator**. Sponsored by National Science foundation and Board of Regents Science Fund LA EPSCoR (\$2,000).
- “Hydro-Ecological Modeling of the Lower Mississippi River” **Principal Investigator**. Sponsored by the Governor’s Coastal Research and Development Program and the CLEAR – LDNR program (\$261,633).
- “Oil and Chemical Spill Contingency Plan for the Lower Mississippi River” **Principal Investigator**. Sponsored by the Louisiana Applied Oil Spill Research and Development Program (\$112,557).
- “Hydrologic Investigation of Low-Gradient Watersheds,” **Principal Investigator**. Sponsored by the Department of Defense, the Army Research Office (\$174,751)
- “Developing a Comprehensive Flood Management Hydrologic Computer Model,” **Principal Investigator**. Sponsored by Louisiana Department of Transportation and Development (\$163,676)
- “Lafayette Parish Comprehensive Water Resources Management Plan - Phase II,” **Principal Investigator**. Sponsored by the Lafayette Consolidated Government (LCG) (\$127,789)
- “Trajectory Analysis Planner Program for the Sabine Lake,” **Principal Investigator**. Sponsored by the Louisiana Applied Oil Spill Research and Development Program (\$51,231).

“Trajectory Analysis Planner Program for the Calcasieu Estuary,” **Principal Investigator**. Sponsored by the Louisiana Applied Oil Spill Research and Development Program (\$97,685).

“Lafayette Parish Flood Study - Phase I,” **Co-Principal Investigator**. Sponsored by the Lafayette Consolidated Government (\$81,444)

“Review of Statewide Flood Protection Program Studies,” **Principal Investigator**. Sponsored by the Department of Transportation and Development, Water Resources Division (\$39,000)

“Hydrologic Investigation of the Chenier Plain,” **Principal Investigator**. Sponsored by the Department of Natural Resources, Coastal Restoration Division (\$8,000).

“Development of Innovative Numerical Algorithms for Culverts and Bridge Crossings Hydraulics within a Distributed Hydrologic Model,” **Principal Investigator**. Sponsored by the US Army Corps of Engineers, Engineering Research and Development Center (ERDC) (\$35,239).

“Enhancement of Computational Capabilities in Civil Engineering,” **Co-Principal Investigator**. Sponsored by the Board of Regents Support Fund, Enhancement Program (\$118,000).

“Application of PIV and Numerical Modeling to Coastal Marshes,” **Principal Investigator**, the Board of Regents Support Fund, Research Competitiveness Program Subprogram (\$86,940).

“Three Dimensional Numerical Modeling of Mobile-Bed Hydrodynamics around Bridge Piers,” **Principal Investigator**, Louisiana Transportation Research Center (LTRC), Transportation Innovation for Research Exploration (TIRE) Awards (\$19,953).

“Lafayette Flood Study,” **Principal Investigator**. Sponsored by the New Orleans District, US Army Corps of Engineers (Interagency Personnel Agreement) (\$15,000).

“Emergency Management River Oil Spill Models,” **Co-Principal Investigator**, Louisiana Applied Oil Spill Research and Development Program (\$49,263).

“Multi-Prong Approach for Teaching and Research,” **Principal Investigator**, the Board of Regents Support Fund, Enhancement Program (\$61,005).

“Coastal Systems Modeling: Linkage Between Land-loss and Hydrologic Processes,” **Co-Principal Investigator**, the Board of Regents Support Fund, Coastal Modeling Grants Program (\$10,000).

“Bridging the Gap between Hydrology and Information Technology,” **Principal Investigator**, Instructional improvement Mini-grant award, the University of Louisiana (\$500).

“Evaluation of Bypass Alternatives in Napa River Using 3-D Numerical Modeling,” Sponsored by Philip Williams & Associates Ltd., San Francisco, CA, **Principal Investigator** (\$14,545).

“Surface Bypass and Collection Numerical Interpolation Modeling for Lower Granite Dam,” Sponsored by CH2M Hill (contract through Wala Wala District Corps of Engineers), **Principal Investigator** (\$20,600).

AWARDS, HONORS

1. The 2011 **Best Paper of the year**. Journal of Hydrologic Engineering, ASCE, EWRI.
2. The 2010 **LITE-Fellow** for the Computation and Visualization Enterprise Consortium (CAVE)
3. The 2008 University of Louisiana, College of Engineering **Researcher of the Year** Award.
4. The 2007 University of Louisiana/ASCE Civil Engineering **Favorite Teacher** Award.
5. The 2006 UL “**Distinguished Professor**” Award.
6. The 2006 Louisiana Engineering Foundation (LEF) **Engineering Faculty Professionalism** Award.
7. The Stuller Family/BORSF **endowed professorship** in engineering effective Fall 2006 - Present.
8. The Contractors Educational Trust Fund/BORSF **endowed professorship** in civil engineering effective Fall 2000 - Present.
9. The 2005 **Coastal Stewardship Award**, Coalition to Restore Coastal Louisiana.
10. The 2005 **Certificate of Appreciation from the Gulf Guardian Awards Program** administered by the Environmental Protection Agency (EPA)
11. The 2005 **Team Achievement Award**, Louisiana Coastal Area, US Army Corps of Engineers and the State of Louisiana.
12. The 2002 **Outstanding Government Engineer**, American Society of Civil Engineers, Louisiana Section.
13. The 2001 **James M. Todd Technological Accomplishment Medal**, Louisiana Engineering Society.
14. The 2001 **ASCE Faculty Advisor Reward Program**, the Committee on Student Activities (CSA).

15. The 1999-2000 Chi Epsilon **Excellence in Teaching Award** for the Southern District.
16. The American Society of Civil Engineers (ASCE) 1999 **Best Technical Note Award** for the Journal of Hydraulic Engineering.
17. Member of **Chi Epsilon**, the National Civil Engineering Honor Society.
18. Research and teaching assistantships, Iowa Institute of Hydraulic Research, the University of Iowa.
19. Full scholarship to attend the **NPACI** (National Partnership for Advanced Computational Infrastructure) Parallel Computing Institute, August 1997.

TEACHING EXPERIENCE

Undergraduate Courses:

Introduction to Civil Engineering
 Hydraulics
 Senior Civil Engineering Design
 Fluid Mechanics
 Hydrology
 Statics
 Experiments in Civil Engineering

Graduate Courses:

Open Channel Flow
 Computational Hydraulics
 Hydraulic Transients
 Turbulent Flows
 Mechanics of Sediment Transport

GRADUATE STUDENT ADVISING

Chairman of Theses Completed:

- Ahmed Gaweesh (2014): Civil Engineering – PhD
 Thesis Title: Sediment Dynamics in Alluvial Rivers as a Resource for Land Building
- Ashok Khadka (2013): Civil Engineering – MS
 Thesis Title: Modeling the Water-Sediment Fluxes and their Distribution in the Was lake Delta
- Kazi Sadid (2013): Civil Engineering – MS
 Thesis Title: Morphodynamic modeling of the Bonnet Carre Spillway during the 2011 Flood
- Hamid Bazgirkhoob (2012): Civil Engineering - MS
 Thesis Title: Stage and Water Quality Compartmental Model of an Everglades Wetland
- Sharad Dumre (2012): Civil Engineering - MS
 Thesis Title: Hydrological model calibration and validation using Berkeley Madonna for the Ten Thousand Island National Wildlife Refuge
- Arbind Shrestha (2011): Civil Engineering - MS
 Thesis Title: Comparative Analysis of 39-Compartment and Spatially-Explicit modeling of ARM Loxahatchee National Wildlife Refuge
- Sahas Shrestha (2010): Civil Engineering - MS
 Thesis Title: Hydrologic Investigation across a Marsh-Mangrove Ecotone in Ten Thousand Islands National Wildlife Refuge
- Roth William (2009): Civil Engineering - MS
 Thesis Title: Hydrodynamic and Water Quality Modeling for the Loxahatchee Refuge Using Completely Mixed Flow Model (CMF)
- Sherif Abdou (2008): Civil Engineering - MS
 Thesis Title: Interaction of Surface water/Groundwater in the Loxahatchee Refuge – Everglades, Florida
- Jeanne Arceneaux (2007): Civil Engineering - MS
 Thesis Title: Hydrodynamic and Water Quality Modeling for the Loxahatchee Refuge
- Robert Miller (2007): Civil Engineering - MS

- Thesis Title: Development of Hydrodynamic and Salinity Regional Model for the Chenier Plain
Karim Kheiashy (2007): Civil Engineering – PhD
- Thesis Title: Impact of Bed Forms on the Roughness for the Lower Mississippi River
Joao Rego (2006): Civil Engineering - MS
- Thesis Title: Sediment and Water Budget Analyses for the Chenier Plain – Louisiana
Ahmed Gaweesh (2006): Civil Engineering - MS
- Thesis Title: Oil and Chemical Spills for the Lower Mississippi River
Caroline Blair (2005): Civil Engineering - MS
- Thesis Title: Hydro-Ecological Modeling of the Lower Mississippi River
Oche Odeh (2004): Civil Engineering - MS
- Thesis Title: Assessment of the Capabilities and Limitations of Lumped Hydrologic Models applied to Mid-Size Catchments
Shankar Gautam (2004): Civil Engineering - MS
- Thesis Title: Sensitivity of Runoff Prediction to Spatial and Temporal Rainfall Sampling Using a Distributed Hydrologic Model.
Sarada Kalikivaya (2004): Civil Engineering - MS
- Thesis Title: Discharge-Stage Relationship for Low-Gradient Tidal Streams Using Physically Based and Data-Driven Models
Karim Keiashy (2003): Civil Engineering - MS
- Thesis Title: Field Measurements and Hydrologic Modeling of Low-Gradient Watersheds
Kirby Hebert (2001): Civil Engineering - MS
- Thesis Title: Laboratory Measurements of Unsteady Flows Through Culverts
Stewart Coyle (2001): Civil Engineering - MS
- Thesis Title: Three-Dimensional Hydrodynamic Modeling For The Calcasieu-Sabine Estuarine System
Tzevetlena Peeva (2001): Civil Engineering - MS
- Thesis title: Applications of Large Scale Particle Image Velocimetry (LSPIV) to Low-Velocity Water Bodies
Kepmike Ogouma (2000): Civil Engineering - MS
- Thesis title: Unsteady One-Dimensional Model of The Vermilion River

Committee Member of Theses Completed:

- Nazmus Shams Sazib (2012): Civil Engineering
Thesis Title: Satellite Rainfall Estimation and Application over the Nile Basin using Multi-Spectral, Multi Instrument Techniques
- Ruixuan Guo (2012) Civil Engineering
Thesis Title: Synthesis and Surface Modification of Ordered Mesoporous Carbons for Resorcinol Removal
- Hashim Rizvi (2012) Civil Engineering
Thesis Title: Mechanistic Characteristics of Carbon Nano-fiber Modified Asphalt & Hot Mix Asphalt Mixtures
- Joao Pereira (2011): Civil Engineering – PhD
Thesis Title: Numerical Modeling of River Diversions in the Lower Mississippi River
- Rajan Devkota (2010) Civil Engineering
Thesis Title: Calibration and Validation of Physically Distributed Hydrologic Model for a Mid-Size Partially Urbanized Watershed
- Dong Yan (2010) Civil Engineering
Thesis Title: Modeling Selenite Removal in Iron Coated Granular Activated Carbon Packed Bed Columns
- Boone Larson (2008) Civil Engineering
Thesis Title: National Weather Service Multi-Sensor Precipitation Estimates (MPE): Validation and Application”
- C. G. Malakpet (2007) Civil Engineering

- Thesis Title: Uncertainty of Radar Rainfall Estimates and Implications for Hydrologic Flood Predictions
- Mohamed F. Habib (2007) Civil Engineering
Thesis Title: "The Effect of Radar-rainfall Uncertainties on Simulation of Different Runoff Processes"
 - Ananda V Aduvala (2006) Civil Engineering
Thesis Title: Rainfall Measurement Errors and their Impact On Flood Predictions
 - Justin Baker (2005) Biology
Thesis Title: A Flume Technique to Measure Marsh Nutrient Flux in Coastal Wetlands Associated with a Mississippi River Diversion
 - Feng Yuan (2005) Civil Engineering
Thesis Title: Variability of Insitu Layer Moduli of Pavements Using Nondestructive Testing
 - Mohamed El-Rawady (2005): Civil Engineering
Thesis Title: Application of GISSHA to Goodwin and Isaac Verot Watersheds
 - Yuebin Li (2004) Civil Engineering
Thesis Title: Applications of Highway Safety Manual with Louisiana Data
 - Ming Li (2003) Civil Engineering
Thesis Title: A Feasibility Study for Development of an ITS Center in Lafayette
 - David Kenley (2002) Civil Engineering
Thesis Title: Tidal Surge Velocities under Low Flow Conditions on the Vermilion River
 - Patrick O'Brien (2001) Civil Engineering (University of New Orleans)
Thesis Title: Development of Techniques for Estimating the Unmeasured Load in Large Rivers
 - Sarah Kuchipudi (1999) Civil Engineering
Thesis topic: River Time-Of-Travel Studies on Various Streams in Louisiana

PROFESSIONAL SERVICES AND ACTIVITIES:

EDITORIAL AND REVIEW SERVICES FOR PEER REVIEWED JOURNALS:

Associate Editor: January 2008 – 2016

Journal of Hydrology, Elsevier Science, Earth Sciences Department

Associate Editor: August 2003 – December 2008

Journal of Hydraulic Research, International Association of Hydraulic Research (IAHR)

Referee for:

Army Research Office (ARO) - Terrestrial Sciences: Engineering Sciences Directorate

National Science Foundation – Hydrologic Sciences Program

Journal of Hydraulic Engineering, ASCE

Journal of Irrigation and Drainage Engineering, ASCE

Journal of Hydrologic Engineering, ASCE

Journal of Communications n Numerical Methods in Engineering

Journal of Hydrology, Elsevier Science, Earth Sciences Department

Journal of Advances in Water Resources, Elsevier Science, Earth Sciences Department

Committee Member: of the LA Applied Coastal Engineering & Science (LACES) Division, Louisiana Office of Coastal Protection and Restoration “The Ad Hoc Planning Committee”

Committee Chair: the American Society of Civil Engineers, Environmental Water Resources Institute (EWRI) “Computational Hydraulics” Technical Committee.

Committee Member: the American Society of Civil Engineers, Environmental Water Resources Institute (EWRI) “Flow around Hydraulic Structures” Task Committee.

Committee Member: of the American Society of Civil Engineers, Environmental Water Resources Institute (EWRI) “Review of Numerical Models for Wetlands” Task Committee.

Committee Member: “Coastal Impact Assistance Program (CIAP)” Technical Review Panel for the Louisiana Department of Natural Resources.

Committee Member: Science and Engineering Review Team (SERT) for the Louisiana Department of Natural Resources.

Panel Member: Academic Panel on Review of Candidates for Position of Director, LCA Science & Technology Program.

Panel Member: The Morganza-to-the-Gulf Technical Review Panel appointed by the Louisiana Coastal Protection and Restoration Authority.

Panel Member: The Donaldsonville-to-the-Gulf Technical Review Panel appointed by the Louisiana Coastal Protection and Restoration Authority.

PROFESSIONAL MEMBERSHIPS

Member, American Geophysical Union (AGU), Member since 2006

Member, American Society of Civil Engineers (ASCE - 287458), Member since 1991

PROFESSIONAL REGISTRATION

Professional Engineer, Louisiana, License # 28960. Issue Date: 05/30/2000; Expiration Date: 09/30/2016

Professional Engineer, Iowa, License # 14050

CONFERENCE STEERING COMMITTEE MEMBER:

- State of The Coast, Symposium organized by Coalition to Restore Coastal Louisiana, June 2010.
- Ecosystem Functions and the Natural Processes of the Chenier Plain, Symposium organized by the Coalition to Restore Coastal Louisiana, January 9, 2009.
- Envisioning the Future of the Gulf Coast, New Orleans, LA April 24-28, 2006.
- American Wetlands Technical Summit, New Orleans, LA. October 16 – 17, 2003.

CONFERENCE TECHNICAL SESSION CHAIRMAN:

- The Hydroinformatics 2000, 23-27 July, University of Iowa, Cedar Rapids, Iowa.
- The Habitat Technology 2000, Building Northern Gulf of Mexico Coalitions for Technological Advances in Coastal Habitat Enhancement and Restoration, Louisiana Sea Grant June 26-28
- The International Water Resources Eng. Conference, ASCE, Memphis, Tennessee, 3-7 August 1998.
- The XXVII IAHR Congress, San Francisco, California, 10-15 August 1997.

UNIVERSITY ACADEMIC SERVICES

Committees Chaired:

- Civil Engineering (2009 - 2011): Chi Epsilon Faculty Advisor
- Civil Engineering (2008): Structural Engineering tenure track faculty search committee
- Civil Engineering (2006): Environmental Engineering tenure track faculty search committee
- Civil Engineering (2006): Structures tenure track faculty search committee
- Civil Engineering (2002): Water Resources tenure track faculty search committee
- Civil Engineering (2000): Laboratory Technician search committee

Committee Memberships:

University Committee Membership:

- Civil Engineering– Crisis on Campus Workshop
- UL Lafayette Distinguished Professor Selection Committee
- Institutional Review Group Committee
- Search Committee for the Chief Scientist for the Louisiana Immersive Technology Enterprise (LITE) (Chaired by Dr. Steve Landry)
- Confidential Investigative Committee on Possible Research Misconduct, supervised by the Institution’s Research Integrity Officer.
- Institutional Self Study - subcommittee on the environment (Chaired by Dr. Paul Leberg). Committee’s [Webpage: http://www.louisiana.edu/SACS/part5.html](http://www.louisiana.edu/SACS/part5.html)

- The CADE farm strategic planning committee (Chaired by Dr. Charles Reeth)

College Committee Membership:

- Civil Engineering – Undergraduate Computer Laboratory
- Civil Engineering – Department Resources
- Professorship Selection Committee – M. Eloi Girard/BORSF
- Search Committee for the Dean of the College of Engineering (Chaired by Dr. James Garber)
- Peer review committee, College of Engineering (Chaired by Dr. M. A. Elsayed)
- Transportation tenure track faculty search committee (Chaired by Dr. Paul A. Richards)
- Work load committee, College of Engineering (Chaired by Dr. Ali Ghalambor)
- Revision of the departmental graduate program committee (Chaired by Dr. Xiaoduan Sun)

Other Services:

- Faculty Advisor, American Society of Civil Engineers (ASCE) Student Chapter
- Participates on department recruitment activities
- Teaches the Fluid Mechanics review lectures for the Fundamental of Engineering (FE) exam

COMMUNITY SERVICES

Volunteer Consultant:

Bayou Vermilion District (BVD)

Service on civic committees:

- Judge at the Annual Region VI science Fair. Engineering Senior Division entries
- Grader and examination supervisor for “Math Count” competition organized by Louisiana Engineering Society (LES) for the local high-school students

PEER REVIEWED PUBLICATIONS

1. Stephens J, Andrea Ogston, Fei Xing, Dallon Weathers, Ehab Meselhe, Mead Allison, Diana Di Leonardo, Robin McLachlan (2017 – in review) “Sand Dynamics in the Mekong River Channel and Export to the Coastal Ocean.” Submitted to Continental Shelf Research.
2. Allison M., Brendan T. Yuill, Ehab A. Meselhe, Jonathan K. Marsh, Alexander S. Kolker, and Alexander D. Ameen (2017 – in review) “Observational and Numerical Particle Tracking to Examine Sediment Dynamics in a Mississippi River Delta Diversion.” Submitted to Estuarine, Coastal and Shelf Science.
3. Allison M., Dallon Weathers, Ehab Meselhe (2017 – in review) “Bottom Morphology in the Song Hau Tributary Channel, Mekong River Delta, Vietnam.” Submitted to Continental Shelf Research.
4. Xing F., Ehab Meselhe, Mead Allison, Dallon Weathers (2017 – in review) “Analysis and numerical modeling of the flow and sand dynamics in the lower Song Hau channel, Vietnam.” Submitted to Continental Shelf Research.
5. Xing F., James P.M. Syvitski, Albert J. Kettner, Ehab A. Meselhe, John H. Atkinson, Ashok Khadka (2017-in review) “Morphodynamic Impacts of Hurricanes on the Wax Lake Delta, Louisiana.” Submitted to Elementa
6. Meselhe E.A., Sadid K.M., and Allison M.A. (2016) “Riverside morphological response to pulsed sediment diversion.” *Geomorphology*, Volume 270, October, P 184-202. DOI: 10.1016/j.geomorph.2016.07.023.
7. Yuill B.T., Khadka A.K., Pereira J., Allison M.A., and Meselhe E.A. (2016) “Morphodynamics of the erosional phase of crevasse-splay evolution and implications for river sediment diversion function.” *Geomorphology*, Volume 259, April, P 12-29. DOI: 10.1016/j.geomorph.2016.02.005.
8. Gaweesh A. and Meselhe E.A. (2016) “Evaluation of Sediment Diversion Design Attributes and Their Impact on the Capture Efficiency.” *Journal of Hydraulic Engineering, ASCE*, January, DOI: 10.1061/(ASCE)HY.1943-7900.0001114.
9. Yuill B.T., Gaweesh A, Allison, M.A., and Meselhe E.A. (2015). Morphodynamic evolution of a Lower Mississippi River channel bar after sand mining. *Earth Surface Processes and Landforms*. August, DOI: 10.1002/esp.3846.

10. Michot, B., Meselhe, E., Krauss, K., Shrestha, S., From, A., and Patino, E. (2015). "Hydrologic Modeling in a Marsh–Mangrove Ecotone: Predicting Wetland Surface Water and Salinity Response to Restoration in the Ten Thousand Islands Region of Florida, USA." *J. Hydrol. Eng.*, [10.1061/\(ASCE\)HE.1943-5584.0001260](https://doi.org/10.1061/(ASCE)HE.1943-5584.0001260), D4015002.
11. Twilley, R.R., S. Brandt, D. Breaux, J. Cartwright, J. Chen, G. Easson, P. Fitzpatrick, K. Fridley, S. Graves, S. Harper, C. Kaiser, A. Maestre, M. Maskey, W. McAnally, J. McCorquodale, E. Meselhe, T. Miller-Way, K. Park, J. Pereira, T. Richardson, J. Tao, A. Ward, J. Wiggert and D. Williamson. (2014). Simulation Management Systems developed by the Northern Gulf Coastal Hazards Collaboratory (NG-CHC): An overview of cyberinfrastructure to support the coastal modeling community in the Gulf of Mexico. *Advances in Coastal and Marine Resources: Remote Sensing and Modeling* edited by Charles W. Finkl, Antonio H.F. Klein, and Christopher Makowski. Coastal Research Library (CRL) series. ISBN 978-3-319-06326-3. 460 pages
12. Allison M.A., Ramirez M.T., and Meselhe E.A. (2014). Diversion of Mississippi River Water Downstream of New Orleans, Louisiana, USA to Maximize Sediment Capture and Ameliorate Coastal Land Loss. *Water Resources Management*, Volume 28. ISSN 0920-4741, DOI 10.1007/s11269-014-0731-y.
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47. Meselhe E.A. (1999) “Computer Applications in Hydraulic Engineering,” *Journal of Hydraulic Engineering*, ASCE, vol. 125 (6).
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49. Meselhe E.A., and Odgaard A.J. (1998) “Three-Dimensional Numerical Flow Model for Fish Diversion Studies at Wanapum Dam,” *Journal of Hydraulic Engineering*, ASCE, vol. 124 (12).
50. Meselhe E.A., Bradley A., Kruger A., and Muste M. (1998) “PIV and Numerical Modeling for Flow Estimation and Analysis in Coastal Marshes” *Recent Research in Coastal Louisiana: Natural System Function and Response to Human Influences*, A symposium convened by the Louisiana Universities Marine Consortium 3-5 February 1998, Lafayette, Louisiana.
51. Meselhe E.A., Sotiropoulos F., and Holly F.M. Jr. (1997). “Numerical Simulation of Transcritical Flow in Open Channels” *Journal of Hydraulic Engineering*, ASCE, vol. 123 (9).
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53. Meselhe E.A. and Holly F.M. Jr. (1993). “Simulation of Unsteady Flow in Irrigation Canals with Dry Bed,” *Journal of Hydraulic Engineering*, ASCE, vol. 119 (9).

CONFERENCE PROCEEDINGS AND PRESENTATIONS

1. Alexandra Christensen, Robert R. Twilley, Clinton S. Willson, Ehab Meselhe, Laurel Larsen, Edward Castañeda-Moya, Gregg Snedden (2016). Patterns and Interactions Between Hydrodynamics and the Fate of Nitrate in Newly Emergent Coastal Deltaic Floodplains, AGU, San Francisco, CA, December 12-16.
2. Cyndhia Ramatchandirane, Ehab A. Meselhe, Mead A. Allison, Austin Feldbaum, Diana Di Leonardo, Collin Ortals, Dallon H. Weathers (2016). Engineering Salinity Control in Lake Calcasieu, Louisiana To Protect Fringing Wetlands and Estuarine Ecosystems While Preserving Deep-Draft Access to the Port of Lake Charles. Bays and Bayous, Mississippi-Alabama Sea Grant Consortium, Nov 30 – Dec 1.
3. Ehab Meselhe, Elizabeth Jarrell, Melissa Baustian, Hoon Jung, Mead Allison, Denise Reed, Jim Pahl, Scott Duke-Sylvester, Jenneke Visser, Johannes Smith, Michel Jueken, Bas Van Maren (2016). Mississippi River Delta Management Study: Analysis and Evaluation of Proposed Land Building Strategies. NCER, Ecosystem Restoration in Action, April 18-22, Coral Springs, FL.
4. Eric White and Ehab Meselhe (2016). Linking Downscaled Global Climate Models to Planning Level Ecosystem Models. NCER, Ecosystem Restoration in Action, April 18-22, Coral Springs, FL.
5. Meselhe E. A. (2016). Mississippi River Delta Management Study: Analysis and Evaluation of Proposed Land Building Strategies. **Invited Speaker**. Tulane Engineering Forum, 15 April. New Orleans, LA.

6. Bryan P. Piazza, David P. Harlan, Michele Cutrofello Eddy, Michael Lowry, Ehab Meselhe (2016). Application of modeling and model-based decision-support tools to inform water policy and management – an example from Louisiana. Data Flow, 9-10, May, Baton Rouge, LA.
7. Sadid, K.M., Meselhe, E.A., Sylvester, S.D., Khadka, A., Willson, C. (2016). “Biophysical Modeling of Delta Morphodynamics”, Poster Paper, SEN - CSDMS 2016 Annual Meeting, Capture climate change, Boulder, Colorado.
8. Meselhe, E., White, E., Reed, D., Grace, A., Wang, Y., Green, M., Freeman, A., Lindquist, D., Pahl, J. (2016). Introduction to the 2017 Coastal Master Plan Future Scenarios. State of the Coast, New Orleans, LA, June 1-3.
9. Ehab Meselhe, Eric D. White, Denise Reed, Stokka Brown, Brady Couvillion, Zhifei Dong, Mandy Green, Scott Duke-Sylvester, Alex McCorquodale, Mallory Rodrigue, Jenni Schindler, Gordon Thomson, Z. Jonathan Wang (2016). Coastal ecosystem integrated compartment model (ICM): modeling framework. State of the Coast, New Orleans, LA, June 1-3.
10. Cyndhia Ramatchandirane, Mead Allison, Brendan Yuill, Melissa Baustian, Ehab Meselhe, Nan Walker, and Alaric Haag (2016). The impact of the Davis Pond freshwater diversion on water and sediment exchange in Barataria Basin (Presentation). State of the Coast, New Orleans, LA, June 1-3.
11. Mead Allison, Cyndhia Ramatchandirane, Austin Feldbaum, Ehab Meselhe (2016). Data Collection and Baseline Assessments for the Calcasieu Salinity Control Measures Project. State of the Coast, New Orleans, LA, June 1-3.
12. Ehab Meselhe, Joao Pereira, Francesca Messina, Ashok Khadka, Robert Miller, Mallory Rodrigue, Scott Duke Sylvester, Brady Couvillion, Holly Beck, Austin Feldbaum, Cyndhia Ramatchandirane, Mead Allison (2016). Comprehensive Modeling Approach to Analyze the Calcasieu Ship Channel Salinity Control Measures Project. State of the Coast, New Orleans, LA, June 1-3.
13. Ehab Meselhe, Melissa Baustian, Hoon Jung, Kazi Sadid, Fei Xing, Ashok Khadka, Mead Allison, Scott Duke-Sylvester, Jenneke Visser, Johannes Smith, Michel Jueken, Bas Van Maren (2016). Mississippi River Hydrodynamic and Delta Management Study (MRHDM): Basin-Wide Delft3D Model Setup, Validation, and Application. State of the Coast, New Orleans, LA, June 1-3.
14. Emad Habib and Ehab Meselhe (2016). Unlocking the Educational Value of Louisiana Coastal Restoration: Development of Web-Based Active-Learning Modules for Undergraduate Education. State of the Coast, New Orleans, LA, June 1-3.
15. Gaweesh, Ahmed, McCorquodale, Alex, Meselhe, Ehab, Pereira, Joao (2016). Evaluation of Sediment Extraction Options in Alluvial Rivers Used as a Resource for Land-Building. State of the Coast, New Orleans, LA, June 1-3.
16. Ehab Meselhe, Daniel Twigt, Francesca Messina, Ashok Khadka, and Katelyn Costanza (2016). Coastal Eco-morphological Real-time Forecasting (CERF) System. State of the Coast, New Orleans, LA, June 1-3.
17. Meselhe, E.A., Messina Francesca, Khadka Ashok, Daniel Twigt, Lora Buckman (2016), “Coastal Eco-Geomorphologic Real-time Forecast (CERF) System” North American Deltares Software days, Portland, Oregon, 7-10, March.
18. Ehab A. Meselhe, Fei Xing, Eric White, Mead A. Allison, and H. Dallon Weathers III (2016). Morphodynamic Modeling of the Song Hau (Mekong) River Channel in Vietnam. Ocean Sciences meeting, AGU, New Orleans, 21-26 February.
19. Meselhe Ehab, Elizabeth Jarrell, A. "Carol Parsons" Richards, James Pahl (2016). Morphodynamic Analysis of a Proposed Network of Sediment Diversions. Ocean Sciences meeting, AGU, New Orleans, 21-26 February.
20. Mead A. Allison, H. Dallon Weathers III, and Ehab A. Meselhe (2016). Channel Bottom Morphology in the Deltaic Reach of the Song Hau (Mekong) River Channel in Vietnam. Ocean Sciences meeting, AGU, New Orleans, 21-26 February.
21. Meselhe, E.A. (2015), “The future of computer modeling of coastal wetland, estuarine, and riverine systems” – **Invited Keynote Speaker**. Deltares Software days, Delft, the Netherlands, 26 October - 6 November.
22. Meselhe, E.A. (2015), “Coastal Eco-Geomorphologic Real-time Forecast (CERF) System” Deltares Software days, Delft, the Netherlands, 26 October - 6 November.

23. Meselhe, E.A., White, E.D., Brown, S., Couvillion, B., Dong, Z., Green, M., Duke-Sylvester, S., McCorquodale, A., Rodrigue, M., Schindler, J., Thomson, G., Visser, J., Wang, Z.J. (2015). "Coastal Ecosystem Integrated Compartment Model (ICM): Modeling Framework", American Geophysical Union Fall Meeting, San Francisco, California.
24. Bollfrass, K., LeBlanc, J., Meselhe, E., Escude, D., Pahl, J. (2015). "Feasibility and Design of the Lower Barataria Diversion Project Determined by Data and Predictive Modeling", Coastal and Estuarine Research Federation Biennial Meeting, Portland, Oregon.
25. Christensen, A., Twilley, R., Willson, C., Meselhe, E.A., Castaneda-Moya, E., Heffner, L. (2015). "Testing the capability of Delft 3D-Water Quality to model nitrogen processes in a deltaic floodplain", Coastal and Estuarine Research Federation Biennial Meeting, Portland, Oregon.
26. Freeman, A., Grace, A., Green, M., Lindquist, D., Meselhe, E., Reed, D., Wang, Y., White, E. 2015. Louisiana's 2017 Coastal Master Plan: Model Improvement Plan. In Proceedings of the CERF 2015. Portland, Oregon.
27. Sadid, K., Meselhe, E.A., Khadka, A. (2015) "Parameter Sensitivity and Uncertainty Analysis of the Delta Morphodynamics", Coastal and Estuarine Research Federation Biennial Meeting, Portland, Oregon.
28. White, E., Meselhe, E., Brown, S., Couvillion, B., Dong, Z., Green, M., Duke-Sylvester, S., McCorquodale, A., Rodrigue, M., Schindler, J., Thomson, G., Visser, J., Wang, Z., Reed, D. (2015) "Integrated Compartment Model (ICM) application scenarios, uncertainties and project evaluations", Coastal and Estuarine Research Federation Biennial Meeting, Portland, Oregon.
29. McCorquodale, A., Amini, S., Teran, G., Gaweesh, A., Kenny, S., Pereira, J., Meselhe, E., (2015) "Response of the Lower Mississippi River and its Delta to Sediment Diversions", Coastal and Estuarine Research Federation Biennial Meeting, Portland, Oregon.
30. Pahl, J., Green, M., Meselhe, E., Reed, D. (2015) "Accounting for Eustatic Sea Level Rise in the State Louisiana's 2017 Coastal Master Plan", Coastal and Estuarine Research Federation Biennial Meeting, Portland, Oregon.
31. Jarrell, E., Meselhe, E., Baustian, M., Jung, H., Allison, M., Reed, D., Pahl, J., Duke-Sylvester, S., Visser, J., Smith, J., Jueken, M., Van Maren, B. (2015) "Predictive Modeling for a Proposed Network of Diversion Projects across the South Louisiana Landscape", Coastal and Estuarine Research Federation Biennial Meeting, Portland, Oregon.
32. Meselhe, E., White, E., Brown, S., Couvillion, B., Dong, Z., Green, M., Duke-Sylvester, S., McCorquodale, A., Rodrigue, M., Schindler, J., Thomson, G., Visser, J., Wang, Z. (2015) "Coastal ecosystem integrated compartment model (ICM): modeling framework", Coastal and Estuarine Research Federation Biennial Meeting, Portland, Oregon.
33. Ramachandirane, C., Yuill, B., Allison, M., Baustian, M., Meselhe, E.A. (2015) "Observational network studies of receiving basin dynamics along lower Mississippi River in coastal Louisiana", Coastal and Estuarine Research Federation Biennial Meeting, Portland, Oregon.
34. Ramachandirane, C., Yuill, B., Allison, M., Baustian, M., Meselhe, E.A. (2015) "Observations of basin-wide dynamics along the lower Mississippi River via in-situ and remotely sensed data", American Shore and Beach Preservation Association Meeting, New Orleans, LA.
35. Yuill, B., Gaweesh, A., Allison, M., Meselhe, E.A. (2015) Morphodynamic evolution of a Lower Mississippi River channel bar after sand mining", Earth Surface Processes and Landforms.
36. Meselhe, E.A., (2015) "Coastal Master Plan: Overview", 2017 Coastal Master Plan Modeling Update recorded webinar
37. Meselhe, E.A. (2015) "Coastal Eco-System Integrated Compartment Model (CIM)", CSDMS 2015 Annual Meeting.
38. Meselhe, E.A., (2015) "Exploring the Impacts of Hurricanes and Cold Fronts on the Morphological Evolution of the Wax Lake Delta, LA", Community Surface Dynamics Modeling System (CSDMS) Annual Meeting, Boulder, Colorado.
39. Yuill, Khadka, Allison, Meselhe, E.A. (2015) "New insights into the effectiveness of a Lower Mississippi River sediment diversion using a decade of field observations and morphological modeling", SEDHYDRO 2015, Reno, Nevada.

40. Ramirez, M. T., Allison, M. A., Meselhe, E. A., and Vosburg, B. M., 2014. Sedimentary dynamics of the lower Mississippi River and implications for river diversions, State of the Coast Meeting (oral presentation), New Orleans, LA.
41. Meselhe, E.A., Jung, H., Costanza, K., Sadid, K.M., Pereira, J.F., Khadka, A. (2014). "Investigation of Sediment Diversions in the Lower Mississippi River", Poster Paper, CSDMS 2014 Annual Meeting, Uncertainty and Sensitivity in Surface Dynamics Modeling, Boulder, Colorado.
42. Meselhe, E.A., Sadid, K.M., Pereira, J., Jung, H. (2014). "Numerical Modeling of Sediment Diversions in the Lower Mississippi River", State of The Coast 2014 Conference, New Orleans, Louisiana.
43. Khadka, A.K., Meselhe, E.A., Sadid, K.M. (2013). "Three Dimensional Morphodynamic Modeling of Wax Lake Delta", Poster Paper, American Geophysical Union Fall Meeting, San Francisco, California.
44. Meselhe, E.A., Sadid, K.M., Jung, H., Allison, M.A., Vosburg B.M., McCorquodale, J.A. (2013). "Investigation of the morphodynamics in the Lower Mississippi River in the vicinity of Bonnet Carré Spillway during and after the 2011 flood", 22nd Biennial Conference of the Coastal and Estuarine Research Federation, San Diego, California.
45. Meselhe, E.A., Jung, H., Pereira, J., Sadid, K.M., Gaweesh, A., Allison, M., McCorquodale, J.A., Teran, G., Fuhrop, H. (2013). "Numerical Investigations of Sediment Diversions On The Lower Mississippi River", Basics of the Basin 2013, The Coastal Wetlands Planning, Protection and Restoration Act (CWPPRA), New Orleans, Louisiana.
46. Sadid, K.M., Meselhe, E.A., Allison, M.A., McCorquodale, J.A., Gaweesh, A.M., Pereira, J.F., Georgiou, I.Y.; Vosburg B.M. (2013). "Numerical modeling of Bonnet Carre Spillway as a large controlled diversion during the 2011 Mississippi River flood", World Environmental and Water Resources Congress, ASCE-EWRI, Cincinnati, Ohio.
47. Gaweesh, A.M., Meselhe, E.A., Allison, M.A., McCorquodale, J.A., Sadid, K.M., Pereira, J.F., Georgiou, I.Y.; Vosburg B.M. (2013). "Examining the long term impact of pulsed sediment diversions on the stability of lateral sand bars in the Lower Mississippi River", World Environmental and Water Resources Congress, ASCE-EWRI, Cincinnati, Ohio.
48. Sadid, K.M., Meselhe, E.A., Allison, M.A., McCorquodale, J.A., Gaweesh, A.M., Pereira, J.F., Georgiou, I.Y.; Vosburg B.M. (2013). "Hydrodynamic and sediment transport modeling of Bonnet Carre Spillway during the 2011 Mississippi River flood", 2013 Aquatic Sciences Meeting, The Association for the Science of Limnology and Oceanography (ASLO), New Orleans, Louisiana.
49. Gaweesh, A.M., Meselhe, E.A., Allison, M.A., McCorquodale, J.A., Sadid, K.M., Pereira, J.F., Georgiou, I.Y.; Vosburg B.M. (2013). "Numerical modeling of pulsed sediment diversions; Effect on stability of lateral sand bars in the Lower Mississippi River", 2013 Aquatic Sciences Meeting, The Association for the Science of Limnology and Oceanography (ASLO), New Orleans, Louisiana.
50. Ramirez, M. T., Allison, M. A., and Meselhe, E. A., 2012. Field observation and numerical modeling of bed-material transport dynamics in the lower Mississippi River, AGU Fall Meeting (poster session), San Francisco, CA.
51. Waldon, M.G., Chen, C., Meselhe, E.A. (2012) "Total Phosphorus Calibration of the Simple Refuge Screening Model Version 4 Using Optimization", 9th INTECOL International Wetlands Conference, Orlando, Florida, June 3-8.
52. Waldon, M.G., Chen, C., Wang H., Bazgirkhoob, H., Meselhe, E.A. (2012) "Zero Order Sulfate Disappearance Rate in an Everglades Wetland Estimated Using Model Calibration", 9th INTECOL International Wetlands Conference, Orlando, Florida, June 3-8.
53. Meselhe, E.A., Michot, B., Chen, C., Habib, E. (2011) "Use Of Radar-Rainfall Data for the Southwest Coastal Louisiana Feasibility Study: Regional Scale Hydrologic and Salinity Modeling and Management Scenario Analysis for Chenier Plain", *AGU Fall Meeting*, San Francisco, California, December 5-9, 2011.
54. Chen, C., Meselhe, E.A., Gaweesh, A., Michot, B., Waldon, M.G. (2011) "Hydrodynamic and Water Quality Modeling in South Florida, USA", *Coastal and Estuarine Research Federation 2011 Conference*, Daytona Beach, Florida, November 6-10, 2011.
55. Michot, B, Chen, C., Meselhe, E.A. (2011) "The Southwest Coastal Louisiana Feasibility Study: Regional Scale Hydrologic and Salinity Modeling and Management Scenario Analysis for the Chenier

- Plain”, *Coastal and Estuarine Research Federation 2011 Conference*, Daytona Beach, Florida, November 6-10, 2011.
56. Meselhe, E.A., Chen, C., Bagzir, H., Wang, H., Roth, W.B., Arceneaux, J.C., Waldon, M.G. (2011) “Near Zeroth Order Sulfate Disappearance Rate Estimated Using Models of the Arthur R. Marshall Loxahatchee National Wildlife Refuge”, *Annual Greater Everglades Mercury/Sulfur Workshop*, West Palm Beach, Florida, June 21-22.
 57. Meselhe, E.A., McCorquodale A.J., Ioannis G., and Allison M (2011), “MYRTLE GROVE DELTA BUILDING DIVERSION PROJECT” Geological Society of America (GSA) – 45th Annual Meeting, 27-29 March, 2011, New Orleans Louisiana.
 58. Ramirez, M. T., Allison, M. A., and Meselhe, E. A., 2011. Spatial and temporal variability of reach-scale morphodynamics in the lower Mississippi River, Coherent Flow Structures Meeting (poster session), Burnaby, BC.
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