

KAZI MD SADID

Research Scientist of Natural Systems Modeling, The Water Institute of the Gulf

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Education

M.S. in Civil Engineering, May 2013

The University of Louisiana, Lafayette, LA

B.S. in Water Resources Engineering, March 2009

Bangladesh University of Engineering and Technology, Dhaka, Bangladesh

Research Interests:

Hydrodynamics and sediment transport of coastal wetlands, estuarine and riverine systems; hydraulics and hydrologic science; computational hydraulics and fluid dynamics; Eco-hydrological modeling.

Professional Experience:

The Water Institute of the Gulf <ul style="list-style-type: none"><i>Research Scientist, Natural Systems Modeling Division</i>	2013-Present
Center for Louisiana Water Studies, University of Louisiana <ul style="list-style-type: none"><i>Research Assistant</i>	2011-2013
Institute of Water Modeling, Bangladesh <ul style="list-style-type: none"><i>Junior Engineer</i>	2009-2011

CURRENT RESEARCH PROJECTS

“Mississippi River Hydrodynamic and Delta Management Study”, **Research Scientist**. Sponsored by Coastal Protection and Restoration Authority (CPRA).

“FESD Type II: A Delta Dynamics Collaboratory”, **Research Assistant**. Sponsored by the National Science Foundation (NSF).

COMPLETED RESEARCH PROJECTS

“Lower Barataria Sediment Diversion Modeling and Data Collection”, **Research Associate**. Sponsored by Coastal Protection and Restoration Authority (CPRA).

“Lower Breton Sediment Diversion Modeling and Data Collection”, **Research Associate**.

Sponsored by Coastal Protection and Restoration Authority (CPRA).

“Basin-Wide Model Development for the LCA Mississippi River Hydrodynamic and Delta Management Study”, **Research Associate**. Sponsored by Coastal Protection and Restoration Authority (CPRA).

“RII Track 2 collaborative project: Research and Education Cyber infrastructure Investments to Develop the Coastal Hazards Collaboratory in the Northern Gulf Coast” **Research Assistant**. Sponsored by the National Science Foundation (NSF).

Hydrological and Morphological Study for River Training Works at the Left Bank of Padma River from Aurangabad to Kobutorkhola under Dhaka and Munshiganj District, Bangladesh.

Hydrological and Morphological Study for River Training Works at the Right Bank of Padma River for Rajbari Town Protection in Bangladesh.

Hydrological and Morphological Study for the Proposed Road Bridge on Gorai River at Kushtia sadar Upzilla under Kushtia District, Bangladesh.

Feasibility Study of Pagla Water Treatment Plant.

Hydrological and Morphological Study and Hydraulic Design for the Proposed Road Bridge at Baradaha Area under Gaibandha District, Bangladesh.

Knowledge and Innovation Support for ADB’s Water Financing Program- Field Based Research on the Impacts of Climate Change on Bangladesh River.

Morphological Analysis of Padma River in Connection with the Design of the Proposed Bridge at Mawa, Bangladesh.

AWARDS, HONORS

1. Technical/Merit Scholarship, 2004-05, 2005-06, 2006-07, 2007-08, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh.
2. Member of **Chi Epsilon**, the National Civil Engineering Honor Society.
3. Research assistantships, Center for Louisiana Water Studies, University of Louisiana.
4. First prize, Poster paper, 2012 Annual Science Meeting, Research and Education Cyber infrastructure Investments to Develop the Coastal Hazards Collaboratory in the Northern Gulf Coast (NG-CHC).

PROFESSIONAL MEMBERSHIPS

Member, American Society of Civil Engineers.

Member, American Geophysical Union.

Member, Association for the Science of Limnology and Oceanography (ASLO).

Member, Institute of Engineers Bangladesh.

PROFESSIONAL REGISTRATION

Engineer Intern, Louisiana, License#32011

TRAINING COURSES

Specialists’ Course on River Bank Protection, Asian Development Bank & Department of Water Resources Engineering, BUET, November-December, 2009.

Training on Hydro-Pro Software for Land and Hydrographic Surveying, Institute of Water Modeling, January, 2011

Conservation of Riverine Eco-system Under Changing Environment. Directorate of Continuing Education, BUET, April, 2011.

Training on MIKE FLOOD, The Water Institute of The Gulf, June, 2013.

PEER REVIEWED PUBLICATIONS

Meselhe, E.A., Sadid, K.M., Allison, M.A. (2016). Riverside morphological response to pulsed sediment diversions. *Geomorphology*. 270 (2016) 184–202.

CONFERENCE PROCEEDINGS AND PRESENTATIONS

1. 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.
2. Sadid, K., Meselhe, E.A., Khadka, A., Xing, F., (2015) “Parameter Sensitivity and Uncertainty Analysis of the Delta Morphodynamics”, Coastal and Estuarine Research Federation Biennial Meeting, Portland, Oregon.
3. Costanza, K., Meselhe, E.A., Khadka, A., Sadid, K.M., (2015). “LCA BUDMAT Sediment Enhancement Device: Numerical Modeling of SRED Placement Alternatives in West Bay Diversion”, 2015 ASCE Louisiana Section Spring Conference, Baton Rouge, Louisiana.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.

9. 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.
10. 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.
11. 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.
12. 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.
13. Gaweesh, A.M. and Sadid, K.M., (2012). “Local scale model of the Lower Mississippi River: Myrtle Grove and Bonnet Carre Spillway”, Poster Paper, 2012 Annual Science Meeting, Research and Education Cyber infrastructure Investments to Develop the Coastal Hazards Collaboratory in the Northern Gulf Coast (NG-CHC), New Orleans, Louisiana.

THESIS

Sadid, K.M. (2013). “Numerical modeling of Bonnet Carre Spillway as a large controlled diversion during the 2011 Mississippi River flood”, Thesis for the M.Sc. Degree in Civil Engineering, The University of Louisiana, Lafayette, May (147 pages). Supervised by Dr. Ehab Meselhe.

TECHNICAL REPORT

1. Meselhe, E.A., Sadid, K.M., Xing, F., Jung, H., Baustian, M.M., Smits, J.G., Maren, B.V., Sylvester, S.D., Visser, J.M., (2016) Mississippi River Hydrodynamic and Delta Management Study (MRHDMS): Assessment and Analysis of Alternatives. Prepared for Coastal Protection and Restoration Authority. The Water Institute of the Gulf.
2. Meselhe, E.A. & Sadid, K.M. (2015). Multidimensional Modeling: Local applications of Delft-3D Model, Louisiana Coastal Area Program- Mississippi River Hydrodynamic and Delta Management Study. Prepared for Coastal Protection and Restoration Authority and US Army Corps of Engineers-Engineering Research and Development Center. The Water Institute of the Gulf.
3. Meselhe, E.A.; Pereira, J.F.; Jung, H., Khadka, A. & Sadid, K.M. (2014). Mid-Barataria Sediment Diversion Report. Prepared for HDR and CPRA. The Water Institute of the Gulf.