

PUBLICATIONS AND PRESENTATIONS

A. Books or Related Chapters

1. **Bedient, P. B. and W. C. Huber, 2017, “Hydrology and Floodplain Analysis”, 6th Ed. Prentice-Hall Publishing Co., Upper Saddle River, NJ, February 2017, TBA.**
2. Fang, Z., Sebastian A., and Bedient, P.B. 2014. “*Modern Flood Prediction and Warning Systems.*” Handbook of Engineering Hydrology: Fundamentals and Applications (Chapter 21), Vol. 1, Taylor & Francis Inc. ISBN-10:1466552417.
3. Bedient, P. B. and W. C. Huber, 2012, “*Hydrology and Floodplain Analysis*”, 5th Ed. Prentice-Hall Publishing Co., Upper Saddle River, NJ, February 2012, 800 page textbook.
4. Bedient, P. B., 2012 “*Lessons learned from Hurricane Ike*” Ed. Philip Bedient. College Station, TX: Texas A&M University Press, College Station, TX: 2012, 194 Pages
5. Rifai H.S., Borden R.C., Newell C.J. and Bedient P.B., “ *Modeling Remediation of Chlorinated solvent plumes*” In Situ Remediation of Chlorinated solvent Plumes, Chapter 6, H.F. Stroo, C.H. Ward Editors, Springer, N.Y. 2010, 145 pp.
6. Fang, Z., Safiolea, E., Bedient, P.B. (2006) “*Enhanced Flood Alert and Control Systems for Houston.*” In Chapter 16, Coastal Hydrology and Processes, Ed. By Vijay P. Singh and Y. Jun Xu, Water Resource Publications, LLC, pp. 199-210
7. Capiro, N.L. and Bedient P.B. “*Transport of Reactive Solute in Soil and Groundwater*” The Water Encyclopedia (2005): 524-531.
8. Horsak, R.D., Bedient, P.B., Thomas, F.B., and Hamilton, C. “*Pesticides*”, Environmental Forensics (2005).
9. Thompson, J.F. and Bedient, P.B. “*Urban Storm Water Design and Management,*” The Engineering Handbook, Chapter 94, CRC Press, 2004, 21 pp.
10. Bedient, P. B., Rifai H. S., and Newell C. J., “*Ground Water Contamination: Transport and Remediation*”, 2nd Ed. PTR Publ., Upper Saddle River, NJ, 1999, 605 pages.
11. Charbeneau, R. J., Bedient, P. B. and Loehr R. C., “*Groundwater Remediation*”, Technomic Publishing Co., Inc., Lancaster, PA 1992, 188 pages.

B. Peer Reviewed Journal Publications

1. Juan, A., Hughes, C., Fang, Z., and Bedient, P., 2016. Hydrologic Performance of Watershed- scale Low Impact Development (LID) in a High Intensity Rainfall Region. Journal of Irrigation and Drainage Engineering, doi: 10.1061/(ASCE) IR.1943-4774.0001141.
2. Bass, B., Juan, A., Gori, A., Fang, Z., and Bedient, P. (2016). 2015 Memorial Day Flood

Impacts for Changing Watershed Conditions in Houston, TX. *Natural Hazards Review*. DOI: 10.1061/(ASCE)NH.1527-6996.0000241.

3. Torres, J.M., Bass, B., Irza, J.N., Proft, J., Sebastian, A., Dawson, C., and Bedient, P (2017). Modeling the Hydrodynamic Performance of a Conceptual Storm Surge Barrier System for the Galveston Bay Region. *J. of Waterway, Port, Coastal, and Ocean Engineering*. DOI: 10.1061/(ASCE)WW.1943-5460.0000389.
4. Torres, J., Bass, B., Irza, N., Fang, Z., Proft, J., Dawson, C., Kiani, M., and Bedient, P (2015). Characterizing the hydraulic interactions of hurricane storm surge and rainfall-runoff for the Houston-Galveston region. *Coastal Engineering* 106, 7-19. DOI: <http://dx.doi.org/10.1016/j.coastaleng.2015.09.004>.
5. Juan, A, Fang, Z., and Bedient, P.B. "Developing a Radar-Based Flood Alert System for Sugar Land, Texas." *Journal of Hydrologic Engineering* (2015).
6. Brody, S.D., Sebastian, A., Blessing, R., & Bedient, P.B. (2015). Case-study results from southeast Houston, Texas: Identifying the impacts of residential location on flood risk and loss. *Journal of Flood Risk Management*, (accepted for publication). doi: 10.1111/jfr3.12184
7. Fang, N., Dolan G., Sebastian, A., & Bedient, P.B. (2014). Case Study of Flood Mitigation and Hazard Management at the Texas Medical Center in the Wake of Tropical Storm Allison in 2001. *ASCE Natural Hazards Review*, 15(3). doi: 10.1061/(ASCE)NH.1527-6996.0000139.
8. Christian, J, Fang, Z., Torres, J., Deitz, R. and Bedient, P.B. "Modeling the Hydraulic Effectiveness of a Proposed Storm Surge Barrier System for the Houston Ship Channel during Hurricane Events." *Natural Hazards Review* 16, no. 1 (2014): 04014015
9. Burleson, Daniel W., Hanadi S. Rifai, Jennifer K. Proft, Clint N. Dawson, and Philip B. Bedient. "Vulnerability of an industrial corridor in Texas to storm surge." *Natural Hazards* 77, no. 2 (2015): 1183-1203.
10. Sebastian, A., Proft, J., Dawson, C., & Bedient, P.B. (2014). Characterizing hurricane storm surge behavior in Galveston Bay using the SWAN+ADCIRC model. *Coastal Engineering*, 88, 171-181. doi: <http://dx.doi.org/10.1016/j.coastaleng.2014.03.002>.
11. Brody, S.D., Blessing, R., Sebastian, A., & Bedient, P.B. (2014). Examining the impact of land use/land cover characteristics on flood losses. *Journal of Environmental Planning and Management*, 57(8), 1252-1265. doi: 10.1080/09640568.2013.802228.
12. Brody, S.D., Blessing, R., Sebastian, A., and Bedient, P.B. (2013). "Delineating the Reality of Flood Risk and Loss in Southeast, TX." *ASCE Natural Hazards Review*, 14, 89-97. doi: 10.1061/(ASCE) NH.1527-6996.0000091.
13. Fang, Z., Sebastian A., and Bedient, P.B. 2014. "Modern Flood Prediction and Warning Systems." *Handbook of Engineering Hydrology: Fundamentals and Applications* (Chapter 21), Vol. 1, Taylor & Francis Inc. ISBN-10:1466552417.

14. Teague, A., J. Christian, and P. Bedient. (2013) "Use of Radar Rainfall in an Application of Distributed Hydrologic Modeling for Cypress Creek Watershed, Texas". *Journal of Hydrologic Engineering*. DOI: 10.1061/(ASCE) HE.1943-5584.000056.
15. Doubleday, G., Sebastian, A., Lutteneschlager, T., and Bedient, P.B. (2013). "Modeling Hydrologic Benefits of Low Impact Development: A Distributed Hydrologic Model of The Woodlands, TX." *Journal of American Water Resources*, 1-13. doi: 10.1111/jawr.12095.
16. Christian, J., A. Teague, L. Dueñas-Osario, Z. Fang, and P. Bedient, (2012). "Uncertainty in Floodplain Delineation: Expression of Flood Hazard and Risk in a Gulf Coastal Watershed." *Journal of Hydrological Processes*, doi: 10.1002/hyp.9360.
17. Ray, T., Stepinski, E., Sebastian, A., Bedient, P.B. (2011)"Dynamic Modeling of Storm Surge and Inland Flooding in Texas Coastal Floodplain" ", *Journal of Hydraulic Engineering*, ASCE, Vol. 137, No.10, October 2011, ISSN 0733-9429/2011/10-1103-1110
18. Fang, Z., Bedient, P. B., and Buzcu-Guven, B. (2011). "Long-Term Performance of a Flood Alert System and Upgrade to FAS3: A Houston Texas Case Study". *Journal of Hydrologic Engineering*, ASCE Vol. 16, No. 10, October 1, 2011, ISSN 1084-0699/2011/10-818-828.
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23. Rifai, H.S., Borden, R. C., Newell, C. J., and Bedient, P.B. "Modeling Dissolved Chlorinated Solvents in Groundwater and Their Remediation," in SERDP monograph on Remediation of Dissolved Phase Chlorinated Solvents in Groundwater, (accepted) 2007.
24. Bedient, P. B., Holder, A., and Thompson, J. F., and Fang, Z. (2007). "Modeling of Storm water Response under Large Tailwater Conditions – Case Study for the Texas Medical Center". *Journal of Hydrologic Engineering*, Vol. 12, No. 3, May 1, 2007.
25. Capiro, N.L., Stafford, B.P., Rixey, W.G., Alvarez, P.J.J. and Bedient, P.B. "Fuel-Grade Ethanol Transport at the Water Table Interface in a Pilot-Scale Experimental Tank" *Water Research*, 41(3), pp. 656-654, 2007.
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