

CURRICULUM VITAE

THOMAS M. MISSIMER, Ph.D., P.G.

February 4, 2019

Qualifications and Experience:

Dr. Missimer has over 45 years of experience in the field of hydrogeology covering many different projects. He is the author of over 435 published papers (107 peer-reviewed journal papers including 37 book chapters), 11 books, and over 300 technical consulting reports. He has managed over two hundred and fifty technical projects and has generally supervised hundreds of others. He has served on numerous water and environmental committees and has been active in advising on water policy decisions.

He has taught graduate level groundwater hydrology courses which emphasized groundwater hydraulics and the movement of contaminants through the groundwater system. He has also taught arid lands water management at the graduate level.

Dr. Missimer has considerable experience in providing expert testimony in various courts and has been qualified as an expert in hydrology, geology, hydrogeology, water quality, water quality monitoring, contamination hydrogeology, and several other sub-disciplines.

He co-founded Missimer & Associates, Inc. and helped grow the company to revenues greater than \$25 million per year. Missimer & Associates, Inc. became a public corporation and was renamed to ViroGroup, Inc. Dr. Missimer left ViroGroup, Inc. in 1993 and co-founded Missimer International, Inc. Missimer International Inc. was acquired by Camp Dresser & McKee Inc. in March 1999.

Dr. Missimer was Vice President of CDM Missimer from March 1999 to June 2004. He was also the CDM national practice leader in artificial recharge/aquifer storage and recovery technology.

He left CDM in June 2004 and founded Missimer Groundwater Science, Inc. and served as President of that firm until January, 2007, when it was acquired by Schlumberger Corporation. He was Vice President of Schlumberger Water Services USA Inc., Schlumberger Water Services global leader of the water resources sector, and a Scientific Advisor from 2007 to 2010.

Dr. Missimer was a member of the faculty of the King Abdullah University of Science and Technology from February 2011-June 2014, serving as Visiting Professor of environmental science and engineering (hydrogeology and water resources). He is currently an Eminent Scholar at the U. A. Whitaker College of Engineering, Florida Gulf Coast University with the title of visiting professor and President of Missimer Hydrological Services, Inc., a groundwater consulting company.

Selected Project Experience:*Water Supply Development*

Lee County Wellfield, Florida (16 MGD)

Kuwait Institute of Scientific Research, ASR Consultant

City of Cape Coral R.O. Wellfield Expansion (21 MGD)

Tia Maria, Peru Seawater RO Beach Gallery Intake

Island Water Association R.O. Wellfield, Florida (5 MGD)

Dare County, North Carolina RO Wellfield (6 MGD)

City of Daytona Beach, water supply investigations, ASR feasibility, monitoring program design

Expert Testimony

City of Cocoa vs. Holland Properties, Orlando (Circuit Court, Orange County, Florida, expert in hydrogeology, hydrology)

Department of Community Affairs et al, vs. Lee County et al, Case No. 95-0098GM (Chapter 120 Admin. Hearing, hydrogeology)

City of Stuart vs. Northrop Grumman Corporation, U. S. District Court (hydrogeology, utility costs)

Education:

Bachelor of Arts Degree (geology), Franklin and Marshall College, 1972

Master of Science Degree (geology), Florida State University, 1973

U. S. Geological Survey Training Center, Denver, Colorado, October 1974 (analytical methods to determine aquifer response)

Florida International University, 1977, (water quality mgmt.)

National Water Well Association, Short Course on Fractured Rock Hydrology, Tucson, Arizona, 1986

Doctor of Philosophy (marine geology and geophysics), University of Miami, Rosenstiel School of Marine and Atmospheric Science, 1997

Experience:

Eminent Scholar, U. A. Whitaker College of Engineering, Florida Gulf Coast University, Fort Myers, Florida (1/18- present)

Courtesy faculty, Visiting Professor, U. A. Whitaker College of Engineering, Florida Gulf Coast University, Fort Myers, Florida (6/14- 12/18)

Visiting Professor, King Abdullah University of Science and Technology, Thuwal, Saudi Arabia (2/11- 6/14)

President, Missimer Hydrological Services, Inc. (1/11-present)

Water Resources Sector Leader, Schlumberger Water Services, Research Advisor with Schlumberger Limited (1/10 to 12/10)

Vice President of Schlumberger Water Services USA Inc., Research Principal with Schlumberger, Inc. (1/07 to 1/10)

President, Missimer Groundwater Science, Inc. (6/04 to 1/07)

Vice President, CDM Missimer (a division of Camp Dresser & McKee Inc. (1/01 to 6/04)

President of Missimer International, Inc., a subsidiary of Camp Dresser & McKee Inc. and Vice President of Camp Dresser & McKee Inc. (3/99 to 1/01)

President and Principal Hydrogeologist, Missimer International, Inc. (12/93 to 3/99)

Vice-Chairman and Principal Hydrogeologist, ViroGroup, Inc. (10/92 to 11/93)

Vice-Chairman and Principal Hydrogeologist, Missimer & Associates, Inc. (5/91 to 10/92)

President, Missimer and Associates, Inc. (6/76 to 5/91)

Research Associate, Rosenstiel School of Marine and Atmospheric Science, University of Miami, Miami, Florida (9/75 to 6/76)

Hydrologist, U. S. Geological Survey, Fort Myers, Florida (7/73 to 9/75)

Honors:

Awarded the Lloyd S. Yeakel Memorial Award in Sedimentology, Franklin & Marshall College (1971)

National Science Foundation Traineeship, 1972-73, Florida State University (fellowship)

Best Paper Presentation Award, 1991 World Conference on Desalination and Water Reuse, International Desalination Association, Washington, D.C.

Award of Academic Merit, Graduate School, University of Miami, May 9, 1997

Awarded the 2004 Second Place Thomas A. Philpott Excellence of Presentation Award by the Gulf Coast Association of Geological Societies for the presentation "Tectonically induced fracturing, folding and groundwater flow in South Florida"

Award of Excellence in Technical Communication from the Society of Technical Communication, Houston Section for publication of the book entitled "Water supply development, aquifer storage, and concentrate disposal for membrane water treatment facilities", Feb. 26, 2010.

Award of Distinguished Publication from the Society for Technical Communication, International Technical Publications Competitions for publication of the book entitled "Water supply development, aquifer storage, and concentrate disposal for membrane water treatment facilities", May 5, 2010.

Award of Excellence in Technical Communication from the Society of Technical Communication, Houston Section for publication of the book entitled "Aquifer storage and recovery and managed aquifer recharge using wells: planning, hydrogeology, design, and operation", February 15, 2011.

Award of Excellence in Technical Communication from the Society of Technical Communication, International Competition Summit Awards for publication of the book entitled "Aquifer storage and recovery and managed aquifer recharge using wells: planning, hydrogeology, design, and operation", May 17, 2011.

Winner of the 2014 Editor's Choice from the International Association of Hydrogeologists and the Hydrogeology Journal for the paper "Hydrogeology, water quality, and microbial assessment of a coastal alluvial aquifer in western Saudi Arabia: Potential use of coastal wadi aquifers for desalination water supplies" published in Hydrogeology Journal.

Statewide Appointments Held:

Appointed by Governor Lawton Chiles to the Board of Professional Geologists (Confirmed by Florida Senate on March 12, 1992, 1st term: December 16, 1992 -September 30, 1995)
(Confirmed by Florida Senate on May 3, 1996, 2nd term: October 1, 1995 - October 31, 1997)

Elected Vice-Chairman for 1993

Elected Chairman for 1994

Appointed by Governor Jeb Bush to the Florida Forever Advisory Council in September 1999
(Term of office; Sept. 7, 1999 to Sept. 6, 2001)

Appointed by Governor Charlie Crist to the Strategic Aggregates Review Task Force in October 2007 (Term Oct. 1, 2007 to March 1, 2008)

Committees and Advisory Boards:

Elected Chairman of the Earth and Planetary Sciences section of the Florida Academy of Sciences (1976 and 1977)

Appointed to the Lee County Planning Advisory Committee (1981-83)

Elected Vice-Chairman, 1981-82

Elected Chairman, 1982-83

Southeastern Geological Society Ad Hoc Committee on Florida Hydrostratigraphic unit definition, Sept. 1982 - June 1984

Appointed by the Florida Department of Environmental Regulation to the Ad Hoc Committee on Reverse Osmosis Concentrate Disposal (1988-1990)

Organizing Committee, 1988 Annual Meeting of the American Institute of Hydrology, Tampa, Florida

Appointed to the Lee County Water Resources Management Advisory Committee (1989-1991)

Elected Vice-Chairman (1990-1991)

Editorial Advisory Board, Journal of Environmental Permitting (1991-1994)

Organizing Committee, 1991 Annual Meeting of the American Institute of Hydrology, International Conference on Hydrology & Hydrogeology in the 90s, November 3-7, 1991, Orlando, Florida.

Association of Groundwater Scientists and Engineers Environmental Site Assessment Steering Committee (National), (1990-1992)

Appointed by Florida Secretary of Agriculture Bob Crawford as a member of the Agricultural Water Policy Group, Dec. 10, 1992

Appointed by the Governing Board of the South Florida Water Management District to the Lower West Coast Water Supply Plan Advisory Committee, 1992-1993

Elected Chairman of the Geology and Hydrology Section of the Florida Academy of Sciences (1996), Member of Board of Directors, Florida Academy of Sciences Appointed to the Technical Advisory Committee for the

Governor's Commission for a Sustainable South Florida (January 1995-1999)

Appointed Vice-Chairman (April 1995)

- Appointed Chairman (April 1996-1999)
- Elected by the membership to the Board of Directors of the Southeast Desalting Association (1996-1998)
- Appointed to the Aquifer Storage and Recovery Issue Team (voting member) by the Governor's Commission for a Sustainable South Florida (1998-1999) (Everglades ASR investigation)
- Appointed as an advisor to the Water Management Task Force of the Council of 100 (2002-2003)
- Technical Program Chairman, Southwest Florida Water Resources Conference (November 2002 meeting)
- American Water Resources Association, National Committee on Aquifer Storage and Recovery (2003 -2008)
- Technical Program Co-Chairman, Southwest Florida Water Resources Conference (November 2003 meeting)
- Appointed as a member of the Hydrostratigraphic Nomenclature Committee by the Florida Geological Survey (2003-2009)
- Appointed to the Groundwater Committee of the American Water Works Association (2004-2008)
- Technical Program Co-Chairman, Southwest Florida Water Resources Conference (November 2005 meeting)
- Appointed by the State Geologist to the State of Florida Geologic Mapping Committee (Jan. 2005-June 2009)
- Appointed by the Secretary of the Florida Department of Environmental Protection to the Caloosahatchee-St. Lucie Rivers Corridor Advisory Committee (Aug. 2006-Jan. 2007)
- Technical Program Committee, Southwest Florida Water Resources Conference (16th Annual Meeting, November 2006)
- Technical Program Committee, Southwest Florida Water Resources Conference (17th Annual Meeting, November 2007)
- Appointed by Governor Charlie Crist to the Strategic Aggregates Task Force (November 2007-July 2008)
- Technical Program Committee, Southwest Florida Water Resources Conference (18th Annual Meeting, November 2008)
- Appointed to Chair of the National Groundwater Committee of the American Water Works Association, June 2009-June 2010.
- Technical Program Committee, Southwest Florida Water Resources Conference (18th Annual Meeting, November 2009)
- Technical Program Committee, ISMAR7, Abu Dhabi, October 9-13, 2010.
- Independent Scientific Technical Advisory Panel, Under the auspices of the California Coastal Commission and Poseidon Resources (Surfside) LLC (City of Huntington Beach Seawater Reverse Osmosis Facility-Subsurface Intakes Technical Feasibility Analysis, Phase 1) (March-October 2014).

Independent Scientific Technical Advisory Panel, Under the auspices of the California Coastal Commission and Poseidon Resources (Surfside) LLC (City of Huntington Beach Seawater Reverse Osmosis Facility-Subsurface Intakes Technical Feasibility Analysis, Phase 2) (April-September 2015).

Independent Advisory Panel for West Basin Analysis of Technical Feasibility of Subsurface Intakes for Seawater Reverse Osmosis Facilities in California, Under the auspices of the National Water Research Institute, California (January-April 2016) (Chairman).

National Water Resources Institute Scientific Advisory Panel to Review: Hampton Roads Sanitation District's Sustainable Water Initiative for Tomorrow (SWIFT) plan Under the auspices of the National Water Research Institute, California (August 2016-June 2017).

Professional Affiliations:

American Association for the Advancement of Science
American Association of Petroleum Geologists
American Geophysical Union (Hydrology Section)
American Water Works Association (Life Member)
European Desalination Society
Florida Academy of Sciences (Life Member)
Geological Society of America (Hydrogeology Div.)
National Groundwater Association
Society of Economic Paleontologists and Mineralogists

Registrations:

Professional Geologist, State of Georgia, Number 555
Professional Geologist, State of Florida, Number 144
Professional Geologist, State of Virginia, Number 2801001326

Certifications:

American Institute of Professional Geologists Certification No. 4549
National Ground Water Association, Certificate No. 190 (Certified Ground Water Professional)

JOURNAL AND PUBLISHER EDITORIAL BOARDS

THOMAS M. MISSIMER, Ph.D., P.G.

Editorial Advisory Board, Journal of Environmental Permitting (1991-1994).

IDA Journal Editorial Board (Associate editor), April 20, 2009-August 31, 2013

Springer-Verlag Publishers, Environmental Science and Engineering, Environmental Science Books Series Editor (Appointed, 2012)

Associate Editor, Groundwater, December 2012-March 2014

Executive Editor, Groundwater, March 2014-present

UNIVERSITY TEACHING

THOMAS M. MISSIMER, Ph.D., P.G.

MGG 515. Environmental Hydrogeology (Summer Session, 1st session, 1993, 3 credit hours), Rosenstiel School of Marine and Atmospheric Science, University of Miami (45 hours of lecture, labs).

Course description: History of modern hydrogeology, geology and aquifer type recognition, theory of groundwater flow, calculation of the water balance, theory of aquifer testing, introduction to well hydraulics, aquifer test analysis methods, reaction of aquifers to pumping, groundwater exploration methods, surface water and bank storage, solute transport, saline water intrusion, wellfield design, introduction to MODFLOW modeling, and water law.

EVR 6936/EVR 4930. Water Policy (Fall Semester, 2004, 3 credit hours), Florida Gulf Coast University (45 hours of lecture)

Course description: History of hydrology and groundwater science, groundwater hydrology basics, surface-water flow and flood control, the water balance in the context of water management, water policy basics, international water policy, water in the Middle East, U. S. Water policy, appropriative versus riparian management schemes, Florida Water Policy, the interaction of political, economic, and legal issues with technical approaches to water management.

EnSE 223. Groundwater Hydrology (Spring Semester, 2011, 2012, 2013, 3 credit hours). King Abdullah University of Science and Technology (graduate course)

Course description: History of hydrology and groundwater hydrology, water budget calculations, mathematics of mass transport, groundwater flow, solute transport, methods of conducting field tests to determine aquifer hydraulic properties, analytical methods of determining aquifer hydraulic properties, groundwater quality and pollutions assessment, water well construction methods and well design, aquifer characterization using geophysical methods, test drilling methods, and water quality assessment, introduction to groundwater modeling and MODFLOW, artificial recharge, introduction to water policy

EnSE 323. Arid Lands Water Management (Fall Semester, 2012, 2013, 3 credit hours). King Abdullah University of Science and Technology (graduate course-upper level).

Course description: Special hydrologic circumstances of dry lands, geology of arid lands aquifers, hydrogeology of arid lands aquifers, evaluation of arid lands aquifers-precipitation and ET measurement, recharge, water resources sustainability, wadi aquifer recharge, remote sensing in arid lands water management, groundwater and surface water modeling, hydrology of arid lands-flood evaluation, infiltration, interflow, rainwater harvesting techniques, managed aquifer recharge, water conservation, wastewater reuse, water policy and governance, religious and cultural influences on water management, water resources economics, integrated water resources management, non-renewable groundwater resources, transboundary aquifer management, global climate change, and hydrology of arid lands.

THOMAS M. MISSIMER, Ph.D., P.G.

CWR 4540C. Water Resources Design CRN: 80303 (Groundwater part only). Florida Gulf Coast University (Fall, 2014, two sections of 3 credit hour course, 13.5 contact hours in each section). Course description (part taught): History of hydrology and groundwater hydrology, water budget calculations, geology of aquifer systems and boundary conditions, porosity types and evolution of aquifer systems in time, mathematics of mass transport, groundwater flow, methods of conducting field tests to determine aquifer hydraulic properties, analytical methods of determining aquifer hydraulic properties from well tests, groundwater hydrology of Florida, saltwater intrusion, and design of artificial recharge systems.

CWR 6537 Contaminant Transport. Florida Gulf Coast University (Spring, 2018, 1 graduate section, 42 hours of contact time)

Course description: General principles of groundwater flow, types of groundwater contaminants, mass transport equations for saturated zone solute transport, diffusion and dispersion, transformation, retardation, and attenuation of solutes, unsaturated zone solute transport, multi-phase fluid flow, inorganic chemicals in groundwater, organic chemicals in groundwater, site-characterization and monitoring, introduction to groundwater solute transport modeling, groundwater remediation

CWR 6537 Hydrology & Contaminant Transport. Florida Gulf Coast University (Spring, 2019, 1 graduate section, 42 hours of contact time)

Course description: Description and quantification of the hydrologic cycle. Origin of porosity and permeability and associations with geologic conditions and models. Aquifer types and hydraulic coefficients used to describe them. Groundwater flow with an introduction to the mass transport equations. Primary equations used to describe and quantify groundwater flow. Hydraulic testing methods used to measure aquifer coefficients. Well and wellfield design. Introduction to groundwater flow modeling (MODFLOW). Introduction to solute transport. Transport equations for non-reactive and reactive solutes. Mass transport in groundwater systems. Introduction to modeling mass transport of solutes. Behavior of common groundwater contaminants. Remediation of groundwater and soil contamination.

SEMINAR TEACHING AND PRESENTATIONS

THOMAS M. MISSIMER, Ph.D., P.G.

- "Design of Wells and Wellfields for Reverse Osmosis Systems," TREEO Center, University of Florida, 1982 (held in Ft. Myers)
- "Design and Maintenance of Wells and Wellfields for Reverse Osmosis Systems," TREEO Center, University of Florida, 1984 (held in Ft. Myers)
- "Water Use and Well Permitting," Florida Chamber Environmental Summer School, July 1987 (Marco Island)
- "Water Use Permitting," Florida Chamber Environmental Summer School, July 1988 (Marco Island)
- "Environmental Audits: Managing Risk in Business and Real Estate," University of Florida, Center for Training, Research and Education for Environmental Occupations, Sept. 29, 30, 1988
- "Environmental Audits," 1988 Florida Chamber: Solid & Hazardous Waste Management Short-Course, November 9-10, 1988
- "Consumptive Water Use Permits," 1989 Florida Chamber Environmental Permitting Short-Course, January 18-20, 1989, Tallahassee, Florida
- "Water Resources of Collier County," Water Management Seminar "Protecting Your Landscape Investment", University of Florida (IFAS) and Collier County Extension Service, February 23, 1989
- "Geology of Cape Coral," 1st Annual Water Awareness Fair, April 8, 1989
- "Environmental Audits," 1989 Florida Chamber Environmental Permitting Summer School, July 12-14, 1989, Marco Island, Florida
- "A Perspective of Water Use in Florida: Past, Present, and Future," Florida Nursery Growers Association, November 8, 1989, Bradenton, Florida
- "Environmental Audits," 1989 Florida Chamber: Solid & Hazardous Waste Management Short-Course, November 15-17, 1989, Tampa, Florida
- "Consumptive Water Use Permits," 1990 Florida Chamber Environmental Permitting Short-Course, January 24-26, 1990, Tallahassee, Florida
- "Environmental Audits of Agricultural Facilities and Properties," 3rd Annual Agricultural Environmental Seminar, Florida Fruit & Vegetable Assoc., Altamonte Springs, Florida, March 29-30, 1990
- "Cape Coral Hydrology," 1990 2nd Annual City of Cape Coral Water Fair, April 12, 1990, Cape Coral, Florida
- "Potential Raw Water Sources," Reverse Osmosis and Other Membrane Technology, Florida Engineering Society, Tampa, June 13, 1990
- "Future Drinking Water Supply Issues in Southeast Florida," State and Local Government: Challenges for the 1990s, Florida International University Institute of Government, June 15, 1990

- "Environmental Audits," 1990 Florida Chamber Environmental Permitting Summer School, July 11-13, 1990, Marco Island, Florida
- "Ethical Considerations in Environmental Permitting," 1990 Florida Chamber Environmental Permitting Summer School, July 11-13, 1990, Marco Island, Florida
- "Environmental Audits: Managing Risk in Business and Real Estate," University of Florida, Center for Training, Research, and Education for Environmental Occupations, Sept. 20, 21, 1990
- "Transactional Environmental Audits: Technical Aspects," Professional Education Systems, Inc., October 10, 1990 (Tampa), October 11, 1990 (Orlando), and October 12, 1990 (Miami)
- "Environmental Audits," 1990 Florida Chamber Solid and Hazardous Waste Management and Growth Management Short-Course, October 10-12, 1990
- "Water and Growth," 1990 Florida Chamber Solid and Hazardous Waste Management and Growth Management Short-Course, October 10-12, 1990
- "Transactional Environmental Audits: Business Aspects," Professional Education Systems, Inc., October 10, 1990 (Tampa), October 11, 1990 (Orlando), and October 12, 1990 (Miami)
- "Transactional Environmental Audits", Florida Chamber of Commerce Environmental Permitting Short-Course, January 15-17, 1991, Tallahassee, Florida
- "Transactional Environmental Audits of Agricultural Properties," 4th Annual Agricultural Environmental Seminar, Florida Fruit & Vegetable Assoc., Altamonte Springs, Florida, March 21, 22, 1991, Orlando, Florida
- "Methods of Conducting Environmental Audits on Agricultural Properties," Environmental Seminar, Florida Cooperative Extension Service, University of Florida, Institute of Food and Agricultural Sciences, Arcadia, Florida, May 29, 1991
- "Ethical Considerations in Environmental Permitting," 1991 Florida Chamber Environmental Permitting Summer School, July 10-12, 1991, Marco Island, Florida
- "Transactional Environmental Audits," 1991 Florida Chamber Environmental Permitting Summer School, July 10-12, 1991, Marco Island, Florida
- "Ethical Considerations in Environmental Permitting," 1992 Florida Chamber Environmental Permitting Summer School, July 15-17, 1992, Marco Island, Florida
- "Transactional Environmental Audits," 1992 Florida Chamber Environmental Permitting Summer School, July 15-17, 1992, Marco Island, Florida
- "Groundwater Supply Development for Membrane Treatment Systems," 1992 FMC Corporation Seminar on Membrane Water Treatment, Ft. Lauderdale, Florida, October 14-16, 1992
- "Ethical Considerations in Environmental Permitting:" Florida Chamber of Commerce Environmental Permitting Short Course, January 20-22, 1993
- "Consumptive Use and Water Well Construction Permitting," Florida Chamber of Commerce Environmental Permitting Short Course, January 20-22, 1993

- "Technical aspects of environmental site assessments and industrial compliance audits," Geological Society of America, SE Regional Meeting, March 31, 1993 (8 hours)
- "Transactional Environmental Audits," 1993 Florida Chamber of Commerce Environmental Permitting Summer School, July 14-16, 1993, Marco Island, Florida
- "Ethical Considerations in Environmental Permitting," 1993 Florida Chamber of Commerce Environmental Permitting Summer School, July 14-16, 1993, Marco Island, Florida
- "Groundwater Quality and Public Water Supply System Permitting," 1994 Florida Chamber of Commerce Environmental Permitting Summer School, July 13-15, 1994, Marco Island, Florida.
- "Integrating RCRA compliance programs with health and safety programs," Hazardous Waste Management Conference, University of Florida TREEO Center, Ft. Lauderdale, January 12-13, 1995
- "Water use permitting - a look ahead," 1995 Florida Chamber of Commerce Environmental Permitting Summer School, July 12-14, 1995, Marco Island, Florida
- "New developments in consumptive use permitting; water reuse; water use caution areas; minimum flows and levels," 1995 Florida Chamber of Commerce Environmental Permitting Summer School, July 12-14, 1995, Marco Island, Florida
- "Water source development for desalting," Water Desalting: Experience in the Mid-Atlantic, September 15, 1995, Virginia Beach, Virginia, American Desalting Association
- "Water supply development for Desalting," 1995, Southeast Desalting Association Short-Course, Operating the Membrane Plant: Step 1: Pre-treatment, Longboat Key, Florida, October 16, 17, 1995
- "Water and water policy ahead," 1996, Florida Chamber of Commerce Environmental Permitting Short Course, January 17-18, 1996, Orlando, Florida
- "Water sources and considerations," 1996, Membrane technology in water treatment, Montana Section American Water Works Association, May 1, 1996, Missoula, Montana
- "Water supply development for desalting, reverse osmosis/membrane water treatment systems," 1996, University of Florida, TREEO Center, June 6, 1996, Fort Myers, Florida
- "Alternative water supply development: issues and obstacles (Aquifer storage and recovery)," 1996, Florida Chamber of Commerce Environmental Permitting Summer School, July 17-19, 1996, Marco Island, Florida
- "Raw water considerations," 1997, Mid-Atlantic Desalting: should it work for us too?, American Desalting Association Seminar, June 30 and July 1, 1997, Nags Head, North Carolina
- "Alternative water supplies; Issues and obstacles," 1997, Florida Chamber of Commerce Seminar, Water, Water, Everywhere, But . . ., July 15-16, 1997, Marco Island, Florida
- "Raw water supply development for membrane water treatment plants," 1997, Operating the Membrane Plant, Part 1: Pre-Treatment. Southeast Desalting Association, October 20 & 21, 1997, Key Largo, Florida

- "The Caloosahatchee River as a public water supply source: Current use and future concepts," 1997, Seventh Annual Southwest Florida Water Resources Conference, November 21, 1997, Fort Myers, Florida
- "The Everglades: Technical and legal setting," 1998, The Hydropolitics of Florida, Florida Chamber of Commerce Environmental Permitting Summer School, July 21-22, 1998, Marco Island, Florida
- "Everglades and C & SF project restudy update," 1999, Florida Chamber of Commerce 15th Annual Environmental Permitting Short Course, February 10-11, 1999, Orlando, Florida.
- "Expanding Florida's Liquid Assets," 1999, Liquid Assets, Florida Chamber of Commerce Environmental Permitting Summer School, July 20-21, 1999, Marco Island, Florida.
- "Making the water pie bigger," 1999, Florida Chamber of Commerce 13th Environmental Permitting Summer School, July 21-23, 1999, Marco Island, Florida.
- "Water supply and wellfield maintenance," 1999 Southeast Desalting Assoc. water treatment plant operator's certification course, Titusville, Florida, August 9, 1999.
- "Frontiers in water resources development: Water supply and storage strategies for the new millennium," 1999, Environmental and land use law update and section annual meeting, August 19-21, 1999, Amelia Island, Florida.
- "Florida Forever Open Forum," 2000, Florida Chamber of Commerce 16th Annual Environmental Permitting Short Course, February 9-10, 2000, Orlando, Florida.
- "ASR and Lower East Coast Planning – Can it Work?" 2000, Southeast Florida Utility Council Monthly Meeting, April 10, 2000.
- "Water needs and sources: Florida's Lower West Coast," 2000, Southwest Florida Water Resources Workshop, April 13, 2000.
- "Groundwater considerations/aquifer storage and recovery," 2000, ADA Technology Transfer, "Beach Weather...Beach Water? Tips for Running a Good Water System and Providing a Fresh Coastal Drinking Water:" Am. Desalting Assoc., Nags Head, North Carolina, May 8-9, 2000.
- "Liquid Assets II, Attacking investment capital for Florida's water needs," Florida Chamber of Commerce, Marco Island, Florida, July 18-19, 2000 (Course Moderator).
- "Alternative water supplies: Technical issues and obstacles," Florida Chamber of Commerce Environmental Permitting Short Course, Orlando, Florida, February 22-23, 2001.
- "Alternative water supplies: Issues and obstacles," Florida Chamber of Commerce, 2001 Environmental Permitting Summer School, Marco Island, Florida, July 18-20, 2001.
- "ASR: Science, Politics, and Reality," American Water Resources Association, Florida Section, Key West, Florida, July 26-27, 2001.

- "Ethical issues involving consultants, attorneys, agency employees, and advocacy groups in environmental permitting," Florida Bar Environmental and Land Use Section, Amelia Island, Florida, August 23-24, 2001.
- "Bursting bubbles: The real science of ASR," Aquifer Storage and Recovery: The Latest Perspective on an Important Florida Issue, American Groundwater Trust, Orlando, FL, Sept. 10, 2001.
- "Seepage management technologies," South Florida Chapter, Florida Association of Environmental Professionals, Dade County, Florida, October 12, 2001.
- "Riverbank filtration: An overview," NY Section AWWA, Liverpool, N.Y., November 14, 2001
- "Florida's drought and alternative water supplies," Florida Chamber of Commerce, 2002 Growth Management & Environmental Permitting Short Course, January 15-17, 2002, Orlando, Florida.
- "Present and Future Golf Course Water Supplies," Everglades Golf Course Superintendents Assoc., Naples, Florida, April 11, 2002.
- "The effects of karst and anisotropy on the design of wellfields and ASR systems in carbonate rocks," Miami Geological Society, Coral Gables, Florida, April 24, 2002.
- "Business and agricultural water supplies: Present and Future," Collier County Water Symposium, Collier County, Florida, May 8 to 10, 2002.
- "Groundwater issues in Florida: Resources and management," Florida Council of 100, Naples, Florida, May 9, 10, 2002.
- "Raw water considerations," Southeast Desalting Association, South Seas Plantation, Captiva Island, Florida, June 3 and 4, 2002.
- "ASR: Storage for the future," Florida Association for Water Quality, The Registry Hotel, Naples, Florida, June 14, 2002.
- "Integrated water resource management: Water for the Future of Florida," Florida Chamber of Commerce, 2002, Environmental Permitting Summer School Short Course, July 17-19, 2002, Marco Island, Florida.
- "The future sources of golf course water supplies," United States Golf Association Regional Conference, Jacksonville, Florida, November 12, 2002.
- "The future sources of golf course water supply," United States Golf Association Regional Conference, Palm Beach Gardens, Florida, November 14, 2002.
- "Feedwater quality variation and the power consumption of water plant operation: The Island Water Association brackish water RO treatment facility, Sanibel Island, Florida," 12th Annual Southwest Florida Water Resources Conference, Fort Myers, Florida, November 15, 2002.
- "Assessment of aquifers for ASR use: Hydrogeology does matter!" American Ground Water Trust Conference, ASR III, Orlando, Florida, January 13, 2003.

- "Brackish-water desalination in Florida: Status," Florida Chamber of Commerce Annual Growth Management & Environmental Permitting Short Course, February 11-13, 2003, Orlando, Florida.
- "Localized and platform-scale effects of sequence stratigraphy and diagenesis on carbonate aquifer heterogeneity," University of South Florida Workshop, St. Petersburg, Florida, February 14, 2003.
- "Aquifer storage and recovery (ASR) using four water sources," CDM Technology Seminar, Implementing alternative water resources in southeast Florida, March 26, 2003, West Palm Beach, Florida.
- "Aquifer storage and recovery (ASR) using four water sources," CDM Technology Seminar, Implementing alternative water resources in east-central Florida, March 27, 2003, Orlando, Florida.
- "Aquifer storage and recovery (ASR) using four water sources," CDM Technology Seminar, Alternative water resources development – the future of Florida, April 3, 2003, Fort Myers, Florida.
- "Aquifers of Collier County, characteristics and recharge, Collier County Water Seminar, May 1, 2003, Corkscrew Swamp Sanctuary, Collier County, Florida.
- "Current structure of the water management districts and development of new water sources," Florida Chamber of Commerce, 2003, Environmental Permitting Summer School Short Course, July 16-18, 2003, Marco Island, Florida.
- "Storage enhancement for reuse systems using aquifer storage and recovery," Colorado Water: Reuse it or lose it!, 2003 Water Reuse Workshop, August 14, 2003, Colorado School of Mines, Golden, Colorado.
- "Fluctuating versus constant rate Holocene sea level rise: a problem for coastal planners", 13th Annual Southwest Florida Water Resources Conference, Fort Myers, Florida, November 21, 2003.
- "Saline-water intrusion: A modern view of an old problem," 2003 AGWSE Annual Meeting and Conference, Orlando, Florida, December 9-12, 2003 (invited lecture).
- "Natural hydraulic entrapment of relict saline-water in semi-confined aquifers, southwest Florida," 2003 AGWSE Annual Meeting and Conference, Orlando, Florida, December 9-12, 2003.
- "Brackish-water desalination in Florida: Status," Florida Chamber of Commerce Annual Growth Management & Environmental Permitting Short Course, February 11-13, 2004, Orlando, Florida.
- "Modeling ASR hydraulics and plume geometry," American Ground Water Trust, Aquifer Storage and Recovery IV, Tampa, Florida, April 15-16, 2004.
- "Alternative water supplies: The key to Florida's water future" Florida Chamber's Pre-School, Avoiding the politics of water shortage, Marco Island, Florida, July 20-21, 2004.

- "Desalination in Florida: Advances and economics," Florida Chamber of Commerce 2004 Environmental Permitting Summer School, Marco Island, Florida, July 21-23, 2004.
- "Technical feasibility of aquifer storage and recovery: Assessment of recovery efficiency," Artificial Groundwater Recharge: A Step Towards Water Security, Kuwait Institute for Scientific Research and Schlumberger, February 15-16, 2005, Kuwait City, State of Kuwait.
- "Brackish-water desalination in Florida: Status," Florida Chamber of Commerce Annual Growth Management & Environmental Permitting Short Course, March 2 to 4, 2005, Orlando, Florida.
- "Water now! Water for the future!", Southwest Florida: Can Nature Survive Our Growth? A decision makers forum, April 1, 2005, Florida Gulf Coast University, Division of Ecological Studies and Social Sciences.
- "ASR systems for reuse water and a technical assessment of ASR projects," SUN8 Workshop, Groundwater injection: Modeling, risks, and regulations. American Water Works Association, San Francisco, California, June 12, 2005.
- "Proactively addressing Florida's water future-Let's continue the dialogue," Florida Chamber of Commerce 19th Environmental Permitting Summer School, July 20-22, 2005, Marco Island, Florida.
- "Desalination in Florida," in the short course "Alternative Water Supplies", Florida Chamber of Commerce 19th Environmental Permitting Summer School, July 20-22, 2005, Marco Island, Florida.
- "Raw water impact on plant design-water supply development for membrane water treatment facilities," Southeast Desalting Association 2005 Fall Symposium, Membranes: A fundamental review. Hilton Daytona Beach Oceanfront Resort, Daytona Beach, Florida, October 2-4, 2005.
- "Sustainability and the management of groundwater systems in South Florida and the Bahamas," Florida Section/American Water Works Association, Renaissance Orlando Resort at SeaWorld, Orlando, Florida, November 30, 2005.
- "Sustainability and the management of groundwater systems in South Florida and the Bahamas," American Water Works Association Water Sources Conference and Exposition, Albuquerque Convention Center, Albuquerque, New Mexico, February 5-8, 2006.
- "Brackish-water desalination in Florida: 2006 Status," Florida Chamber of Commerce Annual Growth Management & Environmental Permitting Short Course, February 15-17, 2006, Rosen Plaza Hotel, Orlando, Florida.
- "The Density Reduction/Groundwater Resource area in Lee County, Florida", Real Estate Investment Society, May 9, 2006"
- "Brackish-water desalination in Florida: 2006 Status," Pre-School, Linking Growth with Water Availability, Florida Chamber of Commerce Annual Environmental Permitting Summer School, July 18-21, 2006, Marriott's Marco Island Resort, Florida.

- “Desalination in Florida: 2007 Status,” Florida Chamber of Commerce Annual Growth Management & Environmental Permitting Short Course, February 21-23, 2007, Hilton
- “Bank filtration designs applied to seawater desalination and aquifer storage and recovery projects”, in Bank Filtration Course, American Water Works Association Annual Conference and Exposition, Toronto, Canada, June 24, 2007.
- “The Density Reduction/Groundwater Resource area in the City of Bonita Springs”, Panel discussion at the “Leadership Bonita Alumni Session, Liles Hotel, City of Bonita Springs, March 16, 2007.
- “Aquifer storage and recovery design concepts – Keys to success”, Groundwater Resources Association of California, Long Beach, CA, June 21, 2007.
- “Central Florida Coordination Area: Harbinger of Things to Come?” Florida Chamber of Commerce Annual Environmental Permitting Summer School, July 18, 2007, Marriott’s Marco Island Resort, Florida.
- “Impacts of drought on our water supplies”, 17th Southwest Florida Water Resources Conference, Florida Gulf Coast University, Fort Myers, Florida, November 16, 2007.
- “Aquifer storage and recovery and the development of sustainable water supplies,” 2008 Sustainable Water Sources: Conservation and Resource Planning Conference & Exposition, February 10-13, 2008, Grand Sierra Resort and Casino, Reno, Nevada.
- “Central Florida Coordination Area: Preview of Florida’s water future,” Florida Chamber of Commerce Annual Environmental Permitting Summer School, February 18, 2008, Daytona Beach Hilton, Daytona Beach, Florida.
- “Desalination in Florida: 2008 Status,” Florida Chamber of Commerce Annual Growth Management & Environmental Permitting Short Course, February 20-22, 2008, Daytona Beach Hilton, Daytona Beach, Florida.
- “Hydrogeology of CO₂ sequestration in Florida”, Florida Association for Water Quality Control, June 18, 2008, Naples Grande Resort & Club, Naples, Florida.
- “Brackish-water desalination in Florida: 2008 Status,” Pre-School, Linking Growth with Water Availability, Florida Chamber of Commerce Annual Environmental Permitting Summer School, July 16-18, 2008, Marriott’s Marco Island Resort, Florida.
- “Alternative subsurface intake designs for seawater desalination facilities”, 2008 Alden Research Laboratory, Desalination Intake November 4, 2008.
- “Design of alternative intakes for seawater desalination systems”, 2008, Bushnak Academy in Association with the International Desalination Association and the European Desalination Society, Jeddah, Saudi Arabia, November 4, 2008 (8-hour short course).
- “Desalination in Florida: 2009 Status,” Florida Chamber of Commerce Annual Growth Management & Environmental Permitting Short Course, February 20-22, 2008, Daytona Beach Hilton, Daytona Beach, Florida.

- “Hydrogeology of CO₂ sequestration in Florida”, Florida Chamber of Commerce Annual Growth Management & Environmental Permitting Short Course, February 20-22, 2008, Daytona Beach Hilton, Daytona Beach, Florida.
- “Comparison of different intake types for desalination facilities”, ARWADEX 7, Water Desalination Conference in Arab Countries, Intercontinental Hotel, Riyadh, Saudi Arabia, April 12, 2009 (with Dr. Ahmed Hashim, Electric and Water Authority, Kingdom of Bahrain).
- “Alternative intake designs for seawater reverse osmosis facilities”, Seminar given for the Sharjah Electric and Water Authority, SEWA conference center, April 14, 2009, Sharjah, United Arab Emirates.
- “Alternative intake designs for seawater reverse osmosis facilities”, Seminar given for the Abu Dhabi Environmental Authority, April 15, 2009, Abu Dhabi, United Arab Emirates.
- “Hydrogeology of CO₂ sequestration in Florida”, Florida Chamber of Commerce Annual Environmental Permitting Summer School Short Course, July 22-24, 2009, Marriott’s Marco Island Resort, Marco Island, Florida.
- “Economics of desalination in Florida and other parts of the world,” Florida Chamber of Commerce Annual Environmental Permitting Summer School Short Course, July 22-24, 2009, Marriott’s Marco Island Resort, Marco Island, Florida.
- “Water policy,” in Groundwater Short Course entitled “Aquifer Hydraulics”, American Water Works Association, June 14, 2009, San Diego, California.
- “Geophysics,” in Groundwater short course entitled “Aquifer Hydraulics”, American Water Works Association, June 14, 2009, San Diego, California.
- “Design of alternative intakes for seawater desalination systems”, 2009, Bushnak Academy in Association with the International Desalination Association and the European Desalination Society, Jeddah, Saudi Arabia, October 15, 2009 (8-hour short course).
- “Water resources planning in South Florida during a difficult economy: No time for unreasonable projects and unfunded mandates”, Southwest Florida Water Resources Conference, November 20, 2009, Fort Myers, Florida.
- “Future water supplies for golf courses in southwest Florida”, Everglades Golf Course Superintendents Associates Association, Eighteenth Annual Spring Turfgrass Symposium, April 8, 2010, The Naples Beach Hotel & Golf Club, Naples, Florida.
- “Future seawater desalination in Florida: Needed Innovations,” Florida Chamber of Commerce Annual Environmental Permitting Summer School Short Course, July 20-23, 2010, Marriott’s Marco Island Resort, Marco Island, Florida.
- “Design of alternative intakes for seawater desalination systems”, 2010, Bushnak Academy in Association with the International Desalination Association and the European Desalination Society, Jeddah, Saudi Arabia, October 7, 2010 (8-hour short course).
- “Potential mitigation of red tide impacts and associated toxins by passage through subsurface intake systems”: Expert Workshop on Red Tide and HABs: Impact on Desalination Systems: Middle East Desalination Research Center, Muscat, Sultanate of Oman, February 2012.

- “Indirect potable water reuse through aquifer recharge and recovery”: Water Reuse Workshop, Intercontinental Hotel, Muscat, Oman, April 11, 2012.
- “Subsurface intakes: Feasibility assessment, design and operation, and environmental considerations”: National Centre of Excellence in Desalination Australia (NCEDA) International Intake and Outfall Workshop, Adelaide, Australia, May 16-17, 2012.
- “Design and operation of passive screen open-ocean intake system National Centre of Excellence in Desalination Australia (NCEDA) International Intake and Outfall Workshop, Adelaide, Australia, May 16-17, 2012.
- “Aquifer Recharge and Recovery: Recharge, treatment and recovery of impaired waters for new uses”, 2012 Ajman Environment Conference, International Workshop on Water Management, June 6, 2012, Ajman University, Ajman, United Arab Emirates.
- “Sustainability & Environmental Engineering: Water & Water Reuse”, National Water Company: Detailing the opportunities in the Saudi Arabian water and wastewater industry, December 5, 2012, Jeddah, Saudi Arabia.
- “Aquifer storage and recovery of impaired water to supplement water resources in the GCC/MENA region”, 2013 International Water Summit, Abu Dhabi, United Arab Emirates, January 14-16, 2013.
- “Indirect potable water reuse through aquifer recharge and recovery”, WaterWorld Middle East 2013, Doha, Qatar, February 3-5, 2013.
- “Water reuse in Saudi Arabia: Approaches to increase use and acceptance”, WaterWorld Middle East 2013, Doha, Qatar, February 3-5, 2013.
- “Geothermal energy potential in the KSA and combined-cycle geothermal and solar for thermal desalination” with Kim Choon Ng, Saudi Water & Power Forum, Early Session, Jeddah, Saudi Arabia, December 1, 2013.
- “Meeting future global water supply demands”, Florida Gulf Coast University STEM Lecture, February 10, 2016.
- “New strategies for disposal of concentrate for desalination plants discharging into the Red Sea and Gulf of Aden, Saudi Arabia”, Regional Workshop on Mitigating Impacts of Desalination Brine and Wastewater on the Marine and Coastal Environment in the Red Sea and Gulf of Aden. The Regional Organization for the Conservation of the Environment of the Red Sea and Gulf of Aden (PERSGA) (Governments of Saudi Arabia, Jordan, Egypt, Yemen, Eritrea, and Djibouti), May 15-17, 2016, PESGA HQ, Jeddah, Saudi Arabia.
- “Subsurface intakes: Feasibility, Design, Performance, and Cost”, in Control of organic and biofouling of SWRO Plants, Ajman, United Arab Emirates, October 8-10, 2017.
- “Meeting future global water supply needs in a changing environment”, Water Desalination and Reuse Center Seminar, King Abdullah University of Science and Technology, November 5, 2017.

- “Cradle to grave: Late Miocene fluvial transport of siliciclastic sediment from the southern Appalachian Mountains to southern Florida”, Rosenstiel School of Marine and Atmospheric Science, University of Miami, Miami, Florida, November 27, 2017.
- “Subsurface intakes: Feasibility, Design, Performance, and Cost” and “Aquifer Storage and Recovery Use in Desalination Systems”, in Control of organic and Biofouling of SWRO Plants, Ajman, United Arab Emirates, May 5-7, 2018.
- “History of the Lake Okeechobee/Caloosahatchee River drainage system and some solution of part of the freshwater algae problem”, Lee County Chamber of Commerce, Water Quality Science, Policy & Economic Impact, October 23, 2018.

GRADUATE STUDENTS AND RESEARCH ADVISED

THOMAS M. MISSIMER, Ph.D., P.G.

MS Thesis Students (8 chair, 2 committees)

Chair at King Abdullah University of Science and Technology

Abdullah Hamoud Dehwah

Feasibility of gallery intake systems for seawater reverse osmosis facilities along the Northern Red Sea Coast of Saudi Arabia (Defended and Approved March 6, 2012)

Kathryn Sesler

Seabed filter feasibility study of Om Al Misk Island (Defended and Approved May 27, 2012)

Luis Lujan

Feasibility analysis of a seabed filtration intake system for the Shoaiba III expansion reverse osmosis plant (Defended and Approved May 27, 2012)

Jorge Rosas Aquiler

Analysis of grain size distribution and hydraulic conductivity for a variety of sediment types with application to wadi sediments (Defended and Approved April 24, 2013)

Oliver Miquel Lopez Valencia

Evaluation and preliminary design of a stormwater aquifer storage and recovery (ASR) system at the Wadi Khulays dune field in Saudi Arabia (Defended and Approved April 24, 2013)

David Mantilla

Technical for use of seabed gallery intake for the Shuqaiq-II SWRO facility, Saudi Arabia (Defended and Approved April 27, 2013)

Iqra Mughal (co-chaired with Martin Mai of Earth Science and Engineering)

Experimental measurement of diffusive extinction depth in and soil moisture gradient in southwestern Saudi Arabian dune sands (Defended and Approved April 27, 2013)

Abdullah Hassan Alshahri (co-chaired with TorOve Leiknes)

Organic carbon balance in reverse osmosis (SWRO) plants, Jeddah, Saudi Arabia (Defended and Approved October 27, 2015)

Committee at King Abdullah University of Science and Technology

Mohamed Ouf (committee)

The role of dissolved organic carbon and pre-adaptation in the biotransformation of trace organic chemicals during aquifer storage and recovery (Defended and approved May 20, 2012)

Pia Alexandra Wiche Latorre (committee)

Water and energy consumption of King Abdullah University of Science and Technology (Defended and approved May 20, 2012).

MS Thesis Students

Chair at Florida Gulf Coast University, U. A. Whitaker of Engineering

Natalie Harvey, Topic under review.

Daniel Canfield

Changes of recharge potential in time in dry and wet detention/retention swales and ponds with time.

PhD Students at King Abdullah University of Science and Technology (2 chair, 1 committee)

Mazahirali (Ali) Alidina (Co-chaired with Jorg Drewes and Gary Amy)

Removal of trace organic compounds in ARR systems in western Saudi Arabia (Defended and approved, April 17, 2014)

Abdullah A. H. Dehwah (Co-chaired with Kim Choon Ng)

An assessment of subsurface intake systems: Planning and impact on feed water quality for SWRO facilities (Defended and approved, November 8, 2017)

PhD Students (Outside Committee Member)

Asam Farid (outside PhD Thesis Reviewer)

Geophysical characterization of Late Quaternary basin deposits and hydrophysical modelling of Lakkimarwat and Domail Plains, Khyber Pakhtunkwa, Pakistan (Report delivered August 1, 2018)

PATENTS

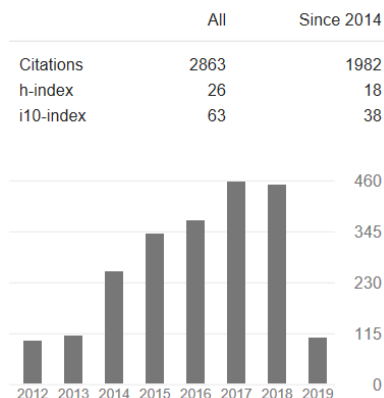
THOMAS M. MISSIMER, Ph.D., P.G.

1. Missimer, T. M., Ng, K. C., and Amy, G., 2011, Processes and apparatus for inhibiting membrane biofouling: U. S. Provisional Patent, No. KAUS.P0064US.P1.
2. Missimer, T. M., Ng, K. C., and Amy, G., 2011, Processes and apparatus for inhibiting membrane biofouling: Issued by the United States Department of Commerce, United States Patent and Trademark Office as Patent No. 9457320, effective 10/04/2016.
3. Missimer, T. M., Ng, K. C., Thu, K., 2014, Geothermal energy development coupled with electric energy generation and multiple desalination processes with aquifer storage: U. S. Preliminary Patent Application No. 61947081 (patent pending).

PUBLICATION METRICS

THOMAS M. MISSIMER, Ph.D., P.G.

Google Scholar tracks about 225 publications and a current “h” factor of 26 has been achieved with an average of over 400 citations per year occurring over the past 5 years (accessed February 4, 2019). A rating index of 35.35 has been achieved in Research Gate (top 92.5% of members) with over 36,000 reads.



Technical review and evaluation of the economics of water desalination: current and future challenges for better water supply sustainability N Ghaffour, TM Missimer, GL Amy Desalination 309, 197-207	605	2013
Arid lands water evaluation and management R Maliva, T Missimer Springer Science & Business Media	224 *	2012
Renewable energy-driven innovative energy-efficient desalination technologies N Ghaffour, S Lattemann, T Missimer, KC Ng, S Sinha, G Amy Applied energy 136, 1155-1165	113	2014
Membrane-based seawater desalination: Present and future prospects G Amy, N Ghaffour, Z Li, L Francis, RV Linares, T Missimer, S Lattemann Desalination 401, 16-21	103	2017
Aquifer storage and recovery and managed aquifer recharge using wells: planning, hydrogeology, design and operation RG Maliva, TM Missimer Schlumberger	91	2010
Water supply development for membrane water treatment facilities TM Missimer CRC Press	84 *	2018
Geologic map of the State of Florida KM Campbell, FR Rupert, JD Arthur, TM Missimer, JM Lloyd, JW Yon, ... Florida Geological Survey	72 *	2001
Unusual calcite stromatolites and pisoids from a landfill leachate collection system RG Maliva, TM Missimer, KC Leo, RA Statom, C Dupraz, M Lynn, ... Geology 28 (10), 931-934	72	2000
Subsurface intakes for seawater reverse osmosis facilities: Capacity limitation, water quality improvement, and economics TM Missimer, N Ghaffour, AHA Dehwah, R Rachman, RG Maliva, G Amy Desalination 322, 37-51	67	2013
Determination of hydraulic conductivity from grain-size distribution for different depositional environments J Rosas, O Lopez, TM Missimer, KM Coulibaly, AHA Dehwah, K Sesler, ... Groundwater 52 (3), 399-413	50	2014
Restoration of wadi aquifers by artificial recharge with treated waste water TM Missimer, JE Drewes, G Amy, RG Maliva, S Keller Groundwater 50 (4), 514-527	46	2012

BOOK PUBLICATIONS (11)

THOMAS M. MISSIMER, Ph.D., P.G.

1. Weaver, R. L., Alhadeff, E. R., Craine, S. T., Maurer, T. K., Missimer, T. M., and Godley, J. S., 1990, Real estate environmental concerns update in Florida: Professional Education Systems, Inc. Seminar Materials, Eau Claire, Wisconsin, 205 p.
2. Missimer, T. M., 1994, Water supply development for membrane water treatment facilities: Lewis Publishers, Inc., Boca Raton, Florida, 253 p.
3. Missimer, T. M., 1996, A lender's guide to environmental liability management: CRC Press/Lewis Publishers, Boca Raton, Florida, 215 p.
4. Conlon, W. J., Duranceau, S. J., Kohli, W. S., Lozier, J. C., Moch, I., Jr., McCellan, S. A., Missimer, T. M., Morin, O. J., Paul, D. H., Pohland, H., Reitz, L. R., Taylor, J. S., and Thompson, D. M., 1999, Manual of Water Supply Practices: Reverse Osmosis and Nanofiltration: Am. Water Works Assoc., Manual M46, 173 pp.
5. Missimer, T. M., and Scott, T. M., editors, 2001, Geology and hydrology of Lee County, Florida (Bogges Memorial Publication): Fla. Geol. Survey Special Publication No. 49, 230 p.
6. Missimer, T. M., 2002, Late Oligocene to Pliocene evolution of the central portion of the South Florida Platform: Mixing of siliciclastic and carbonate sediments: Florida Geological Survey Bull. No. 65, 184 p.
7. Missimer, T. M. (with contributions by Ian Watson, Robert G. Maliva, and Tom Pankratz), 2009, Water supply development, aquifer storage, and concentrate disposal for membrane water treatment facilities, 2nd edition: Methods in Water Resources Evaluation Series No. 1, Schlumberger Water Services, Houston, Texas, 390 p.
8. Maliva, R. G., and Missimer, T. M., 2010, Aquifer storage and recovery and managed aquifer recharge: Planning, hydrogeology, design, and operation: Methods in Water Resources Evaluation Series No. 2, Schlumberger Corporation, Houston, Texas, 578 p.
9. Maliva, R. G., and Missimer, T. M., 2012, Arid lands water evaluation and management: Berlin, Springer-Verlag, 1076 p., DOI: 10.1007/973-3-642-29104 (all 40 chapters copyrighted individually).
10. Missimer, T. M., Jones, B., and Maliva, R. G., eds., 2015, Intakes and outfalls for seawater reverse osmosis desalination facilities: Innovations and environmental impacts: Springer, New York, Doi: 10.1007/978-3-319-13203-7, 544 p.
11. Koch, M, and Missimer, T. M., eds., 2016, Water resources assessment and management in drylands: MDPI, Basel, Switzerland, 300 pp.

PEER-REVIEWED JOURNAL PUBLICATIONS (107)

THOMAS M. MISSIMER, Ph.D., P.G.

1. Missimer, T. M., 1973, Growth rates of beach ridges on Sanibel Island, Florida: Trans. of the Gulf Coast Assoc. of Geological Societies, Vol. 23, pp. 383-388.
2. Missimer, T. M., 1973, Depositional history of Sanibel Island, Florida: Coastal Research Notes, v. 3, no. 11, p. 13-14.
3. Missimer, T. M., 1978, The Tamiami Formation - Hawthorn Formation contact in Southwest Florida: Florida Scientist, V. 41, pp. 31-38.
4. Peck, D. M., Missimer, T. M., Slater, D. H., Wise, S. W., and O'Donnell, T. H., 1979, Late Miocene glacio-eustatic lowering of sea level: Evidence from the Tamiami Formation of South Florida: Geology, V. 7, pp. 285-288.
5. Peck, D. M., Slater, D. H., Missimer, T. M., Wise, S. W., Jr., and O'Donnell, T. H., 1979, Stratigraphy and paleoecology of the Tamiami Formation in Lee and Hendry counties, Florida: Trans. of the Gulf Coast Assoc. of Geological Societies, Vol. 29, P. 329-341.
6. Missimer, T. M., 1982, Effects of water quality changes on reverse osmosis systems: The Johnson Drillers Journal, 2nd quarter, p. 11-15.
7. Workman, R. W., Inge, R., and Missimer, T. M., 1991, Creation of habitat for listed species in limerock mine restoration: Restoration and Management Notes, v. 9, No. 2.
8. Missimer, T. M., Walker, C. W., and Bloetscher, F., 1992, Use of aquifer storage and recovery technology to improve membrane treatment plant efficiency, Collier County, Florida: Desalination, v. 87, p. 269-280.
9. Missimer, T. M., 1993, The search for groundwater contamination: Discovery, verification, and remediation cost estimation: Jour. of Environmental Permitting, Winter 1992/1993, p. 91-102.
10. Missimer, T. M., 1994, Groundwater as a feedwater source for membrane treatment plants: Hydrogeologic controls on water quality variation with time: Desalination, v. 98, p. 451-457.
11. Wright, R. R., and Missimer, T. M., 1995, Reuse: The U.S. experience and trend direction: The International Desalination & Water Reuse Quarterly, v. 5, no. 3, p. 2
12. Missimer, T. M., and Ginsburg, R. N., 1998, Homogenized carbonates and siliciclastics in the Tertiary of Southwest Florida: Gulf Coast Assoc. of Geological Societies Trans., v. 48, p. 263-274.
13. Wright, R. R., and Missimer, T. M., 1999, Pretreatment cost evaluation of surface water versus alternative intake systems for seawater membrane water treatment plants: The International Desalination & Water Reuse Quarterly, v. 8, no. 4, p. 17-19.
14. Guertin, L. A., Missimer, T. M., and McNeill, D. F., 2000, Correlative sequence boundaries and their hiatal duration from the South Florida Platform interior to platform edge: Chronostratigraphic record of Oligocene - Pliocene mixed carbonate/siliciclastic sediments: Sedimentary Geology, v. 134, p. 1-26.

15. Missimer, T. M., 1999, Raw water quality: The critical design factor for brackish water reverse osmosis treatment facilities: *Desalination & Water Reuse Quarterly*, v. 9, no. 1, p. 41-47.
16. Missimer, T. M., 1999, Sequence stratigraphy of the Late Miocene – Early Pliocene Peace River Formation, southwestern Florida: *Gulf Coast Assoc. of Geol. Soc., Trans.*, v. 49, p. 358-368.
17. Maliva, R. G., Missimer, T. M., and Dickson, J. A. D., 2000, Skeletal aragonite Neomorphism in Plio-Pleistocene sandy limestones and sandstones: *Sedimentary Geology*: v. 136, p. 147-154.
18. Suratt, W., Maimone, M., and Missimer, T. M., 2000, Potable water desalination in America: *American City & County*, January 2000, p. 61-70.
19. Missimer, T. M., Maliva, R. G., Walker, C. W., and Owosina, E., 2000, Anatomy of a nearshore mixed siliciclastic-carbonate deposit, the Miami Limestone of Southeastern Broward County, Florida: *Gulf Coast Assoc. of Geol. Soc. Trans.*, v. L, p. 111-128.
20. Maliva, R. G., Missimer, T. M., Leo, K. C., Stratom, R. A., Dupraz, C., Lynn, M., and Dickson, J.A.D., 2000, Unusual calcite stromatolites from a landfill leachate collection system: *Geology*, v. 28, no. 10, p. 931-934.
21. Maliva, R. G., Kennedy, G. P., Martin, W. K., Missimer, T. M., Owosina, E. S., and Dickson, J. A. D., 2002, Dolomitization induced aquifer heterogeneity: Evidence from the Upper Floridan Aquifer, Southwest Florida: *Geological Society of America Bulletin*, v. 114, No. 4, p. 419-427.
22. Maliva, R. G., Missimer, T. M., Walker, C. W., Owosina, E., Dickson, J. A. D., and Fallick, A. E., 2001, Carbonate diagenesis in a high transmissivity coastal aquifer, Biscayne Aquifer, southeastern Florida: *Sedimentary Geology*, v. 143, p. 287-301.
23. Missimer, T. M., 2001, Siliciclastic facies belt formation and the early Oligocene to middle Miocene partial drowning of the southern Florida Platform: *Gulf Coast Assoc. of Geological Societies Transactions*, v. LI, p. 229-238.
24. Missimer, T. M., Guo, W., Walker, C. W., and Maliva, R. G., 2002, Hydraulic and density considerations in the design of aquifer storage and recovery systems: *Florida Water Resources Journal*, February 2002, p. 30-36.
25. Missimer, T. M., 2002, Late Oligocene sequence stratigraphy (Lower Arcadia Formation) of southwest Florida: *Gulf Coast Association of Geological Societies Transactions*, v. 52, p. 739-751.
26. Missimer, T. M., Martin, W. K., and Guo, W., 2003, Hydraulic entrapment of relict saline-water within semi-confined aquifers in southwest Florida: *Gulf Coast Assoc. of Geological Societies Transactions*, v. 53, p. 739-751.
27. Maliva, R. G., Martin, W. K., and Missimer T. M., 2003, Aquifer storage and recovery for management and supply of water to meet recreational irrigation demands: *Florida Water Resources Journal*, October 2003, p. 36-40.

28. Missimer, T. M., and Tobias, A. E., 2004, Geology and paleontology of a lower Caloosahatchee Formation deposit near Lehigh, Florida: *Florida Scientist*, v. 67, No.1, p. 48-62.
29. Missimer, T. M., and Maliva, R. G., 2004, Tectonically-induced fracturing, folding, and groundwater flow in South Florida: *Gulf Coast Association of Geological Societies Transactions*, v. 54, P. 443-459.
30. Missimer, T. M., and Maliva, R. G., 2005, Diagenesis of the Anastasia Formation in eastern coastal Florida: Beach rock or bed-scale cementation: *Gulf Coast Association of Geological Societies Transactions*, v. 55, p. 543-553.
31. Maliva, R. G., Guo, W., and Missimer, T. M., 2005, Hydrogeology and aquifer storage and recovery system performance: *Gulf Coast Association of Geological Societies Transactions*, v. 55, 473-485.
32. Missimer, T. M., and Maliva, R. G., 2006, Late Miocene to early Pliocene fluvial transport of siliciclastic sediment onto the southern Florida Platform: *Gulf Coast Association of Geological Societies Transactions*, v. 56, p. 605-612.
33. Maliva, R. G., Missimer, T. M., and Guo, W., 2006, Structural deformation of the southern Florida Peninsula during the Late Miocene to Early Pliocene: Geophysical log evidence: *Gulf Coast Association of Geological Societies Transactions*, v. 56, p. 527-538.
34. Maliva, R. G., Guo, W., and Missimer, T. M., 2006, Aquifer storage and recovery: Recent hydrogeological advances and system performance: *Water Environment Research*, v. 78, no. 13, p. 2428-2435.
35. Missimer, T. M., Maliva, R. G., and Guo, W., 2007, Sustainability and the management of water resources in Florida: *Florida Water Resources Journal*, October 2007, p. 20-26.
36. Maliva, R. G., Guo, W., and Missimer, T. M., 2007, Vertical migration of municipal wastewater in deep injection well systems, South Florida, USA: *Hydrogeology Journal*, v. 15, p. 1387-1396.
37. Maliva, R. G., and Missimer, T. M., 2008, ASR, useful storage and the myth of residual pressure (editorial): *Ground Water*, v. 46, no. 2, p. 171.
38. Maliva, R. G., Clayton, E. A., and Missimer, T. M., 2009, Application of advanced borehole geophysical logging to managed aquifer recharge investigations: *Hydrogeology Journal*, v. 17, no. 6, p. 1547-1556, DOI 10.1007/s10040-009-04737-z.
39. Maliva, R. G., Missimer, T. M., Clayton, E. A., and Dickson, J. A. D., 2009, Diagenesis and porosity preservation in Eocene microporous limestones, South Florida, USA: *Sedimentary Geology*, v. 217, 10 p.
40. Missimer, T. M., 2009, Public health and global sustainability rely on desalination and water reuse: *IDA Journal: Desalination and Water Reuse*, v. 1, no. 1, p. 16.

41. Missimer, T. M., Manahan, W. S., Maliva, R. G., Guo, W., Furland, L., and Champlin, T., 2009, Water supply for a new 17.3 MGD (65,000 m³/day) brackish-water RO facility for the City of Hialeah, Florida: *Desalination and Water Treatment*, v. 7, p. 78-85.
42. Maliva, R. G., and Missimer, T. M., 2010, Self-cleaning beach-gallery design for seawater desalination plants: *Desalination and Water Treatment*, v. 13, p. 88-95, DOI: 10.5004/dwt.2009.1053.
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