

# Curriculum Vitae

## Sanjay Tewari, Ph.D.

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Google Scholar: <https://scholar.google.com/citations?user=iJEyjf8AAAAJ&hl=en>

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### 1. EDUCATION

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2011: PhD in Civil Engineering, Texas A&M University, College Station, Texas, USA.

2002: MS (M. Tech) in Chemical Engineering, Indian Institute of Technology, Roorkee, India.

2000: BS (BE) in Civil Engineering, S.V. National Institute of Technology, Surat, India.

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### 2. PROFESSIONAL EXPERIENCE

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#### 2. (A). ACADEMIC EXPERIENCE

2018-present: Assistant Teaching Professor - Civil, Architectural and Environmental Engineering, Missouri University of Science & Technology.

2020-2020: Visiting Faculty, Motilal Nehru National Institute of Technology (MNIT), Allahabad, India *through* Global Initiative of Academic Networks (GIAN) in Higher Education (*approved, TBS*)

2018-present: Adjunct Faculty, Cooperative Engineering Program, Missouri State University.

2019-2019: Summer Scholar/Faculty - College of Environment and Resources, Southwest University, Chongqing, China.

2012-2018: Assistant Professor - Civil Engineering and Construction Engineering Technology, Louisiana Tech University.

2012-2012: Senior Research Associate - Department of Civil and Environmental Engineering, Prairie View A&M University.

2007-2011: Graduate Assistant - Teaching/Research, Department of Civil Engineering, Texas A&M University.

2004-2005: Graduate Assistant - Research, Texas Transportation Institute, Texas A&M University.

2002-2002: Research Fellow "A" - Alternate Hydro-Energy Center, Indian Institute of Technology, Roorkee, India.

#### 2. (B). INDUSTRIAL/GOVERNMENT/PRIVATE ENTERPRISE EXPERIENCE

2020-present: Lead Hydrology, Hydrogeology & Climate Risks, AARC Consultants/Group.

2012-2012: Water Treatment Operations and Special Projects, City of Marlin, TX.

- 2006-2006: Engineering Intern, SIRRUS Engineers Inc., Houston, TX.
- 2005-2005: Assistant Project Manager-Intern, Texas Commission on Environmental Quality, Austin, TX.

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### 3. SCHOLARSHIP

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#### 3. (A). PEER-REVIEWED JOURNAL/CONFERENCE ARTICLES

- 1) **Tewari, S.**, Manning\*, F., and Palmer, W., “Application of GIS/geomatics to areas affected by subsiding land and rising sea: Simulation of risks and identification of at-risk infrastructure”, *Utility Engineering & Surveying Institute Pipelines 2019 Conference*, Nashville, TN, July 21-24, **2019**. <https://doi.org/10.1061/9780784482490.067>
- 2) **Tewari, S.**, “Problem-based learning as a pedagogy for individual students - quantifying the long-term effects of land subsidence and rising sea levels in coastal areas for greater student engagement”, *ASEE 126<sup>th</sup> Annual Conference & Exposition*, Tampa, FL, June 15-19, **2019**. <https://peer.asee.org/33194>
- 3) **Tewari, S.**, “Utility of reading assignments in environmental engineering education for effective learning and greater student engagement in an era of innovative pedagogy and emerging technologies”, *ASEE 126<sup>th</sup> Annual Conference & Exposition*, Tampa, FL, June 15-19, **2019**. <https://peer.asee.org/33524>
- 4) Bereyso\*, E., Tummala\*, C. M., and **Tewari, S.**, “Going underground for source water protection – Evaluating lab-scale electrokinetic barriers against salt water intrusion”, *Proceedings of the World Environmental & Water Resources Congress 2019*, 133-141, **2019**. <https://doi.org/10.1061/9780784482346.013>
- 5) Ahmed\*, M. A., and **Tewari, S.**, “Performance evaluation of asymmetric capacitive deionization with carbon aerogel based fiber-paper electrodes: Effect of gold deposition vs acid treatment”, *Journal of Electroanalytical Chemistry*, Vol. 835, 30-39, **2019**. <https://doi.org/10.1016/j.jelechem.2019.01.006>
- 6) **Tewari, S.**, Manning\*, F., and Palmer, W., “Sea level rise and land subsidence in Coastal Louisiana: Forecasting, mapping, and identification of at-risk transportation infrastructure”, *Proceedings of 98<sup>th</sup> Annual Meeting of Transportation Research Board*, Washington D.C., January 13-19, **2019**. (paper number: 19-04682)  
[https://scholarsmine.mst.edu/cgi/viewcontent.cgi?article=2540&context=civarc\\_enveng\\_fac\\_work](https://scholarsmine.mst.edu/cgi/viewcontent.cgi?article=2540&context=civarc_enveng_fac_work)
- 7) **Tewari, S.**, Ahmed\*, M. A., and Tummala\*, C. M., “Generating interest among undergraduates towards research in environmental engineering by incorporating novel desalination technology based hands-on laboratory assignments”, *Proceedings of ASEE 125<sup>th</sup> Annual Conference & Exposition*, Salt Lake City, UT, June 24-27, **2018**. <https://peer.asee.org/30558>

- 8) Ahmed\*, M. A., and **Tewari, S.**, “Performance of carbon aerogel/fiber paper as capacitive deionization electrodes under variable operating conditions”, *Proceedings of the World Environmental & Water Resources Congress 2018*, 22-29, **2018**.  
<https://doi.org/10.1061/9780784481431.003>
- 9) Ahmed\*, M. A., and **Tewari, S.**, “Capacitive deionization: Concepts, processes, materials, and state of the technology”, *Journal of Electroanalytical Chemistry*, Vol. 813, 178-192, **2018**. <https://doi.org/10.1016/j.jelechem.2018.02.024>
- 10) Tummala\*, C. M., and **Tewari, S.**, “Electro-kinetic remediation processes - A brief overview and selected applications”, *MOJ Civil Engineering*, Vol. 4, No. 2, 00097, **2018**.  
<https://doi.org/10.15406/mojce.2018.04.00097>
- 11) Ahmed\*, M.A., Saiek, Z., Tamanna, M., Chowdhury, O.R., and **Tewari, S.**, “Sustainable wastewater management for underdeveloped communities - A hands-on method for qualitative and quantitative analysis of greywater”, *Int. J. Environment and Sustainable Development*, Vol. 17, No. 1, 93-109, **2018**. <http://dx.doi.org/10.1504/IJESD.2018.10010115>
- 12) **Tewari, S.**, and Manning\*, F., “Spatial delineation of corrosion zones for metal culverts based on Coastal Louisiana soil characteristics”, *Proceedings of 97<sup>th</sup> Annual Meeting of Transportation Research Board*, Washington D.C., January 7-11, **2018**.  
<https://trid.trb.org/view/1495804>
- 13) **Tewari, S.**, and Manning\*, F., “Identifying corrosion zones in coastal regions for metal pipes - A GIS approach”, *Proceedings of Pipelines 2017: Planning and Design*, Phoenix, AZ, 618-625, **2017**. <https://doi.org/10.1061/9780784480885.057>
- 14) Ahmed\*, M. A., and **Tewari, S.**, “Effect of pretreatment of carbon based electrodes in their adsorption performance in capacitive deionization”, *Proceedings of the World Environmental & Water Resources Congress 2017*, 221-227, **2017**.  
<https://doi.org/10.1061/9780784480595.021>
- 15) Ahmed\*, M., and **Tewari, S.**, “Preliminary investigation on the optimization of adsorption/desorption performance and operating parameters of capacitive deionization with carbon aerogel as electrodes and the effect of surface treatment with TiO<sub>2</sub>/ZnO”, *Proceedings of the World Environmental and Water Resources Congress 2016*, 213-220, **2016**. <https://doi.org/10.1061/9780784479841.024>
- 16) **Tewari, S.**, “Environmental engineering laboratory development to promote active and hands-on learning”, *Second Mid Years Engineering Experience Conference Slump to Jump!*, Texas A&M University, College Station, TX, March 30 – April 1, **2016**.  
<http://myeec.org/history/2016/index.htm>
- 17) Wasiuddin, N., Orr, M. K., and **Tewari, S.**, “Traffic study using a video camera and an image processing software: Lessons learned”, *Second Mid Years Engineering Experience Conference Slump to Jump!*, Texas A&M University, College Station, TX, March 30 - April 1, **2016**. <http://myeec.org/history/2016/index.htm>

- 18) Orr, M. K., **Tewari, S.**, Hall, D. E., and Pumphrey, N. D., “Work in Progress - Does a technology-rich transportation engineering experience increase interest in civil engineering?”, *7th Annual First Year Engineering Experience Conference - Enhancing the First Year of Engineering Education*, Virginia Tech University, Roanoke/Blacksburg, VA, August 2-4, **2015**. <http://fyee.asee.org/FYEE2015/index.htm>
- 19) **Tewari, S.**, “Regeneration of carbon aerogel exhausted in water purification”, Ph.D. dissertation, Texas A&M University, **2011**.  
<http://oaktrust.library.tamu.edu/handle/1969.1/ETD-TAMU-2011-12-10562?show=full>
- 20) **Tewari, S.**, and Batchelor, B., “Regeneration of exhausted carbon nano foam used in desalination of brackish water”, *Proceedings of the 3<sup>rd</sup> Civil Engineering Student Research Symposium*, Texas A&M University, College Station, TX, November 9, **2010**.
- 21) Mall, I. D., **Tewari, S.**, and Singh, N., “Use of carbon waste generated from fertilizer plants in wastewater treatment”, *Proceedings of 18<sup>th</sup> International Conference on Solid Waste Technology and Management*, 311-320, **2003**.  
[http://scholarsmine.mst.edu/cgi/viewcontent.cgi?article=2537&context=civarc\\_enveng\\_facwork](http://scholarsmine.mst.edu/cgi/viewcontent.cgi?article=2537&context=civarc_enveng_facwork)
- 22) Mall, I. D., **Tewari, S.**, Singh, N., and Mishra, I. M., “Utilization of bagasse fly ash and carbon waste from fertilizer plant for treatment of pyridine and 3-picoline bearing wastewater”, *Proceedings of 18<sup>th</sup> International Conference on Solid Waste Technology and Management*, 1273-1282, **2003**.  
[http://scholarsmine.mst.edu/cgi/viewcontent.cgi?article=2538&context=civarc\\_enveng\\_facwork](http://scholarsmine.mst.edu/cgi/viewcontent.cgi?article=2538&context=civarc_enveng_facwork)
- 23) **Tewari, S.**, “Studies on use of carbon slurry, a waste from fertilizer plant, in treatment of wastewater”, M. Tech. Thesis, Indian Institute of Technology Roorkee, **2002**.  
<http://shodhbhagirathi.iitr.ac.in:8081/jspui/image/pdf/web/viewer.html?file=/jspui/bitstream/123456789/6746/1/CHD%20G10705.pdf>

\* denotes student(s) under my advisement

### 3. (B). CONFERENCE PRESENTATIONS/POSTERS

- 1) Bereyso\*, E., Tummala\*, C. M., and **Tewari, S.**, “Going underground for source water protection – Evaluating lab-scale electrokinetic barriers against salt water intrusion”, *World Environmental & Water Resources Congress*, Pittsburgh, PA, May 19-23, **2019**.  
<https://www.eventscribe.com/2019/ASCE-EWRI/fsPopup.asp?efp=S0JCUVIUS083Mzcx&PresentationID=482249&rnd=0.5743061&mode=presinfo>
- 2) Bereyso\*, E., Thorsen\*, N., and **Tewari, S.**, “Comparing the effect of depths of dual-media gravity filters on water clarity and flowrates”, *CNAS Undergraduate Research Day*, Missouri State University, Springfield, MO, May 3, **2019**.  
[https://science.missouristate.edu/assets/science/AbstractsCNAS\\_UGRD\\_2019.pdf](https://science.missouristate.edu/assets/science/AbstractsCNAS_UGRD_2019.pdf)

- 3) Bereyso\*, E., Thorsen\*, N., and **Tewari, S.**, “Exploring variation in water clarity and flow rate of lab-scale sand filters”, *Missouri Academy of Science*, Northwest Missouri State University, Maryville, MO, April 12-13, **2019**. <https://www.moacademysci.org/wp-content/uploads/2019/04/Overall-MAS-2019-Meeting-Abstracts.pdf>
- 4) **Tewari, S.**, Manning\*, F., and Palmer, W., “Sea level rise and land subsidence in Coastal Louisiana: Forecasting, mapping, and identification of at-risk transportation infrastructure”, *Proceedings of 98<sup>th</sup> Annual Meeting of Transportation Research Board*, Washington D.C., January 13-19, **2019**. (paper number: 19-04682) [https://annualmeeting.mytrb.org/FileUpload/Download?fileName=TRBWS08%5cAMOnline%5c2019+AM+Presentations%5c7115%5cTRB\\_v2.pdf](https://annualmeeting.mytrb.org/FileUpload/Download?fileName=TRBWS08%5cAMOnline%5c2019+AM+Presentations%5c7115%5cTRB_v2.pdf)
- 5) **Tewari, S.**, and Ahmed\*, M. A., Tummala\*, C. M., Elkins\*, B., “Removal of disinfection by-products from water using a hybrid bio-filter made of sand and low-cost activated carbon derived from coconut shells”, *World Environmental & Water Resources Congress*, Minneapolis, MN, June 3-7, **2018**.
- 6) Ahmed\*, M. A., and **Tewari, S.**, “Performance of carbon aerogel/fiber paper as capacitive deionization electrodes under variable operating conditions”, *World Environmental & Water Resources Congress*, Minneapolis, MN, June 3-7, **2018**.
- 7) Tummala\*, C. M., and **Tewari, S.**, “Effects of variability of electrode materials and configurations on performance of electro-kinetic barriers against sea-water intrusion”, *World Environmental & Water Resources Congress*, Minneapolis, MN, June 3-7, **2018**.
- 8) Tummala\*, C. M., and **Tewari, S.**, “Application of electro-kinetic barriers against saltwater intrusion”, *2018 State of the Coast Conference*, New Orleans, LA, May 30-June 1, **2018**.
- 9) Ahmed\*, M. A., and **Tewari, S.**, “Desalination with capacitive deionization under various operating conditions and electrode configurations using carbon fiber/paper electrodes”, *255<sup>th</sup> American Chemical Society National Meeting*, New Orleans, LA, March 18-22, **2018**.
- 10) Manning\*, F., and **Tewari, S.**, “Assessing the relative sea-level change and its impact on Coastal Louisiana’s levee infrastructure using geographical information systems”, *92<sup>nd</sup> Annual Meeting of Louisiana Academy of Science*, Louisiana State University, Alexandria, LA, March 10, **2018**.  
<http://www.laacademy.org/docs/LouisianaScientistVol7No2.pdf>
- 11) Ahmed\*, M.A., and **Tewari, S.**, “Effect of acid treatment and metal coating on the performance of carbon aerogel/fiber paper electrodes in capacitive deionization”, *92<sup>nd</sup> Annual Meeting of Louisiana Academy of Science*, Louisiana State University, Alexandria, LA, March 10, **2018**.  
<http://www.laacademy.org/docs/LouisianaScientistVol7No2.pdf>
- 12) Tummala\*, C. M., and **Tewari, S.**, “Developing laboratory-based experimental setups to simulate electro-kinetic fence for salt water intrusion prevention in coastal areas”, *92<sup>nd</sup> Annual Meeting of Louisiana Academy of Science*, Louisiana State University,

Alexandria, LA, March 10, 2018.

<http://www.laacademy.org/docs/LouisianaScientistVol7No2.pdf>

- 13) Elkins\*, B., Tummala, M., Ahmed, M. A., and **Tewari, S.**, “Investigating efficiency of a do-it-yourself biosand filter for removal of disinfection byproducts from water”, 92nd Annual Meeting of Louisiana Academy of Science, Louisiana State University, Alexandria, LA, March 10, 2018. <http://www.laacademy.org/docs/LouisianaScientistVol7No2.pdf>
- 14) **Tewari, S.**, Palmer, W., and Manning\*, F., “Identification of transportation infrastructure at risk due to sea-level rise and subsidence of land in Coastal Louisiana”, Final Paper Number: GC23C-1086 presented at the Fall Meeting, *American Geophysical Union*, New Orleans, LA, December 11-15, 2017. <http://adsabs.harvard.edu/abs/2017AGUFMGC23C1086T>
- 15) Manning\*, F., and **Tewari, S.**, “Delineating corrosion zones for metal pipes using U.S. Natural Resources Conservation Service Soil Data”, *91<sup>st</sup> Annual Meeting of Louisiana Academy of Science*, Louisiana Tech University, Ruston, LA, March 11, 2017. <http://www.laacademy.org/docs/LouisianaScientistVol7No1.pdf>
- 16) Ahmed\*, M. A., and **Tewari, S.**, “Performance of carbon based electrodes - acetone and nitric acid pretreatment in capacitive deionization”, *91<sup>st</sup> Annual Meeting of Louisiana Academy of Science*, Louisiana Tech University, Ruston, LA, March 11, 2017. <http://www.laacademy.org/docs/LouisianaScientistVol7No1.pdf>
- 17) **Tewari, S.**, and Ahmed\*, M., “Emerging water contaminants: Assessment of sources, associated risk and options for treatment methods”, *5<sup>th</sup> IAJC/ISAM Joint International Conference*, Orlando, FL, November 6-8, 2016.
- 18) Ahmed\*, M. A., and **Tewari, S.**, “Carbon aerogel in capacitive deionization under variable operating conditions and surface modifications with metal oxides”, *2016 Annual Conference & Exposition of the American Water Works Association*, Chicago, IL, June 19-22, 2016.
- 19) Campos\*, U., and **Tewari, S.**, “Performance evaluation of DIY gravity-fed-multistage water filter for individual households and its comparison with commercially available water filter”, *90<sup>th</sup> Annual Meeting of Louisiana Academy of Sciences*, Louisiana State University-Alexandria, LA, April 23, 2016. <http://www.laacademy.org/docs/LouisianaScientistVol6No2.pdf>
- 20) Joseph\*, R., Ahmed\*, M. A., and **Tewari, S.**, “Material selection in the design of capacitive deionization cell and effect of copper wire corrosion”, *University of Louisiana System Academic Summit*, Nicholls State University, Thibodaux, LA, April 14-15, 2016.
- 21) Ahmed\*, M. A., and **Tewari, S.**, “Capacitive deionization: An emerging technology for ion removal”, *Annual Conference of Southwest Section of American Water Works Association*, Shreveport, LA, October 4-6, 2015.
- 22) Chen\*, Y., and **Tewari, S.**, “Comparative performance evaluation of carbon waste in treating industrial wastewater loaded with organic pollutants”, *9<sup>th</sup> Annual Louisiana Groundwater, Water Resources & Environmental Symposia Louisiana State University*, Baton Rouge, LA, April 16, 2015.

- 23) Ahmed\*, M. A., and **Tewari, S.**, “Adsorption-desorption enhancement in capacitive deionization using membranes, resins, polymers and electrode modification”, *9<sup>th</sup> Annual Louisiana Groundwater, Water Resources & Environmental Symposia*, Louisiana State University, Baton Rouge, LA, April 16, **2015**.
- 24) Ahmed\*, M. A., and Tewari, S., “Performance and regeneration of unmodified and modified carbon based electrodes in capacitive deionization”, 89<sup>th</sup> Annual Meeting of Louisiana Academy of Sciences, Nicholls State University, Thibodaux, LA, March 14, 2015. <http://www.laacademy.org/docs/LouisianaScientistVol5ANo1.pdf>
- 25) Chen\*, Y., and **Tewari, S.**, “Comparative performance evaluation of fly ash in treating industrial wastewater”, *89<sup>th</sup> Annual Meeting of Louisiana Academy of Sciences*, Nicholls State University, Thibodaux, LA. March 14, **2015**.  
<http://www.laacademy.org/docs/LouisianaScientistVol5ANo1.pdf>
- 26) **Tewari, S.**, and Batchelor, B., “Understanding reuse and regeneration of carbon nano foam exhausted in capacitive desalination of brackish water”, *Annual Conference & Exposition of American Water Works Association*, Dallas, TX, June 10-14, **2012**.
- 27) **Tewari, S.**, and Batchelor, B., “Capacitive desalination & purification of water: A focus on regeneration of exhausted carbon nanofoam”, *Water Quality Technology Conference and Exposition of American Water Works Association*, Phoenix, AZ, November 13-17, **2011**.
- 28) **Tewari, S.**, and Batchelor, B., “Electro-sorption of metal ions on carbon nano foam for water purification/ desalination: A focus on regeneration of exhausted carbon nano foam”, *Texas Water 2011*, Fort Worth, TX, April 5-8, **2011**.
- 29) **Tewari, S.**, and Batchelor, B., “Regeneration of carbon nano foam exhausted in capacitive desalination”, *Environmental Challenges and Innovations Conference: Gulf Coast 2011*, Houston, TX, February 10, **2011**.

### **3. (C). RECENT RESEARCH GRANTS (FUNDING AGENCY, GRANT/PROJECT TITLE, FUNDING AMOUNT, ROLE, DURATION)**

- 1) U. S. Environmental Protection Agency, Pollution Prevention (P2) Grant - *Pollution Prevention Technical Assistance and Training*, **\$55,295**, **Co-Program Manager**, 2020 - 2022.
- 2) Southern Plains Transportation Center (U.S. Department of Transportation Region 6 Regional University Transportation Center), *Combined effect of sea-level rise and coastal land subsidence – Identification of critical transportation infrastructure at-risk in coastal SPTC region*, **\$25,400**, **Principal Investigator**, October 2017 - May 2018.
- 3) Coastal Protection and Restoration Authority through the RESTORE Act Center of Excellence for Louisiana, *Protecting subsurface freshwater using electrokinetic barriers against seawater intrusion in coastal Louisiana*, **\$57,519**, **Principal Investigator**, September 2017 - August 2018.

- 4) Louisiana Department of Transportation and Development through Louisiana Transportation Research Center - Transportation Innovation for Research Exploration (TIRE) Award, *Identification of Transportation Infrastructure at Risk due to Sea Level Rise and Subsidence of Land in Coastal Louisiana*, \$28,345, **Principal Investigator**, July 2017 - June 2018.
- 5) Louisiana Contractors' Educational Trust Fund, *Enhancement of Surveying Laboratory of Louisiana Tech University*, \$131,600, **Co-Principal Investigator**, 2016-2017.
- 6) College of Engineering and Science, Louisiana Tech University through Innovative Education Grant, *Augmented Reality Sandbox for Hands-On Learning Environment Using 3D Visualization*, \$3,956, **Principal Investigator**, March 2017.
- 7) Louisiana Department of Transportation and Development through Louisiana Transportation Research Center, *Corrosion Map for Metal Pipes in Coastal Louisiana*, \$49,999, **Principal Investigator**, January 2016 - April 2017.
- 8) NSF EPSCoR and Louisiana Board of Regents - Opportunities for Partnerships in Technology with Industry (OPT-IN) Award, *Capacitive Deionization based Treatment and Metal Recovery from Lead-Acid Battery Recycling Wastewater Stream*, \$15,000 + \$15,000, **Principal Investigator**, January 2015 - December 2015.
- 9) Southern Plains Transportation Center (U.S. Department of Transportation Region 6 Regional University Transportation Center), *Technology-Rich Transportation Engineering Projects*, \$131,627, **Principal Investigator**, September 2014 - October 2016.

### 3. (D). TECHNICAL REPORTS

- 1) Combined Effect of Sea-Level Rise and Coastal Land Subsidence – Identification of Critical Transportation Infrastructure At-Risk In Coastal SPTC Region, Part 1 – Coastal Louisiana, Southern Plains Transportation Center, a U.S. Department of Transportation Region 6 Regional University Transportation Center, **2019**. <https://trid.trb.org/view/1676603>
- 2) Combined Effect of Sea-Level Rise and Coastal Land Subsidence – Identification of Critical Transportation Infrastructure At-Risk In Coastal SPTC Region, Part 2 – Coastal Texas, Southern Plains Transportation Center, a U.S. Department of Transportation Region 6 Regional University Transportation Center, **2019**. <https://trid.trb.org/view/1676604>
- 3) Identification of Transportation Infrastructure at Risk due to Sea Level Rise and Subsidence of Land in Coastal Louisiana, Louisiana Transportation Research Center and Louisiana Department of Transportation and Development, **2018**. [https://www.ltrc.lsu.edu/pdf/2019/18\\_5TIRE.pdf](https://www.ltrc.lsu.edu/pdf/2019/18_5TIRE.pdf)
- 4) Corrosion map for metal pipes in Coastal Louisiana”, *Final Report 585, Louisiana Transportation Research Center, LTRC Project No. 16-5GT, SIO No. DOTLT1000094*, December **2017**. [http://www.ltrc.lsu.edu/pdf/2017/FR\\_585.pdf](http://www.ltrc.lsu.edu/pdf/2017/FR_585.pdf)



- 5) Technology-rich Transportation Engineering Projects, Southern Plains Transportation Center, a U.S. Department of Transportation Region 6 Regional University Transportation Center, **2016**. <https://rosap.nrl.bts.gov/view/dot/36984>
- 6) Capacitive Deionization based Treatment and Metal Recovery from Lead-Acid Battery Recycling Wastewater Stream, NSF EPSCoR and Louisiana Board of Regents, **2015**.
- 7) Carbon Aerogel Electrodes: Absorption-Desorption and Regeneration Study for Purification of Water, Texas Water Resources Institute, **2006**.  
[http://twri.tamu.edu/docs/funding/usgs/2005-06/tewari\\_report.pdf](http://twri.tamu.edu/docs/funding/usgs/2005-06/tewari_report.pdf)

### 3. (E). INVITED TALKS/SEMINARS (TALK/SEMINAR TITLE, EVENT, PLACE, DATE)

- 1) Overview of Academic Job Application Process, Association of Environmental Engineering and Science Professors (AEESP) Future Faculty Workshop 2020, virtual, August 12, **2020**.
- 2) Desalination, Concentrate Management, and Pedagogy, All India Council for Technical Education sponsored virtual Faculty Development Program – “*Next Generation of Chemical Manufacturing & Waste Management*”, Institute of Engineering and Technology, Lucknow, India, July 29 – August 02, **2020**.
- 3) Application of Geo Informatics to Assess and Monitor Long-term Risks to Infrastructure, All India Council for Technical Education sponsored virtual Short Term Training Program - “*Structural Health Monitoring and Seismic Protection of Structure and Infrastructure Systems (Phase-I)*”, Bannari Amman Institute of Technology, Coimbatore, India, July 6-11, **2020**.
- 4) Rising Sea and Sinking Land in Coastal Areas: Identification of Critical Transportation Infrastructure, [\*Council of University Transportation Centers\*](#), University of Oklahoma, Norman, OK, June 25, **2019**.
- 5) Capacitive/Electrokinetic Processes for Water Purification and Protection of Groundwater, [\*Center for Research in Energy and Environment\*](#), Missouri University of Science & Technology, Rolla, MO, November 28, **2018**.
- 6) Corrosion of Metal Pipes in Coastal Regions - A GIS Approach in Pipe Material Selection, *2016 Southeast Symposium on Contemporary Engineering Topics (Symposium Track B: Civil, Coastal, and Environmental Engineering)*, Jackson State University, Jackson, MS, August 26, **2016**.
- 7) Application of Fly Ash in Removal of Metal Ions from Wastewater, *11<sup>th</sup> Annual Practical Short Course - “Water Technologies: Process & Reuse Water, Wastewater & Desalination*, Texas A&M University, College Station, TX, November 15-17, **2015**.
- 8) Advances in Capacitive Deionization and Water purification/Desalination, *10<sup>th</sup> Annual Practical Short Course - “Water Technologies: Process & Reuse Water, Wastewater & Desalination*, Texas A&M University, College Station, TX, October 15-17, **2014**.

- 9) Desalination using Capacitive Deionization, *9<sup>th</sup> Annual Practical Short Course - "Water Issues & Technologies: Process Water, Wastewater, and Desalination"*, Texas A&M University, College Station, TX, October 29-29, **2013**.

### **3. (F). OTHER SCHOLARSHIP – CURRENT/PAST PROJECTS (IN VARIOUS CAPACITIES)**

- 1) Senior Hydrology/Climate-Risk Advisor at AARC Group (Environmental/Consultants) for All-Hazards Risk & Resilience projects: Rancho California Water District, Western Municipal Water District CA, Sweetwater Authority CA, City of Santa Clara CA, City of Fresno CA, City of Wichita KS, City of Orem UT, and Brownsville Public Utilities TX. 2019-present.
- 2) Engineering projects for the residential summer program of Roy G. Perry College of Engineering Enhancement Institute, Prairie View A&M University, Prairie View, Texas, 2012-2012.
- 3) Environmental and civil engineering laboratory projects at Summer Transportation Institute (STI) Program and STI Scholars Program, Prairie View A&M University, Prairie View, Texas, 2012-2012.
- 4) Transportation Workforce Development: Sustaining and Expanding High School Outreach Programs and Multi-agency Partnerships, University Transportation Center for Mobility, Texas Transportation Institute, Prairie View, Texas, 2012-2012.
- 5) Regeneration of Exhausted Carbon Nanofoam Material in Water Desalination/Purification, Zachry Department of Civil Engineering, Texas A&M University, College Station, TX, 2006-2011.
- 6) Municipal Separate Storm Sewer Systems (MS4) for Pearland and Sugarland; Bridge Scour Analysis for highway 610; and Culvert Analysis for FM 1774, SIRRUS Engineers Inc., Houston, TX, 2006-2006.
- 7) Carbon Aerogel Electrodes: Adsorption-Desorption and Regeneration Study for Purification of Water, Texas Water Resources Institute, College Station, TX, 2005-2006.
- 8) Superfund Site Discovery and Assessment Database preparation in MS Access and its GIS application, Texas Commission on Environmental Quality, Austin, TX, 2005-2005.
- 9) Effect of Magnetic Field on E-Coli Present in Wastewater, Texas A&M University, College Station, TX, 2003-2003.
- 10) Detailed Project Report for Conservation and Management Plan of Four Lakes in Nainital District, Sponsored by Ministry of Environment and Forest, Government of India, Alternate Hydro Energy Center, Indian Institute of Technology Roorkee, India, 2002-2002.
- 11) Use of Carbon Waste from Fertilizer Industry in Treatment of Wastewater, Department of Chemical Engineering, Indian Institute of Technology Roorkee, India, 2001-2002.

### **3. (G). SCHOLARLY ACTIVITIES AT INTERNATIONAL, FEDERAL, AND STATE LEVEL AS TECHNICAL SUBJECT AREA EXPERT**

#### **1) As a panel member on Federal/State funding agency programs**

- EPA SBIR Phase I Proposal Review Panel for Clean and Safe Water, 2018.
- NSF Proposal Review Panel for Engineering Directorate's Division of Industrial Innovation and Partnerships, 2017.

#### **2) As an editorial review board member**

- American Journal of Environmental Science and Engineering, 2019-2021
- Civil Engineering Journal, 2016-present.
- International Association of Journals and Conferences, 2014-present.
- International Journal of Engineering Research & Innovation, 2014-present.
- Technology Interface International Journal, 2014-present.

#### **3) As a mail-reviewer for International/Federal/State/Private funding agency programs**

- The Israel Science Foundation, Personal Research Grants, 2016.
- National Competitive Grants Program for U.S. Geological Survey and National Institutes for Water Resources, 2016.
- Competitive Grants Program of South Carolina Water Resources, 2015.
- South Carolina Sea Grant Consortium, 2015.
- Research and Education Awards Program, South Carolina EPSCoR/IDeA for NASA, 2015.
- South Carolina NASA EPSCoR Research Grant Program, 2015.

#### **4) As a session chair/moderator in a national/international conference**

- Seminar moderator for Overview of Academic Job Application Process, *Association of Environmental Engineering and Science Professors (AEESP) Future Faculty Workshop 2020, virtual*, August 12, **2020**.
- Session Moderator for Factors Influencing Curriculum Development: International Division Technical Session 4, *ASEE 127<sup>th</sup> Annual Conference & Exposition (virtual)*, June 22-26, **2020**.
- Session Moderator for Survey and Eminent Domain, Session: Utility Engineering and Surveying, UESI Pipelines 2019 Conference, Nashville, TN, July 21-24, **2019**.
- Session Moderator for - Environmental Division Technical Session (T425), *ASEE 126<sup>th</sup> Annual Conference & Exposition*, Tampa, FL, June 15-19, **2019**. (ID: 11623)
- Session Moderator: GIS and Alternative Project Delivery, Track: Survey/Geomatics & Utility Risk Management, Pipelines 2017: Planning and Design, Phoenix, AZ, August 6-9, **2017**.

- Session Chair - Wastewater and Properties of Fluids (ENG 207), 5<sup>th</sup> IAJC/ISAM Joint International Conference, Orlando, FL, November 6-8, 2016.

**5) As an invited external reviewer of Ph.D. dissertation (international subject-matter expert) – Dissertation, University, Year**

- Modified Solar Still for the Production of Potable Water, Dr. APJ Abdul Kalam Technical University, Lucknow, India, 2020

**6) As a reviewer for technical journals and conferences**

- Environmental Science & Technology (Impact Factor: 7.149).
- Desalination (Impact Factor: 7.098).
- Chemosphere Journal (Impact Factor: 5.778).
- Journal of Energy Institute (Impact Factor: 3.774).
- Sustainable Energy Technologies and Assessments (Impact Factor: 3.427).
- MDPI Environments (Impact Factor: 3.176).
- Journal of Water Process Engineering (Impact Factor: 3.173).
- Journal of Electroanalytical Chemistry (Impact Factor: 3.218).
- Royal Society of Chemistry Advances (Impact factor: 3.049).
- MDPI Water - Wastewater Treatment and Reuse Section (Impact Factor: 2.544)
- Sustainability (Impact Factor: 2.075).
- Journal of Food Process Engineering (Impact Factor: 1.955).
- Journal of Environmental Engineering (Impact Factor: 1.541).
- Asia-Pacific Journal of Chemical Engineering (Impact Factor: 1.396).
- Technology Interface International Journal (Impact Factor 1.025).
- International Journal of Environment and Sustainable Development.
- International Journal of Environmental Technology and Management.
- International Journal of Engineering Research and Innovation
- Journal of Environmental Quality Management
- ASEE 126<sup>th</sup> Annual Conference & Exposition, (Divisions: Civil Engineering, Environmental Engineering, Construction Engineering, Ocean and Marine Engineering), Tampa, FL, June 15-19, 2019
- UESI/ASCE Pipelines 2019: Pipeline Engineering – Concepts in Harmony, Nashville, Tennessee, July 21-24, 2019.
- ASEE 125<sup>th</sup> Annual Conference & Exposition, (Divisions: Civil Engineering, Environmental Engineering, Construction Engineering), Salt Lake City, June 24-27, 2018.

- UESI/ASCE Pipelines 2018: Revitalizing Global Underground Utility Infrastructure, Toronto, Canada, July 15-18, 2018.
- UESI/ASCE Pipelines 2017: Planning and Design, Phoenix, Arizona, August 6-9, 2017.
- 5<sup>th</sup> IAJC/ISAM Joint International Conference, Orlando, Florida, November 6-8, 2016.
- Second Mid Years Engineering Experience Conference Slump to Jump! Texas A&M University, College Station, TX, March 30 - April 1, 2016.
- 7<sup>th</sup> Annual First Year Engineering Experience Conference, Enhancing the First Year of Engineering Education, Virginia Tech, Roanoke/Blacksburg, VA, August 2-4, 2015.

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#### 4. TEACHING

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##### 4. (A). MISSOURI UNIVERSITY OF SCIENCE & TECHNOLOGY (FULLTIME APPOINTMENT, 2018-PRESENT)

CE 5360	Water Resources and Wastewater Engineering
CE 5001	Water Treatment Challenges: Desalination, Metals, and Water Reuse
CE 4097	Senior Design Project
CE 3615	Water and Wastewater Engineering
CE 3330	Engineering Fluid Mechanics
CE 2601	Fundamentals of Environmental Engineering & Science (Lectures + Labs)
CE 2401	Fundamentals of Surveying
ME 2350	Engineering Mechanics – Dynamics

##### 4. (B). MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY, ALLAHABAD, INDIA (INVITED VIA GLOBAL INITIATIVE OF ACADEMIC NETWORKS, 2020-2020)

Course	Emerging and Sustainable Technologies Complementing Conventional Water/Wastewater Treatments ( <i>scheduled</i> )
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##### 4. (C). SOUTHWEST UNIVERSITY, CHONGQING, CHINA (INVITED VIA GLOBAL IMMERSION PROGRAM, 2019-2019)

Course	Water and Wastewater Engineering
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##### 4. (D). LOUISIANA TECH UNIVERSITY (2012-2018)

CVEN 254	Plane Surveying (Lectures + Labs)
CVEN 310	Water Resources I (Lectures)
CVEN 314	Environmental Engineering (Lectures + Labs)
CVEN 357	Engineering and Construction Surveying (Lectures + Labs)
MEMT 313	Elementary Fluid Mechanics (Labs)

#### 4. (E). TEXAS A&M UNIVERSITY (2007-2011)

CVEN 303 Civil Engineering Measurement (Labs)

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### 5. PROFESSIONAL MEMBERSHIP AND INVOLVEMENT

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- 1) American Society of Civil Engineers (ASCE)
  - Blue Ribbon Panel for Land Subsidence and Managed Aquifer Recharge Committees, 2019-present.
  - Member, [Committee on Water Desalination and Reuse](#), 2018-present.
  - Member, [Technical Sub-committee on Development of Guidelines on Concentrate Management in Inland Desalination Projects](#), 2019-present
  - Member, [Technical Sub-committee on Development of Pre-Standard on Case Studies for Concentrate](#), 2019-present
  - Member, [Committee on Water Pollution Engineering](#) (formerly Wastewater Engineering Technical Committee), 2018-present.
  - Member, [Committee on Student Members](#), 2018-2021.
- 2) American Society of Engineering Education (ASEE)
  - Executive Member (Education Representative), [Ocean, and Marine Engineering Division](#)
  - Member, [P12 Divisional Representative Committee](#) on PreK-12 Engineering Education, representing Environmental Engineering Division, 2018-present.
  - Member, Distinguish Lecture Subcommittee of Pre-college Engineering Education Division, 2019-present.
- 3) Association of Environmental Engineering and Science Professors (AEESP)
  - Vice-Secretary, [Student Services Committee](#), 2020-present.
  - Member, [Student Services Committee](#), 2018-present.
- 4) American Chemical Society
  - Chair, Undergraduate Student Awards Subcommittee, Division of Environmental Chemistry, American Chemical Society (ACS), 2019-present
- 5) Missouri Society of Professional Engineers (MSPE)
  - Director – Ozark Chapter, 2019-present.

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### 6. HONORS, AWARDS, FELLOWSHIPS, AND OTHER RECOGNITION

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- 1) 2016 Crying Towel Award - presented annually by the ASCE chapter at Louisiana Tech University to a faculty member who requires most course work and makes students work hard to achieve high academic standards during the year.

- 2) 2013 Crying Towel Award - presented annually by the ASCE chapter at Louisiana Tech University to a faculty member who requires most course work and makes students work hard to achieve high academic standards during the year.
- 3) 2011 Golden Plum-bob award, presented for the excellent performance as a surveying graduate assistant (once every few years), Department of Civil Engineering, Texas A&M University, College Station, TX.
- 4) 2010 Mills Scholarship by Texas Water Resources Institute, Texas A&M University, College Station, TX, 2009-2010.
- 5) Fellow, Graduate Teaching Academy at Center for Teaching Excellence, Texas A&M University, 2007-2011.
- 6) Outstanding Graduate Teaching Assistant Award, Department of Civil Engineering, Texas A&M University, College Station, TX, 2008-2009.
- 7) Graduate Program Enhancement Scholarship, Department of Civil Engineering, Texas A&M University, College Station, TX, 2006-2007.
- 8) Joseph A. Orr Fellowship, Department of Civil Engineering, Texas A&M University, College Station, TX, 2006-2006.
- 9) Intern at Mickey Leland Environmental Internship Program at Texas Commission on Environmental Quality, Austin, TX, 2005-2005.
- 10) Departmental Fellowship, Department of Civil Engineering, Texas A&M University, College Station, TX, 2002-2004.
- 11) Graduate Research Fellowship, Indian Institute of Technology, Roorkee, India, 2000-2002.

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## **7. MENTORING**

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### **7. (A). GRADUATE STUDENTS (CHAIR)**

- 2017 - 2018 Chandra Mouli Tummala (Ph.D.), Louisiana Tech University
- 2013 - 2018 Md. Ashique Ahmed (Ph.D.), Louisiana Tech University
- 2014 - 2016 Yibo Chen (MS), Louisiana Tech University

### **7. (B). GRADUATE STUDENTS (COMMITTEE)**

- 2018 - 2018 Jonathan Ratliff (MS), Louisiana Tech University
- 2018 - 2018 Joshua Wilkes (MS), Louisiana Tech University
- 2017 - 2018 Brice Gillikin (MS), Louisiana Tech University
- 2017 - 2018 Jiaming Huang (MS), Louisiana Tech University
- 2017 - 2018 Alhossin Alsadi (Ph.D.), Louisiana Tech University
- 2016 - 2018 Wenmei Li (Ph.D.), Louisiana Tech University
- 2015 - 2018 Sujal Baral (MS), Louisiana Tech University

- 2015 - 2018 Sudesh Thapa (MS), Louisiana Tech University
- 2015 - 2017 Greta Vladenau (Ph.D.), Louisiana Tech University
- 2014 - 2017 Minhaz Shahriar (Ph.D.), Louisiana Tech University
- 2013 - 2016 Md. Readul Islam (Ph.D.), Louisiana Tech University
- 2013 - 2015 Nibert Saltibus (Ph.D.), Louisiana Tech University

#### **7. (C). UNDERGRADUATE STUDENTS (RESEARCH)**

- 2018 - present Erin Bereyso (BS), Missouri University of Science & Technology
- 2019 - 2019 Nick Thorsen (BS), Missouri University of Science & Technology
- 2018 - 2018 Brian Elkins (BS), Louisiana Tech University
- 2017 - 2018 Francis Manning, (BS), Louisiana Tech University
- 2016 - 2016 Ryan Joseph, (BS), Louisiana Tech University

#### **7. (D). STUDENT ORGANIZATIONS**

- 2019 - present Faculty Advisor, ASCE Student Chapter, Missouri State University
- 2013 - 2018 Faculty Advisor, ASCE Student Chapter, Louisiana Tech University

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### **8. PROFESSIONAL DEVELOPMENT**

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- 1) 2020 ASCE ExCEED. (*selected, postponed because of COVID-19*)
- 2) 127<sup>th</sup> Annual ASEE Conference (virtual) presented by University of Maryland June 22-26, 2020.
- 3) 126<sup>th</sup> Annual ASEE Conference, Tampa, FL, June 15-18, 2019.
- 4) Building Blocks: Structuring Your Course for Success, Center for Advancing Faculty Excellence, Missouri University of Science & Technology, Rolla, MO, January 9, 2019.
- 5) 125<sup>th</sup> Annual ASEE Conference, Salt Lake City, UT, June 24-27, 2018
- 6) 97<sup>th</sup> Annual Meeting of Transportation Research Board, Washington, D.C., January 7-11, 2018.
- 7) 2017 Fall Meeting, American Geophysical Union, New Orleans, LA, December 11-15, 2017.
- 8) UESI/ASCE Pipelines 2017: Planning and Design, Phoenix, Arizona, August 6-9, 2017.
- 9) 91<sup>st</sup> Meeting of Louisiana Academy of Science, Louisiana Tech University, Ruston, LA, March 11, 2017.
- 10) 5<sup>th</sup> IAJC/ISAM Joint International Conference, Orlando, Florida, November 6-8, 2016.
- 11) 2016 Southeast Symposium on Contemporary Engineering Topics, Jackson State University, Jackson, MS, August 26, 2016.



- 12) Second Mid Years Engineering Experience Conference Slump to Jump! Texas A&M University, College Station, TX, March 30 - April 1, 2016.
- 13) 11<sup>th</sup> Annual Practical Short Course on “Water Technologies: Process & Reuse Water, Wastewater & Desalination”, Texas A&M University, College Station, TX, November 15-17, 2015.
- 14) 9<sup>th</sup> Annual Louisiana Groundwater, Water Resources & Environmental Symposia, Louisiana State University, Baton Rouge, LA, April 16, 2015.
- 15) 10<sup>th</sup> Annual Practical Short Course on “Water Technologies: Process & Reuse Water, Wastewater & Desalination”, Texas A&M University, College Station, TX, October 15-17, 2014.
- 16) 9<sup>th</sup> Annual Practical Short Course on “Water Issues & Technologies: Process Water, Wastewater, and Desalination”, Texas A&M University, College Station, TX, October 29-29, 2013.
- 17) 2013 Association of Environmental Engineering and Science Professors 50th Anniversary Conference - Environmental Engineers and Scientists of 2050: Education, Research, and Practice, Colorado School of Mines, Golden, Colorado, July 14-16, 2013.
- 18) NSF Day, Jackson State University, Jackson, Mississippi, November 28, 2012.
- 19) Annual Conference & Exposition of American Water Works Association, Dallas, TX, June 10-14, 2012.
- 20) Water Quality Technology Conference and Exposition hosted by American Water Works Association, Phoenix, AZ, November 13-17, 2011.
- 21) Texas Water 2011, Fort Worth, TX, April 5-8, 2011.
- 22) Environmental Challenges and Innovations Conference: Gulf Coast 2011, Houston, TX, February 10, 2011.

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## **9. SERVICE**

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### **9. (A). SERVICE TO ACADEMIC DEPARTMENTS/PROGRAMS**

- Represented Cooperative Engineering Program at the Virtual Majors Fair at Missouri State University, Springfield, MO, September 24, 2020.  
<https://www.missouristate.edu/advising/majors-fair.htm>
- Content specialist at Missouri State University for Civil Engineering Senior Design Team and the content specialist for all senior design teams, CArEE, Missouri University of Science & Technology, Rolla, MO, Spring Semester, 2020.

- Represented Cooperative Engineering Program at the Showcase event for prospective students hosted at Missouri State University, Springfield, MO, November 2, 2019.
- Academic advising for more than 40 students per term at Cooperative Engineering Program of Missouri University of Science Technology located at Missouri State University, Springfield, MO, Fall 2018-present.
- Represented Cooperative Engineering Program and Civil Engineering at the Majors Fair hosted by Missouri State University, September 26, 2019.
- Member, CArEE Public Relations – Engagement and Recruiting Committee, Missouri University of Science & Technology, Rolla, MO, 2019-present.
- Chapter Director, Ozark Chapter of Missouri Society of Professional Engineers, Springfield, MO, 2019-present.
- Faculty advisor, ASCE chapter at Cooperative Engineering Program at Missouri State University, 2019-present.
- Faculty advisor for Senior Design Project for individual students, Cooperative Engineering Program, Missouri University of Science & Technology and Missouri State University, 2018-2019.
- Undergraduate student advising - advised about 25 students every quarter, Civil Engineering, Louisiana Tech University, 2012-2018.
- Faculty advisor of the student chapter of American Society of Civil Engineers at Louisiana Tech University, 2013-2018. Led teams of about 30 students to Deep South Regional ASCE Conference, won 2016 Deep South Regional Conference in Steel Bridge and finished second in Concrete Canoe competitions.
- Active member of Civil Engineering ABET committees for multiple courses, Civil Engineering, Louisiana Tech University, 2013-2018.
- Active member of Construction Engineering Technology ABET committees for multiple courses, Construction Engineering Technology, Louisiana Tech University, 2013-2018.
- Evaluated civil engineering Capstone mid-term and final presentations, Civil Engineering, Louisiana Tech University, 2013-2018.
- Interviewed potential faculty candidates, Civil Engineering, Louisiana Tech University, 2013-2018.
- Helped in the evaluation process for Civil Engineering Scholarships through the College of Engineering and Science, Civil Engineering, Louisiana Tech University, 2013-2018.
- Mentored multiple MS students as an active member of their graduate committees, Civil Engineering, Louisiana Tech University, 2013-2018.

- Founding President, Association of Environmental Engineering Students, Texas A&M University, 2011.
- Founding Vice President, Environmental & Water Resources Institute chapter of ASCE, Texas A&M University, 2011.
- Member of Association of Civil Engineering Doctoral Students, Texas A&M University, 2007-2011.

#### **9. (B). SERVICE TO COLLEGES**

- Member, Awards Committee, College of Natural and Applied Science, Missouri State University, Springfield, MO. September, 2018-current.
- Helped with and conducted interviews of potential faculty candidates from another program in COES (Civil and Chemical Engineering), Louisiana Tech University. 2013-2018.
- Mentored six Ph.D. students as an active member of their doctoral committees, College of Engineering and Science, Louisiana Tech University, 2012-2018.
- Helped with COES Engineering and Science Day with a kiosk focused on hands-on learning and demonstration, Louisiana Tech University, 2015.
- Helped with COES Engineering and Science Day with kiosk of demonstration, Louisiana Tech University, 2016.

#### **9. (C). SERVICE TO UNIVERSITIES**

- Student Recruitment and Outreach event for Missouri University of Science and Technology, Springfield, MO, March 5, 2020.
- Senator, Faculty Senate of Louisiana Tech University, 2013-2016.
- Judge, 2016 Louisiana Region II Science and Engineering Fair - Senior Division, Louisiana Tech University, February 19, 2016.
- Judge, 2016 Louisiana Region II Science and Engineering Fair - Junior Division, Louisiana Tech University, Ruston, LA, February 19, 2016.
- Judge, 2016 Louisiana Region II Science and Engineering Fair - Elementary Division, Louisiana Tech University, Ruston, LA, February 12, 2016.
- Judge, 2015 Annual Louisiana Tech University Student Research Symposium, February 13, 2015.
- Judge, 14th Annual Louisiana Tech University Student Research Symposium, February 14, 2013.

- Judge, Louisiana Region II Science and Engineering Fair, Louisiana Tech University, Ruston, LA, February 13, 2013.
- Teaching Assistant Mentor, Center for Teaching Excellence, Texas A&M University, May 2011-2011.
- Counselor, 2<sup>nd</sup> Annual Graduate Camp for new graduate students, Texas A&M University, 2010-2010.
- Fellow, Graduate Teaching Academy of Center for Teaching Excellence at Texas A&M University, 2007-2011.
- Member, Student Service Fee Advisory Board of Texas A&M University, (appointed by TAMU president), 2007-2008.

#### **9. (D). SERVICE TO COMMUNITIES**

- Active volunteer with India Association of The Ozarks, a non-profit charitable organization in the Ozarks area, Springfield, MO, 2019-present.
- Judge, Ozarks Science and Engineering Fair, Missouri State University, Springfield, MO, March 26, 2019.
- Designed and hosted an engineering activity for Discover Engineering Day at Missouri State University, Springfield, MO, February 16, 2019.
- Financial support to Foundation for Springfield Public Schools, 2018.
- Donation of food, clothes, money and other items to support the local community and to help flood victims in Shreveport and Monroe and more recently victims of hurricane Harvey in Houston.
- Financial support to Heritage of India, Monroe, LA and its fight against hunger and its mission to help the local community.
- Volunteered for elementary classes during Teacher Appreciation Week, Ruston, LA.