

Alyssa Marie Dausman, Ph.D.

Senior Vice President and Chief Scientist,
The Water Institute of the Gulf

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Baton Rouge, LA 70802

Education

Ph.D. in Geosciences, December 2008

Florida International University, Miami, Florida

M.S. in Geology, July 2000

University of New Orleans, New Orleans, Louisiana

B.S. in Geology, May 1996

Tulane University, New Orleans, Louisiana

Research Interests

Structured decision making, water resources management, surface water-groundwater interaction, saltwater intrusion, ecosystem restoration, monitoring and adaptive management.

Professional Experience

The Water Institute of the Gulf

Senior Vice President and Chief Scientist

2020-Present

Vice President for Science

2017-2020

Gulf Coast Ecosystem Restoration Council

Science Director

2015-2017

United States Geological Survey

Science Advisor and Coordinator

2011-2015

Hydrologist

2000-2011

University of New Orleans

Teaching Assistant

1997-1999

Lifewater International

Hydrogeologist

1997

Tulane University

Lab Technician

1995-1996

Tulane University/National Oceanographic and Atmospheric Association

Diver/Research Assistant

1995

Notable Projects

Chief Scientist <i>The RESTORE Act Center of Excellence for Louisiana (LA-COE)</i>	Current
Structured Decision-Making to support Long-Term Strategic Planning <i>Capital Area Ground Water Conservation Commission (CAGWCC)</i>	Current
Adaptive Management <i>Louisiana Trustee Implementation Group</i>	Current
Regionwide Avian Monitoring <i>Regionwide Trustee Implementation Group</i>	Current
Barrier Island System Management utilizing Structured Decision-Marking <i>Louisiana Coastal Protection and Restoration Authority (CPRA)</i>	Current
NOAA Damage Assessment, Remediation and Restoration Program (DARRP) <i>National Oceanic and Atmospheric Administration Fisheries</i>	Current
Policy Research and Future Directions of Applying Engineering with Nature in USACE Programs <i>U.S. Army Corps of Engineer's Engineering with Nature Initiative</i>	Current
City of Jacksonville Resilience Strategy <i>City of Jacksonville</i>	Current
Strategy Development utilizing Structured Decision-Making <i>Louisiana Climate Task Force & Governor's Office of Coastal Activities</i>	2021-2022
Numerical Modeling of the Louisiana, Mississippi, and Alabama Coastal Systems (LMACS) <i>National Oceanic and Atmospheric Administration's National Marine Fisheries Service Restoration Center</i>	2021-2022
Data Synthesis <i>Science for Nature and People Partnership (SNAPP) and National Center for Ecological Analysis and Synthesis (NCEAS)</i>	2016-2022
System-Wide Assessment and Monitoring Program (SWAMP) <i>Restore the Gulf, as lead scientist for the RESTORE Council</i>	2016
Comprehensive Plan Development <i>Restore the Gulf, as lead scientist for the RESTORE Council.</i>	2016
Initial Funded Priorities Development <i>Restore the Gulf</i>	2015
Restoration Monitoring Development <i>Natural Resource Damage Assessment Process (NRDA)</i>	2011-2015
Development of the Sea Water Intrusion (SWI) Package for MODFLOW-2005 <i>In cooperation with Delft University in the Netherlands</i>	2009-2012
Science Advisor <i>Gulf Coast Ecosystem Restoration Task Force, Lead Science Coordination Team</i>	2011-2012

<p>Strategy Development For Management of Transboundary Aquifers in the Americas <i>United Nations Educational, Scientific and Cultural Organization (UNESCO) and Organization of American State.</i> International collaboration to publish a book on strategy development for management of transboundary aquifers in the Americas as part of the UNESCO/OAS Internationally Shared Aquifer Resource Management Americas (ISARM) Program.</p>	2008-2011
<p>Developed numerical model for water resource assessment of Guaymas Valley, Mexico <i>In cooperation with the University of Sonora</i></p>	2008-2011
<p>Development and support of SEAWAT Version 4 <i>In cooperation with Dr. Christian Langevin, Dr. Daniel Thorne, Dr. Weixing Guo and the U.S. Geological Survey Office of Ground Water.</i> SEAWAT Version 4 represents variable-density ground-water flow coupled with multi-species solute and heat transport. SEAWAT Version 4 supports new simulation options for coupling flow and transport, and for representing constant-head boundaries.</p>	2006-2010
<p>Quantifying model uncertainty and predictive uncertainty in variable density groundwater models <i>In cooperation with Dr. John Doherty of Watermark Numerical Computing and Dr. Michael Sukop of Florida International University.</i></p>	2006-2010
<p>Performing water quality and water resource planning in Quartier-Morin, Haiti</p>	2010
<p>Fate and transport of deep-well injectate at the South District Miami-Dade Wastewater Treatment Plant <i>In cooperation with the Miami-Dade Water and Sewer Department</i></p>	2004-2010
<p>Nutrient transport through the Everglades to Florida Bay <i>In cooperation with South Florida Water Management District</i></p>	2003-2004
<p>Numerical simulation of saltwater intrusion in Broward County, Florida <i>In cooperation with the South Florida Water Management District</i></p>	2000-2004

Awards and Honors

- Commemorative Service Award for Yoga Instruction to Naval Special Warfare Group 4 2020
- Sigma Xi International Research Society
- Volunteer of the Year, Hospice care 2006
- Phi Beta Kappa 1996
- Tulane Scholar 1994-1996

Teaching Experience

Training workshops on (1) SEAWAT and (2) Model Independent Parameter Estimation for the USGS. Multiple training workshops held across the United States. In addition, led trainings at the National Geophysical Research Institute in India, the Mexican Hydrogeologic Association in Sonora Mexico, and at the 21st International Saltwater Intrusion Meeting in Portugal.

Head Teaching Assistant, University of New Orleans Geology Department, New Orleans, LA

Community Service Includes

- Warriors at Ease, Naval Special Warfare Group 4, Stennis Space Center, MS 2014-present

- Groundwater resource evaluation, Build On Hope, Ft. Lauderdale, FL & Cap Haitien, Haiti 2010-2012
- 11th hour Volunteer, Hospice Care Of Southeast Florida, Ft. Lauderdale, FL 2005-2010
- Hospital Volunteer, Cure International, Kabul, Afghanistan 2006

Training Courses

- USGS Leadership
- Structured Decision Making
- Elicitation and Facilitation for Structured Decision Making
- MODFLOW-2000
- MT3D/MS,
- Water Quality Modeling
- Biogeochemistry of Wetlands
- Calibration and Uncertainty of Models
- PEST-Model Independent Parameter Estimation,
- Heat as a Tracer

Published Works

Peer Reviewed Publications

Kiskaddon, E., Dalyander, P. S., DeJong, A., McHugh, C., Parfait, J., Littman, A., Hemmerling, S. A., Dausman, A. 2023. Evaluation of net greenhouse gas emission reduction and other societal and environmental outcomes: Consequence analysis for the Louisiana Climate Action Plan. (*In prep for submission to the Journal of Environmental Management, available upon request*).

Liu, B., Kiskaddon, E., Baustian, M. M., Dausman, A., Jung, H., Wang, Y., 2023. Integrating Remote Sensing and Ecosystem Modeling to Assess Coastal Blue Carbon Capture for Marsh-Mangrove dominated Habitats at Port Fourchon, LA, USA (*In prep. for submission to Remote Sensing, available upon request*).

Carruthers, T., Liu, B., Kiskaddon, E., Jones, S., Dausman, A. 2023. Leaving less carbon on the table – critical science gaps and policy needs to establish a fiscally viable carbon accreditation mechanism for coastal herbaceous wetlands (*In prep for submission to Frontiers in Carbon*).

Chen, Y., Vahdat-Aboueshagh, H., Tsai, F., Dausman, A., Runge, M. (2023). Unstructured-grid approach to develop high-fidelity groundwater model to understand groundwater flow and storage responses to excessive groundwater withdrawals in the Southern Hills Aquifer System in southeastern Louisiana (USA). *Journal of Hydrology: Regional Studies*. doi.org/10.1016/j.ejrh.2023.101342

Baustian, M., Liu, B., Moss, L., Dausman, A., Pahl, J. (2023). Climate Change Mitigation Potential of Louisiana's Coastal Area: Current Estimates and Future Projections. *Ecological Applications*. doi.org/10.1002/eap.2847

Carruthers, T.J.B., Raynie, R., Dausman, A., & Khalil, S. (2020). Strategies to Improve Implementation of Adaptive Management Practices for Restoration in Coastal Louisiana. *Shore & Beach*, 88(1), 83–91. doi.org/10.34237/10088110

Henkel, J., & Dausman, A. (2020). A Short History of Funding and Accomplishments Post-Deepwater Horizon. *Shore & Beach*, 11–16. doi.org/10.34237/1008811

- Moss, L.C., Carruthers, T.J.B., Bienn, H., McInnis, A., & Dausman, A. (2020). Gulf-Wide Data Synthesis for Restoration Planning: Utility and Limitations. *Shore & Beach*, 88(1), 23–33. doi.org/10.34237/1008813
- Gittman, R.K., Baillie, C.J., Arkema, K.K., Bennett, R.O., Benoit, J., Blich, S., Brun, J., Chatwin, A., Colden, A., Dausman, A., DeAngelis, B., Herold, N., Henkel, J., Houge, R., Howard, R., Hughes, A.R., Scyphers, S.B., Shostik, T., Sutton-Grier, A., and Grabowski, J.H. (2019) Voluntary Restoration: Mitigation's Silent Partner in the Quest to Reverse Coastal Wetland Loss in the USA. *Frontiers in Marine Science*. 6:511. doi: 10.3389/fmars.2019.00511
- Arkema K., Bennett R., Dausman A., Materman L. (2019) *United States: Blending Finance Mechanisms for Coastal Resilience and Climate Adaptation*. In: Mandle L., Ouyang Z., Salzman J.E., Daily G. (eds) *Green Growth That Works*. Island Press, Washington, DC. doi.org/10.5822/978-1-64283-004-0_14
- Kolker, A., Dausman, A., Allison, M., Brown, G., Chu, P., de Mutsert, K., Fitzpatrick, C., Henkel, J.R., Justic, D., Kleis, B., McCoy, E., Meselhe, E., and Parsons Richards, C. (2018). Research Informed Approaches to Managing the River-Dominated Coastal Zone: Insights from the Mississippi River, its Delta and Plume. *Eos*.
- Sutton-Grier, A.E.; Gittman, R.K.; Arkema, K.K.; Bennett, R.O.; Benoit, J.; Blich, S.; Burks-Copes, K.A.; Colden, A.; Dausman, A.; DeAngelis, B.M.; Hughes, A.R.; Scyphers, S.B.; Grabowski, J.H. (2018) Investing in Natural and Nature-Based Infrastructure: Building Better Along Our Coasts. *Sustainability*, 10, 523.
- Canales, A.G., Velázquez, C.E., Islas, L., Hanson, R.T., Dausman, A. (2016). Modelo Seawat para intrusión salina en el acuífero de Boca Abierta, Sonora. *Tecnología y Ciencias del Agua*.
- Walker, S.E., Dausman, A.M., & Lavoie, D. (2012). Gulf of Mexico Ecosystem Science Assessment and Needs. Gulf Coast Ecosystem Restoration Task Force and U.S. Geological Survey.
- La Licata, I., Langevin, C.D., Dausman, A.M., & Alberti, L. (2011) Effect of Tidal Fluctuations on Transient Dispersion of Simulated Contaminant Concentrations in a Coastal Aquifer: *Journal of Hydrology*, 23 p. manuscript.
- Dausman, A.M., et. al. (2010). Regional Strategy for the Management of Transboundary Aquifer Systems (TAS) in the Americas. *UNESCO Series*, ISARM-Americas.
- Dausman, A.M. (2010). Variable-Density Flow of Groundwater: Quantifying the Effects of Temperature and Concentration in Numerical Models of Variable-Density Groundwater Flow. *Lambert Academic Publishing AG & Co. KG*. Saarbrucken, Germany.
- Dausman, A.M., Doherty, J., & Langevin, C.D. (2009). Hypothesis Testing of Buoyant Plume Migration Using a Highly Parameterized Variable-Density Groundwater Model at a Site in Florida, USA. *Hydrogeol J DOI: 10.1007/s10040-009-0511-6*.
- Taniguchi, M., Dausman, A., Howard, K., Polemio, M., & Lakshmanan, E. eds. (2009). Trends and Sustainability of Groundwater in Highly Stressed Aquifers: *IAHS Publication 329*, Oxfordshire, United Kingdom, 312 p.
- Langevin, C.D., Dausman, A.M., & Sukop, M.C. (2009). Solute and Heat Transport Model of the Henry and Hilleke Laboratory Experiment. *Ground Water*.

Dausman, A.M., Doherty, J., Langevin, C.D., & Sukop, M.C. (2009). Quantifying Data Worth Toward Reducing Predictive Uncertainty: *Ground Water*. doi: 10.1111/j.1745-6584.2010.00679.x.

Dausman, A.M., Langevin, C.D., & Sukop, M.C. (2007). Simulation of Submarine Groundwater Discharge Salinity and Temperature Variations: Implications for Remote Detection, in Sanford, W., Langevin, C.D., Polemio, M., and Povinec, P., eds., 2007, A new focus on groundwater-seawater interactions: IAHS Publication 312, Oxfordshire, United Kingdom, p. 272-280.

La Licata, I., Langevin, C.D., & Dausman, A.M. (2007). Effect of Tidal fluctuations on Contaminant Transfer to the Ocean, in Sanford, W., Langevin, C.D., Polemio, M., and Povinec, P., eds., 2007, A new focus on groundwater-seawater interactions: IAHS Publication 312, Oxfordshire, United Kingdom, p. 334-341.

Easley, D.H., Gaubert, A., Dausman, A., & Stoessell, R.K. (2003). Modeling of Salinity and Temperature Effects upon Ground Water in the Surficial Carbonate Aquifer, Yucatan Peninsula, Mexico.

Technical Reports

The Water Institute of the Gulf. (2022). Consequence Analysis of the Draft Portfolio of Climate Strategies and Actions (Technical Memorandum). Prepared for and funded by the Louisiana Governor's Office of Coastal Activities under Executive Order JBE 2020-18. Baton Rouge, LA. (121p)

The Water Institute of the Gulf. (2022). Consequence Analysis of a Hypothetical Portfolio of Climate Strategies in Support of the Climate Initiatives Task Force's Development of a Louisiana Climate Action Plan (Technical Memorandum). Prepared for and funded by the Louisiana Governor's Office of Coastal Activities under Executive Order JBE 2020-18. Baton Rouge, LA. (106p)

Dalyander, P.S., Miner, M.D., Khalil, S.M., Lee, D.M., LeBlanc, J.W., Newman, A., Cameron, S.C., and Di Leonardo, D.R., (2021). Barrier Island System Management (BISM): A Holistic System-Approach to Adaptively Manage Louisiana's Barrier Islands and Headlands. The Water Institute of the Gulf. Prepared for and funded by the Coastal Protection and Restoration Authority. Baton Rouge, LA under Task Order 73.

Kiskaddon, E., Green, M., Hemmerling, S., Rhinehart, K., Carruthers, T. (2021). Application of the SECAS Gulf-wide Data Suite in Restoration Planning; Case Study of Louisiana's 2017 Coastal Master Plan. The Water Institute of the Gulf & Royal Engineers & Consultants, LLC. Prepared for and funded by the U.S. Fish and Wildlife Service via cooperative agreement F20AC00082.

Deepwater Horizon Louisiana Trustee Implementation Group. 2021. Louisiana Trustee Implementation Group Monitoring and Adaptive Management Strategy (LA TIG MAM Strategy). Baton Rouge, 55 p. Available: <https://la-dwh.com/wp-content/uploads/2021/09/MAMstrategy.pdf>

The Water Institute of the Gulf. (2020). Louisiana Adaptive Management Status and Improvement Report: Vision and Recommendations (Technical Document Task Order 50.2, Contract No. 2503-12-58; p. 202). The Water Institute of the Gulf. Prepared for the Coastal Protection and Restoration Authority (CPRA) and the Louisiana Trustee Implementation Group (LA TIG), funded by the LA TIG.

Runge M.C., Bean E.A., McInnis A., Clark R., Dausman A. (2020). Framework for a long-term strategic plan for the Capital Area Groundwater Conservation Commission. A report produced for and funded by the Capital Area Groundwater Conservation Commission under Task Order No. 70, Cooperative Endeavor Agreement No. 2503-12-58. Baton Rouge, LA: The Water Institute of the Gulf.

- McInnis, A., Clark, R., Hemmerling, S., and Dausman, A., (2020). State of the Science to Support Long-Term Water Resource Planning. The Water Institute of the Gulf. Prepared for and funded by the Capital Area Ground Water Conservation Commission and the Coastal Protection and Restoration Authority of Louisiana. Baton Rouge, LA.
- Dalyander, P.S., Miner, M., Dausman, A., Cameron, C., Dudeck, N., Georgiou, I.Y. (2020) Numerical Modeling of the Louisiana, Mississippi, and Alabama Coastal System: Model Inventory and Recommendations. The Water Institute of the Gulf. Prepared for the National Oceanic and Atmospheric Administration.
- The Water Institute of the Gulf (2019). Monitoring Plans for Louisiana's System-Wide Assessment and Monitoring Program (SWAMP), Version IV. Prepared for and funded by the Coastal Protection and Restoration Authority (CPRA) under Task Order 6, Contract No. 2503-12-58. Baton Rouge, LA. (235p)
- Hanson, R. T., Chávez Guillén, R., Tujchneider, O., Rivera, A., Alley, W., Dausman, A., Batista, L., & Espinoza, M. (2015). Conocimientos Básico Científico y Técnico Necesarios para la Evaluación y Gestion de los SAT. In Organization of American States/UNESCO Publication (Ed.), *Estrategia regional para la evaluacion y gestión de los sistemas acuíferos transfronterizos en las Americas* (pp. 79–124). Organization of American States/UNESCO Publication; USGS Publications Warehouse. <http://pubs.er.usgs.gov/publication/70178995>
- Bakker, M., Schaars, F., Hughes, J.D., Langevin, C.D., and Dausman, A.M. (2013). Documentation of the Seawater Intrusion (SWI2) Package for MODFLOW: U.S. Geological Survey Techniques and Methods, Book 6, Chapter A46, 47 p., <https://pubs.usgs.gov/tm/6a46/>.
- Dausman, A.M., Langevin, C.D., Thorne, D.T. Jr., & Sukop, M. C. (2009). Application of SEAWAT to Select Variable-Density and Viscosity Problems. USGS Scientific Investigations Report 2009-5028
- Langevin, C.D., Thorne, D.T., Jr., Dausman, A.M., Sukop, M.C., & Guo, Weixing. (2008). SEAWAT Version 4: A Computer Program for Simulation of Multi-Species Solute and Heat Transport. U.S. Geological Survey Techniques and Methods. Book 6, Chapter A22, 39 p.
- Dausman, A., & Langevin, C. (2005). Movement of the Saltwater Interface in the Surficial Aquifer System in Response to Hydrologic Stresses and Water-Management Practices, Broward County, Florida: USGS Scientific Investigations Report. SIR 2004-5256.

Regional Planning Reports

- Comprehensive Plan Update (2016). Gulf Coast Ecosystem Restoration Council. <https://www.restorethegulf.gov/comprehensive-plan>
- Dausman, A., et al. (2015). Resources and Ecosystems Sustainability, Tourist Opportunities, and Revived Economies of the Gulf Coast States Act (RESTORE Act) Initial Funded Priorities List. Gulf Coast Ecosystem Restoration Council.
- Dausman, A., et al. (2011). Gulf of Mexico Regional Ecosystem Restoration Strategy. Gulf Coast Ecosystem Restoration Task Force.

Conference Proceedings and Presentations

- Dausman, A. (2023). Utilizing Structured Decision-Making to Integrate Data, Modeling, and Science into Policy Formulation and Implementation. 2023 PEST Conference: The Path from Data to Decisions.
- Dausman, A. (2022). Long-term Strategic Water Sustainability Plan for Groundwater Resources, Baton Rouge Area, Louisiana, USA. UN-Water Summit on Groundwater 2022.
- Dausman, A., Dalyander, S., McHugh, C., DeJong, A., Kiskaddon, E., Hemmerling, S., LaGrone, Lexie, Vorhoff, H., Sutcliffe, C., Cooper, L. (2021). Innovatively Applying a Structured Decision-Making Framework to Louisiana Climate Action Planning to Reach Net Zero Emissions by 2050 while Maximizing Equity Outcomes. AGU Fall Meeting Abstracts.
- Carruthers, T., Raynie, R., Khalil, S., Dausman, A., Kiskaddon, E. (2021). Consensus SMART Objectives The Basis of Adaptive Management and Reporting for Coastal Habitat Restoration in Louisiana. AGU Fall Meeting Abstracts.
- Chen, Y.-H., Vahdat Aboueshagh, H., Mohamed, A., Tsai, F., Runge, M., Dausman, A. (2021). Unstructured-Grid Approach to Model Complex Aquifer System and Assess Groundwater Depletion in the Capital Area of Louisiana. AGU Fall Meeting Abstracts.
- DeJong, A., Dalyander, S., Dausman, A., McHugh, C., Kiskaddon, E., Hemmerling, S., Cooper, L., Sutcliffe, C., Vorhoff, H. (2021). Evaluating Consequences to Ecological, Societal, and Economic Objectives through Decision Analysis under Uncertainty in Louisiana's Climate Action Planning Process. AGU Fall Meeting Abstracts.
- Baustian, M., Liu, B., Moss, L., Dausman, A., James, P., Vorhoff, H., Sutcliffe, C. (2021). Assessing the Current and Future Potential Carbon Sink of Louisiana's Coastal Habitats. AGU Fall Meeting Abstracts.
- Liu, B., Baustian, M., Moss, L., Dausman, A., Pahl, J., Vorhoff, H., Sutcliffe, C. (2021). Quantifying Potential Coastal Carbon Sinks of Louisiana's Habitats. AGU Fall Meeting Abstracts.
- Fetherston-Resch, L., Dausman, A., Steyer, G., Giordano, S., Perry, R., & Green, R. (2017). Gulf of Mexico Oil Spill and Ecosystem Science Conference: Assessing the State of Gulf of Mexico Benthic Habitat Maps, New Orleans, Louisiana.
- Dausman, Alyssa. (2016). The Science Enterprise Workshop: Supporting and Implementing Collaborative Science: Science Enterprises workshop bay delta program California Program Development and Resource Allocation Related to the Gulf Coast Ecosystem Restoration Council, Davis, California.
- Green, R., Elfring, C., Dausman, A., & Murawski, S. (2014). Current and Future Ecosystem-Monitoring Strategies in the Gulf of Mexico: Spanning Disciplines, Platforms, and Affiliations. January 28th, 2014 Gulf of Mexico Oil Spill & Ecosystem Science Conference Report.
- Dausman, A.M., & Steyer, G. (2012). Utilizing the existing Science, Monitoring, and Adaptive Management Framework from Louisiana's Master Plan to inform implementation of the Gulf of Mexico Regional Restoration Strategy; Proceedings of the 2012 State of the Coast: Preparing for a Changing Future.
- Dausman, A.M, Walker, S.E., & Lavoie, D. (2012). Supporting Gulf of Mexico Restoration: Issues, Challenges, and Solutions Identified by the Gulf Coast Ecosystem Restoration Task Force Science Coordination Team; 9th INTECOL: International Wetlands Conference Proceedings, June 3-8, 2012.

- Dausman, A.M, Walker, S.E., & Lavoie, D. (2012). Supporting Gulf of Mexico Ecosystem Restoration: Issues and Challenges Identified by the Gulf Coast Ecosystem Restoration Task Force Science Team; Proceedings of the 2012 Ocean Sciences Meeting, February 20-24, 2012.
- Bakker, M., Schaars, F., Dausman, A.M., Hughes, J.D., & Langevin, C.D. (2012). Documentation of the Sea-Water Intrusion (SWI1) Package for modeling sea-water intrusion with MODFLOW-2005: USGS Techniques and Methods Book.
- Schaars, F.W., Bakker, M., Hughes, J.D., Dausman, A.M., & Langevin, C.D. (2011). Modeling Regional Seawater Intrusion with MODFLOW2005 and the SWI package. MODFLOW and More: Integrated Hydrologic Modeling.
- Brakefield, L.K. & Dausman, A.K.. (2011). Investigation of regional saltwater intrusion in two coastal aquifers in Florida using the SWI package for MODFLOW-2000, 2011 NGWA Ground Water Summit, Baltimore, MD.
- Dausman, A.M., Langevin, C.D., Bakker, M., & Schaars, F. (2010). A Comparison between SWI and SEAWAT – The Importance of Dispersion, Inversion, and Vertical Anisotropy. SWIM21 Conference.
- Dausman, A.M., Langevin, C.D., Bakker, M., & Schaars, F. (2010). A Comparison between SWI and SEAWAT – The Importance of Dispersion, Inversion, and Vertical Anisotropy. SWIM21 Conference Proceedings June 2010, Azores, Portugal.
- Dausman, A.M. (2009). Hypothesis testing of buoyant plume migration using a highly parameterized variable-density groundwater model. VII Congreso Nacional De Aguas Subterranas 11 al 13 de Noviembre de 2009. San Carlos Nuevo Guaymas, Sonora, Mexico.
- Dausman, A.M. (2009). Hypothesis Testing of Buoyant Plume Migration Using a Highly Parameterized Variable-Density Groundwater Model. Abstract published in the program and proceeding of VII Congreso Nacional De Aguas Subterranas 11 al 13 de Noviembre de 2009. San Carlos Nuevo Guaymas, Sonora, Mexico.
- Dausman, A.M, Doherty, J., & Langevin, C.D (2009). Creative use of Pilot Points to Address Site and Regional Scale Heterogeneity in a Variable-Density Model.
- Dausman, A.M, Doherty, J., & Langevin, C.D. (2009). Creative use of Pilot Points to Address Site and Regional Scale Heterogeneity in a Variable-Density Model. Conference paper published in proceedings for the PEST Conference.
- Langevin, C.D., Dausman, A.M., Thorne, D., & Sukop, M.C. (2008). Modeling Solute and Heat Transport with SEAWAT. MODFLOW and More 2008. Ground Water and Public Policy – Conference Proceedings, Golden, Colorado.
- La Licata, I., Langevin, C. D., Dausman, A.M., & Alberti, L. (2008). Tidal Effects on Transient Dispersion of Simulated Contaminant Concentrations in Coastal Aquifers. Conference paper published in the Program and Proceedings of the 20th Salt Water Intrusion Meeting.
- Dausman, A.M., Langevin, C.D., Sukop, M.C., & Walsh, V. (2008). Saltwater/Freshwater Interface Movement in Response to Deep-Well Injection in a Coastal Aquifer. 20th Salt Water Intrusion Meeting, Naples, Florida.

- Dausman, A.M., Langevin, C.D., Sukop, M.C., & Walsh, V. (2008). Saltwater/Freshwater Interface Movement in Response to Deep-Well Injection in a Coastal Aquifer. Conference paper published in the Program and Proceedings of the 20th Salt Water Intrusion Meeting.
- Dausman, A.M., Langevin, C.D., Renken, R., Dixon, J., Walsh, V., & Sukop, M.C. (2008). Fun Model, Fun Lessons, Fun Results. The Florida Keys Wastewater Assistance Foundation. Key Largo, Florida.
- Dausman, A.M., Langevin, C.D., & Doherty, J. (2008). Model Sophistication, Parameter Parsimony and Manual Regularization — The Good, the Bad, the Ugly, and the Beauty of Pilot Points. U.S. Geological Survey: National Groundwater Meeting. Denver, Colorado.
- Dausman, A.M., Doherty, J., Langevin, C.D., & Sukop, M.C. (2008). Quantifying Data Contributions toward Reducing Predictive Uncertainty in a Variable-Density Flow and Solute/Heat Transport Model. MODFLOW and More: Ground Water and Public Policy, Golden, Colorado.
- Dausman, A.M., Doherty, J., Langevin, C.D., & Sukop, M.C. (2008). Quantifying Data Contributions toward Reducing Predictive Uncertainty in a Variable-Density Flow and Solute/Heat Transport Model. MODFLOW and More. Ground Water and Public Policy.
- Dausman, A.M., Doherty, J., Hunt, R.J., & Fienen, M. (2008). Model-Independent parameter estimation: Introduction to using PEST. 2nd USGS Modeling Conference. Orange Beach, Alabama.
- Dausman, A.M. (2008). Fun Model, Fun Lessons, Fun Results. UNESCO Lecture Series. Fort Lauderdale, Florida.
- Dausman, A.M. & Doherty, J. (2008). PEST-FEST, Using PEST in variable-density modeling: SEAWAT_V4. 20th Salt Water Intrusion Meeting, Naples, Florida.
- Dausman, A.M., Langevin, C.D., Doherty, J., Sukop, M.C., & Walsh, V. (2007). A Unique Approach to Calibrating a Variable-Density Flow and Transport Model. GSA, Vol. 39, No. 6.
- Dausman, A.M., Langevin, C.D., Doherty, J., Sukop, M.C., & Walsh, V. (2007). A Unique Approach to Calibrating a Variable-Density Flow and Transport Model in a Carbonate Aquifer. Presented to the Geological Society of America.
- Dausman, A. M., & Langevin, C. D. (2007). Calibration of a Deep-Well Injection Model. Presented to SEAWAT Training Course. Fort Lauderdale, Florida.
- Dausman, A.M., Langevin, C.D., & Sukop, M.C. (2007). Simulation of submarine groundwater discharge salinity and temperature variations: implications for remote detection. A New Focus on Groundwater-Seawater Interactions. Presented to XXIV IUGG General Assembly. Perugia, Italy.
- Dausman, A.M., Langevin, C.D., Walsh, V., & Sukop, M.C. (2006). Modeling the Potential for Plume Migration from a Deep Well Injection Site. Ground Water Summit of the National Ground Water Association. San Antonio, Texas.
- Dausman, A.M., Langevin, C.D., Walsh, V., & Sukop, M.C. (2006). Modeling the Potential for Plume Migration from a Deep Well Injection Site. Abstract Book of the 2006 Ground Water Summit. National Ground Water Association.

- Dausman, A.M., C.D. Langevin, M.C. Sukop, & Walsh, V. (2006). Development and Calibration of a Variable-Density Numerical Model of a Deep-well Injection Site near the Southeastern Florida Coast, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract H33D.
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