

List of Awards, Papers, Presentations, and Other Public Education for Nitrogen Reduction Strategies Study

Awards

	Date	Awarding Organization	Title	To
1	November, 2015	Florida Institute of Consulting Engineers	2016 Engineering Excellence Grand Award	Hazen and Sawyer

Conference Papers

	Date	Organization	Title	By
1	November 5, 2015	2015 Onsite Wastewater Mega-Conference: National Onsite Wastewater Recycling Association and State Onsite Sewage Regulators Alliance	The State of Florida's Innovative Approach to Nitrogen Reduction	DOH
2	November 5, 2015	2015 Onsite Wastewater Mega-Conference: National Onsite Wastewater Recycling Association and State Onsite Sewage Regulators Alliance	Performance Evaluation of In-tank Passive Nitrogen Reduction Systems	Hazen and Sawyer
3	November 5, 2015	2015 Onsite Wastewater Mega-Conference: National Onsite Wastewater Recycling Association and State Onsite Sewage Regulators Alliance	Performance Evaluation of In-ground Passive Nitrogen Reduction Systems	Hazen and Sawyer
4	November 11, 2014	National Onsite Wastewater Recycling Association-Colorado Professionals in Onsite Wastewater Joint Annual Conference	Full-scale Performance of a Two-Stage Biofiltration System for Reduction of Nitrogen	Hazen and Sawyer
5	November 11, 2014	National Onsite Wastewater Recycling Association-Colorado Professionals in Onsite Wastewater Joint Annual Conference	Pilot Study of Two-Stage Biofiltration for Reduction of Nitrogen from OWS	Hazen and Sawyer

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	Date	Organization	Title	By
6	September 30, 2014	Water Environment Federation Annual Technical Conference	Backyard BNR: Passive Nitrogen Reduction System Research for Onsite Wastewater Treatment	Hazen and Sawyer
7	April 7, 2014	Soil Science Society of America Onsite Wastewater Conference	FOSNRS 1: The Florida Onsite Sewage Nitrogen Reduction Strategies (FOSNRS) Study, Project Overview	DOH
8	April 7, 2014	Soil Science Society of America Onsite Wastewater Conference	FOSNRS 2: Passive, 2-Stage Biofilter Treatment Systems for Reduction of Nitrogen from OWS - Pilot Study Results	Hazen and Sawyer
9	April 7, 2014	Soil Science Society of America Onsite Wastewater Conference	FOSNRS 3: The Performance of a Full-scale 2 Stage Passive Biofilter System	Hazen and Sawyer
10	April 7, 2014	Soil Science Society of America Onsite Wastewater Conference	FOSNRS 4: Water and Nitrogen Balance for Mounded Drip Irrigation Systems Receiving Septic Tank Effluent	Hazen and Sawyer
11	April 7, 2014	Soil Science Society of America Onsite Wastewater Conference	FOSNRS 5: Quantifying Rates of Denitrification in the Biozone and Shallow Subsurface within Soil Treatment Units Used for Wastewater Reclamation	Hazen and Sawyer
12	April 7, 2014	Soil Science Society of America Onsite Wastewater Conference	FOSNRS 6: STUMOD-FL - A Tool for Predicting Fate and Transport of Nitrogen in Soil Treatment Units in Florida	Hazen and Sawyer
13	April 7, 2014	Florida Water Resources Conference (FWRC)	Two-Stage Passive Biofilters for On-site Wastewater Nutrient Reduction	Hazen and Sawyer
14	April 29, 2013	Florida Water Resources Conference (FWRC)	The Florida Onsite Sewage Nitrogen Reduction Strategies (FOSNRS) Study: Project Overview and Preliminary Results	Hazen and Sawyer
15	April 2-5, 2012	National Onsite Wastewater Recycling Association Annual Conference	Nitrogen Removal Using Unsaturated and Saturated Media Biofilters: Pilot Testing and Simulation Results	Hazen and Sawyer

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Conference Presentations

	Date	Organization	Title	By
1	November 5, 2015	2015 Onsite Wastewater Mega-Conference: National Onsite Wastewater Recycling Association and State Onsite Sewage Regulators Alliance	The State of Florida's Innovative Approach to Nitrogen Reduction	DOH
2	November 5, 2015	2015 Onsite Wastewater Mega-Conference: National Onsite Wastewater Recycling Association and State Onsite Sewage Regulators Alliance	Performance Evaluation of In-tank Passive Nitrogen Reduction Systems	Hazen and Sawyer
3	November 5, 2015	2015 Onsite Wastewater Mega-Conference: National Onsite Wastewater Recycling Association and State Onsite Sewage Regulators Alliance	Performance Evaluation of In-ground Passive Nitrogen Reduction Systems	Hazen and Sawyer
4	September 30, 2015	Maryland Groundwater Symposium	Backyard BRN: An Onsite Wastewater Treatment Approach for Nitrogen Sensitive Watersheds	Hazen and Sawyer
5	September 10, 2015	American Planning Association's Florida Conference	Addressing Concentrations of Septic Systems	DOH, Department of Economic Opportunity, and Florida Atlantic University
6	July 14, 2015	79th National Environmental Health Association Annual Education Conference	Florida Onsite Sewage Nitrogen Reduction Strategies Project Overview	DOH
7	July 14, 2015	79th National Environmental Health Association Annual Education Conference	Quantifying Rates of Denitrification in the Biozone and Shallow Subsurface	Hazen and Sawyer

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	Date	Organization	Title	By
8	July 14, 2015	79th National Environmental Health Association Annual Education Conference	Reduction of Nitrogen from OWS: Performance of Tank-based Systems	Hazen and Sawyer
9	July 14, 2015	79th National Environmental Health Association Annual Education Conference	Reduction of Nitrogen from OWS: Performance of In-ground Systems	Hazen and Sawyer
10	July 14, 2015	79th National Environmental Health Association Annual Education Conference	STUMOD-FL: A Practical Tool for Predicting Nitrogen Fate and Transport in Soil Treatment Units	Hazen and Sawyer
11	November 11, 2014	National Onsite Wastewater Recycling Association-Colorado Professionals in Onsite Wastewater Joint Annual Conference	Full-scale Performance of a Two-Stage Biofiltration System for Reduction of Nitrogen	Hazen and Sawyer
12	November 11, 2014	National Onsite Wastewater Recycling Association-Colorado Professionals in Onsite Wastewater Joint Annual Conference	Pilot Study of Two-Stage Biofiltration for Reduction of Nitrogen from OWS	Hazen and Sawyer
13	September 30, 2014	Water Environment Federation Annual Technical Conference	Backyard BNR: Passive Nitrogen Reduction System Research for Onsite Wastewater Treatment	Hazen and Sawyer
14	September 7, 2014	Water Reuse Symposium	Onsite Reuse: A Shortcut to Reclaimed Water Irrigation	Hazen and Sawyer
15	July 25, 2014	Florida Home Builders Association Summer Builders Conference	Wastewater Nitrogen Management in Florida: Septic vs. Sewer	Hazen and Sawyer
16	April 7, 2014	Soil Science Society of America Onsite Wastewater Conference	FOSNRS 1: The Florida Onsite Sewage Nitrogen Reduction Strategies (FOSNRS) Study, Project Overview	Hazen and Sawyer

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	Date	Organization	Title	By
17	April 7, 2014	Soil Science Society of America Onsite Wastewater Conference	FOSNRS 2: Passive, 2-Stage Biofilter Treatment Systems for Reduction of Nitrogen from OWS - Pilot Study Results	Hazen and Sawyer
18	April 7, 2014	Soil Science Society of America Onsite Wastewater Conference	FOSNRS 3: The Performance of a Full-scale 2 Stage Passive Biofilter System	Hazen and Sawyer
19	April 7, 2014	Soil Science Society of America Onsite Wastewater Conference	FOSNRS 4: Water and Nitrogen Balance for Mounded Drip Irrigation Systems Receiving Septic Tank Effluent	Hazen and Sawyer
20	April 7, 2014	Soil Science Society of America Onsite Wastewater Conference	FOSNRS 5: Quantifying Rates of Denitrification in the Biozone and Shallow Subsurface within Soil Treatment Units Used for Wastewater Reclamation	Hazen and Sawyer
21	April 7, 2014	Soil Science Society of America Onsite Wastewater Conference	FOSNRS 6: STUMOD-FL - A Tool for Predicting Fate and Transport of Nitrogen in Soil Treatment Units in Florida	Hazen and Sawyer
22	April 7, 2014	Florida Water Resources Conference (FWRC)	Two-Stage Passive Biofilters for On-site Wastewater Nutrient Reduction	Hazen and Sawyer
23	April 29, 2013	Florida Water Resources Conference (FWRC)	The Florida Onsite Sewage Nitrogen Reduction Strategies (FOSNRS) Study: Project Overview and Preliminary Results	Hazen and Sawyer
24	April 2-5, 2012	National Onsite Wastewater Recycling Association Annual Conference	Nitrogen Removal Using Unsaturated and Saturated Media Biofilters: Pilot Testing and Simulation Results	Hazen and Sawyer
25	February 15-16, 2012	University of Florida Water Symposium	Effective, User-Friendly Nitrogen Reducing Onsite Wastewater Systems	Hazen and Sawyer
26	October 13, 2011	Florida Industrial and Phosphate Research Institute (FIPR) 26th Annual Phosphate Conference	Onsite Wastewater Treatment: Nutrient Impacts and Solutions	Hazen and Sawyer

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	Date	Organization	Title	By
27	June 18, 2011	National Environmental Health Association Annual Education Conference – OWS Summit	Effective, User-Friendly Nitrogen Reducing Onsite Wastewater Systems	Hazen and Sawyer
28	June 18, 2011	National Environmental Health Association Annual Education Conference – Onsite Wastewater Systems Summit	Evaluation of Nitrogen Reduction from Onsite Wastewater Treatment Systems as Provided by Soils and Shallow Groundwater	Hazen and Sawyer

Public education meetings/presentations/seminars

	Date	Organization	Title	By
1	October 22, 2015	Santa Fe River Springs Working Group	Nitrogen Reduction Strategies Study	DOH
2	October 22, 2015	Technical Review and Advisory Panel	Discussion on Rule-making for Nitrogen Reduction	DOH
3	October 19, 2015	Wekiva Commission Meeting	Update On Passive Nitrogen Reduction Project	DOH
4	October 6, 2015	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH
5	August 31, 2015	Wakulla Springs Basin Management Plan Technical Meeting	Florida Onsite Sewage Nitrogen Reduction Strategies Study	DOH
6	July 31, 2015	Florida Onsite Wastewater Association Annual Education Conference	Update On Passive Nitrogen Reduction Project	Hazen and Sawyer
7	July 28, 2015	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH, Hazen and Sawyer
8	July 15, 2015	Department of Health Statewide Environmental Health Program Employees	Nutrient Management and How a Map can Impact Florida's Future	DOH
9	March 19, 2015	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH

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	Date	Organization	Title	By
10	March 3, 2015	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH
11	February 20, 2015	Wekiva Commission Meeting	Update On Passive Nitrogen Reduction Project	DOH
12	January 22, 2015	Silver Springs Basin Management Action Plan Technical Discussion Group	Florida Water Management Inventory and Determination of Nitrogen Loading	DOH
13	January 12, 2015	Fallow Fields Working Group	Overview of the Florida Onsite Sewage Nitrogen Reduction Strategies Study	Hazen and Sawyer
14	November 4, 2014	Florida Water Environment Association Big Bend Chapter	Innovations & Regulations for Septic Systems for Environmentally Sensitive Areas	Hazen and Sawyer
15	November 4, 2014	Florida Water Environment Association Big Bend Chapter Winter Seminar	Innovations & Regulations for Septic Systems for Environmentally Sensitive Areas	DOH
16	September 25, 2014	Technical Review and Advisory Panel	Update On Passive Nitrogen Reduction Project	Hazen and Sawyer
17	August 28, 2014	Florida Environmental Health Association Halifax District Training	Passive Ways to Reduce Nitrogen in Onsite Wastewater Treatment Systems, Part II	Hazen and Sawyer
18	August 21, 2014	Florida Water Environment Association West Coast Chapter Luncheon	Backyard BNR: The Florida Onsite Sewage Nitrogen Reduction Strategies (FOSNRS) Study	Hazen and Sawyer
19	July 29, 2014	Florida Environmental Health Association Annual Education Meeting	Getting Things Done: How government, academia, and private industry collaborate to advance the onsite sewage field in Florida	DOH
20	March 28, 2014	University of South Florida Seminar	Nutrient Removal in Onsite Wastewater Treatment Systems: Two-Stage Passive Biofilters for Nitrogen Reduction	Hazen and Sawyer

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	Date	Organization	Title	By
21	February 26, 2014	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH
22	December 17-18, 2013	Chesapeake Bay Scientific and Technical Advisory Committee and National Association of Home Builders Workshop	Florida Onsite Sewage Nitrogen Reduction Strategies (FOSNRS) Study: Project Overview and Preliminary Results	Hazen and Sawyer
23	October 22, 2013	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH, Hazen and Sawyer
24	September 11, 2013	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH, Hazen and Sawyer
25	August 29, 2013	Florida Environmental Health Association Halifax District Training	Passive Ways to Reduce Nitrogen in Onsite Wastewater Treatment Systems	Hazen and Sawyer
26	August 29, 2013	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH
27	May 30, 2013	Santa Fe River Springs Working Group	Florida Onsite Sewage Nitrogen Reduction Strategies Study	DOH
28	May 15, 2013	Treasure Coast Training	Passive Ways to Reduce Nitrogen in Onsite Wastewater Treatment Systems	Hazen and Sawyer
29	March 28, 2013	Wakulla Springs Basin Management Plan Technical Meeting	Florida Onsite Sewage Nitrogen Reduction Strategies Study	DOH
30	December 11, 2012	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH
31	November 16, 2012	Technical Review and Advisory Panel	Update On Passive Nitrogen Reduction Project	DOH
32	November 14, 2012	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH

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	Date	Organization	Title	By
33	September 12, 2012	Department of Health Statewide Environmental Health Program Employees	Current Research Topics in Florida's Onsite Sewage Treatment and Disposal System Program	DOH
34	September 7, 2012	Florida Environmental Health Association Annual Education Meeting	Passive Ways to Reduce Nitrogen in Onsite Wastewater Treatment Systems	Hazen and Sawyer
35	August 30, 2012	Florida Environmental Health Association Gulf Coast District Training	DOH Ongoing Research Including Passive Nitrogen Reduction	DOH
36	August 3, 2012	Florida Onsite Wastewater Association Annual Education Conference	Research Topics in Florida's OSTDS Program	DOH
37	June 21, 2012	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH, Hazen and Sawyer
38	April 10, 2012	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH
39	March 22, 2012	Lemon Bay League Seminar	Nitrogen and Onsite Wastewater Treatment: Problems and Solutions	Hazen and Sawyer
40	January 4, 2012	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH, Hazen and Sawyer
41	November 15, 2011	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH
42	September 8, 2011	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH
43	April 20, 2011	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH
44	April 4, 2011	University of South Florida Seminar	Onsite Wastewater Treatment: Nutrient Impacts and Solutions	Hazen and Sawyer
45	March 24, 2011	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH

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	Date	Organization	Title	By
46	December 10, 2010	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH, Hazen and Sawyer
47	November 5, 2010	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH
48	June 10, 2010	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH, Hazen and Sawyer
49	March 23, 2010	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH
50	December 16, 2009	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH
51	September 10, 2009	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH
52	July 1, 2009	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH, Hazen and Sawyer
53	May 27-28, 2009	Research Review and Advisory Committee Meeting	Nitrogen Reduction Strategies Study Prioritization Meeting	DOH, Hazen and Sawyer
54	February 3, 2009	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH
55	January 5, 2009	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH
56	December 2, 2008	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH
57	November 6, 2008	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH
58	October 9, 2008	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH
59	July 30, 2008	Research Review and Advisory Committee Meeting	Update On Nitrogen Reduction Strategies Study	DOH

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Newsletters and Other Articles

	Date	Organization	Title	By
1	2014, Volume 2	Florida Onsite Wastewater Association, The Voice of Onsite Wastewater & Portable Restroom Industry	The Florida Onsite Sewage Nitrogen Reduction Strategies (FOSNRS) Study: Project Overview and Preliminary Results	Hazen and Sawyer
2	2011, Volume 3	Florida Onsite Wastewater Association, The Voice of Onsite Wastewater & Portable Restroom Industry	2011 Priorities for Research for the Bureau of Onsite Sewage Programs.	DOH
3	2010, June	Florida Onsite Wastewater Association, The Voice of Onsite Wastewater & Portable Restroom Industry	Research: Cornerstone of Progress.	DOH
4	2009, December	Florida Onsite Wastewater Association, The Voice of Onsite Wastewater & Portable Restroom Industry	Summary of September 10, 2009 Research Review and Advisory Committee (RRAC) Meeting.	DOH
5	2009, March	Florida Onsite Wastewater Association, The Voice of Onsite Wastewater & Portable Restroom Industry	Onsite Program Update on the 2008 Legislative Mandate.	DOH

Legislative Reports

	Date	Title
1	April 2015	Update on the Florida Onsite Sewage Nitrogen Reduction Strategies Study
2	February 2014	Status Report: Update on the Florida Onsite Sewage Nitrogen Reduction Strategies Study

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	Date	Title
3	February 2015	Status Report on Phase II and Phase III of the Florida Onsite Sewage Nitrogen Reduction Strategies Study
4	October 2012	Status Report on Phase II and Phase III of the Florida Onsite Sewage Nitrogen Reduction Strategies Study
5	May 2012	Status Report on Phase II and Phase III of the Florida Onsite Sewage Nitrogen Reduction Strategies Study
6	February 2012	Progress Report on Phase II and Phase III of the Florida Onsite Sewage Nitrogen Reduction Strategies Study
7	May 2011	Status Report on Phase II of the Florida Onsite Sewage Nitrogen Reduction Strategies Study
8	February 2011	Interim Study and Report on Phase II of the Florida Onsite Sewage Nitrogen Reduction Strategies Study
9	May 2010	Final Study and Report on Phase I of the Florida Onsite Sewage Nitrogen Reduction Strategies Study (2008-2010)
10	February 2010	Interim Study and Report on the Florida Onsite Sewage Nitrogen Reduction Strategies Study
11	February 2009	Progress Report on Nitrogen Reduction Strategies for Onsite Sewage Treatment and Disposal Systems