
Curriculum Vitae

JUNESEOK LEE, Ph.D., P.E.

Associate Professor of Civil and Environmental Engineering

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EDUCATION

Virginia Tech (Blacksburg, VA) May 2008
Ph.D. in Environmental Water Resources Program, Department of Civil and Environmental Engineering

- Dissertation title: Two Issues in Premise Plumbing; Contamination Intrusion at Service Lines and Choosing Alternative Plumbing Material
- Co-Advisors: Dr. Andrea Dietrich, Dr. Vinod Lohani and Dr. G.V. Loganathan (in memoriam)

Virginia Tech (Blacksburg, VA) Dec 2004
M.S., Environmental Water Resources Program in Civil and Environmental Engineering

- Thesis title: Decision Support System for Optimal Replacement of Plumbing System
- Advisor: Dr. G.V. Loganathan (in memoriam)

Korea University (Seoul, South Korea) Aug 2001
Bachelor of Science, Civil and Environmental Engineering

EMPLOYMENT

Manhattan College (Riverdale, NY) Aug 2018 - Present
Associate Professor, Department of Civil and Environmental Engineering

University of Delaware (Newark, DE) Jan 2017 – Jan 2018
Visiting Professor, Department of Civil and Environmental Engineering

San José State University (San José, CA) Aug 2018 – Aug 2018
Assistant/ Associate Professor, Department of Civil and Environmental Engineering

PPI (Professional Publications, Inc.) Jan 2012 - Dec 2013

- *Professional Engineering Exam Water Resources Instructor (both On-line and In-class)*
- *California Surveying Exam Instructor (On-line)*
- *Fundamental Engineering Exam Instructor (In-class)*

Virginia Tech (Blacksburg, VA) Aug 2002- May 2008

- *Lab Instructor, CEE2814 Measurement (Surveying), Department of Civil and Environmental Engineering*
- *Graduate Research Assistant funded from NSF Grant DMI-0329474: 'Towards Sustainable Drinking Water Infrastructure'/ AWWARF Project #301: 'Non-Uniform Corrosion in Copper Piping - Assessment'*

Daewoo Eng. & Construction Co., Ltd (Seoul, South Korea) Jul 2001- Dec 2001
Staff, Overseas Civil Project Team

Republic of Korea Marine Corps Jan 1996-Mar 1998
Sergeant, Lance Corporal

PROFESSIONAL REGISTRATION

Professional Engineer (P.E.) of Civil Engineering, State of California (#78606) 2011

AWARDS

2018 American Water Works Association (AWWA) Best Paper Award June 2018
AWWA Distribution & Plant Operations Division

- **Lee, J.** (corresponding author) & Meehan, M. 'Survival Analysis of Water Service Lines Utilizing Nationwide Failure Dataset' JAWWA, 109(9)

SJSU College of Engineering (COE) Jul 2016
Professional Career Development Award

SJSU COE Jul 2016
Faculty Release Time Award (0.4 RTA)

SJSU COE Dec 2015
Professional Career Development Award

University of Central Florida May 2015
Technical Workshop: Bridge between U.S. and Korea Infrastructure Evaluation – Current Status of ASCE Report Card for America's Infrastructure and Recommendations for Developing Korea Report Card

SJSU COE May 2015
Faculty Release Time Award (0.6 RTA)

SJSU May 2015
Research, Scholarship and Creative Activity (RSCA) Award

SJSU Civil & Environmental Engineering (CEE) May 2015
Professional Career Development Award

SJSU CEE Feb 2015
Lorell Faculty Development Award

California Water Service Co. Chair Professorship Jun 2014
Named as California Water Service Co. (Cal Water) Professorship to lead the collaborative with students and the Cal Water technical Staff to solve a wide range of challenges confronting the water industry

SJSU Research Foundation (SJSURF) May 2013
2013 Young Investigator Award

SJSU COE May 2012
Davidson Professorship Award

SJSU COE May 2012
Junior Professorship Award

American Society of Civil Engineers (ASCE) Excellence in Civil Engineering Education (ExCEED) Fellowship 2011 ASCE ExCEED Fellow Jul 2011

Selected to attend NCAR Faculty Workshop: Young Scientist Jun 2010
Invited to the National Center for Atmospheric Research (NCAR) Early Career Scientist Assembly Junior Faculty Forum: "Climate and Water: Advancing adaptation science and strategies for water resource vulnerability from climate variability and change"

Virginia Tech CEE Graduate Scholarship Aug 2007

GRANTS

External

Funding Agency	Amount	Objectives of the project
EPA (Oct 2016 – Sept 2019)	Total: \$1,989,000; MC: \$25,000	Right Sizing Tomorrow's Water Systems for Efficiency, Sustainability, and Public Health (R836890); Purdue University, Michigan State University, and San Jose State University - To develop Integrative Hydraulic-Water Quality Predictive Tools that closely mimic residential buildings.
California Water Service Company (June 2014 – May 2019)	\$450,000 (SJSU Tower Foundation)	To lead a research collaboration between University students and the Cal Water Technical Staff to address a broad range of challenges confronting the drinking water industry: 1. Enterprise Decision Support System for Water Mains Integrity Program 2. Multi-Objective Water Distribution System Control of Water Quality, Cost, Energy, and Reliability Constraints 3. Optimal Flushing Program 4. Impacts Analysis of Hydraulic Transients 5. Optimal Strategies for Well Rehabilitation: Risk and Cost Benefit Assessment 6. On-line Real Time Water Distribution System Monitoring to Optimize Water Quality 7. Optimization of General Rate Case considering the True Cost and Value of Water/ Water Production/ Ratemaking
ASCE ExCEED Fellowship (July 2011)	\$2,075	Selected as the ASCE 2011 ExCEED fellow
Hewlett-Packard (Jan 2011)	\$5,000	Life Cycle Assessment of Piping Material Research Support Gift
California Water Service Company (January 2011 – May 2014)	\$100,000	'Water Demand Analysis due to Water Meter Installation in California', Single- PI (Juneseok Lee).

National Science Foundation (August 2009 – December 2011)	\$ 149,957	'Integrating Sustainability into Lower Division Core Engineering Courses', as PI (Juneseok Lee) with 3 other co-PIs
National Center for Atmospheric Research (July 2010)	\$1,100 (Travel fund)	Invited as young scientist to NCAR (National Center for Atmospheric Research) on Water- Climate area conference
EXTERNAL TOTAL		\$733,132

Internal (Competitive)

California State University (CSU)	
2012 CSU Water Resources and Policy Initiative (WRPI)	Research Proposal 0.2 Release Time during spring 2012
2011 CSU Research Grant	0.2 Release Times during fall 2011 and spring 2012 plus \$2,500
WRPI Proposal Committee	Stipend \$500
California State University	Research Funds (AY 2008-2009), Total amounts: \$7.493
WRPI- Water Resources Policy Initiatives (2009 & 2011)	Conference Travel Funds \$1,000
San José State University (SJSU)	
SJSU COE	Professional Development Grant (\$1,500)
SJSU COE	Research Incentive Program 2016-2017, 0.4 Release Time
SJSU COE	Research Incentive Program 2015-2016, 0.6 Release Time
SJSU UNIV	2015 RSCA (Summer Scholarship \$5,000)
SJSU CEE	2015 SJSU CEE Professional/ Career Development Awards (\$4,000)
SJSU CEE	2015 Lorell Faculty Development Grant (\$350)
SJSU COE	2014-2015 SJSU COE Scholarly Activities Incentive Program, 0.2 Release Time during fall 2014
SJSURF	2013 San Jose State University Young Investigator Award, Cash Prize \$1,000
SJSU UNIV	RSCA Research Grant (AY 2012-2013), 0.2 Release Time during fall 2013
SJSU COE	Davidson Professorship (AY 2012-2013), total \$1,500
SJSU COE	Junior Professorship Program (\$16,000) plus \$3,000 for professional development
SJSU COE	Laboratory Refreshment Grants (AY 2010-2011), total amounts: \$48,324
SJSU COE	Professional Laboratory Development Support (AY 2008-2010), total amounts: \$25,000
SJSU COE	Faculty Development Grant (AY 2009-2010), total amounts: \$7,450
SJSU COE	Summer Supplement Grant (AY 2009), total amounts: \$6,000
SJSU COE	Research Planning Grants (AY 2008-2009), total amounts: \$10,000
INTERNAL TOTAL	\$127,267 plus 1.6 Release time (for research)

GRANT TOTAL (INTERNAL + EXTERNAL): \$860,399

PEER-REVIEWED JOURNAL ARTICLES

(*indicates SJSU research assistant; †denotes postdoctoral student)

1. Gungor-Demirci, G. †, **J. Lee**, J. Keck, and R. Guzzetta (2018), Determinants of Non-Revenue Water for a California Water Utility, *Journal of Water Supply: Research and Technology - AQUA* (2018) 67 (3): 270-278. <https://doi.org/10.2166/aqua.2018.152>
2. Garcia, D.G*, **J. Lee**, J. Keck, P. Yang, and R. Guzzetta (2018), Hot Spot Analysis of Water Mains Failures in California, *Journal American Water Works Association*, May 2018 <https://doi.org/10.1002/awwa.1039>
3. Gungor-Demirci, G. †, **J. Lee**, J. Keck (2018), Measuring water utility performance using nonparametric linear programming, *Civil Engineering and Environmental Systems*, 34:3-4, 206-220, DOI: 10.1080/10286608.2018.1425403
4. Gungor-Demirci, G. †, **J. Lee**, J. Keck (2018), Assessing the Performance of a California Water Utility Using Two-Stage Data Envelopment Analysis, *Journal of Water Resources Planning and Management, ASCE*, Vol (144)4, April 2018
5. **Lee, J.** and M. Meehan (2017), Survival Analysis of Service Line Materials utilizing Nationwide Datasets, *Journal American Water Works Association*, 109(9)
* **Best Paper Award – 2018 AWWA Distribution & Plant Operations Division**
6. **Lee, J.**, K. Bae, and T. Younos (2017), Conceptual framework for decentralized green water-infrastructure systems. *Water and Environment Journal*, 10.1111/wej.12305
7. García, DM. *, SG Ganesan*, **J. Lee**, J. Keck, P. Yang, (2017), Water Mains Integrity Management Using Hot Spot Analysis, *CSU Geospatial Review (Spring 2017)*
8. Mirzaei, M., M. Faghih, J. Adamowski, **J. Lee** and A. El-Shafie (2017), Uncertainty estimation in flood inundation mapping: an application of non-parametric bootstrapping, *River Research and Applications*, Vol 33(4), pp. 611-619
9. Erratum to: Dallman, S., A.M. Chaudhry, M. K. Muleta and **J. Lee** (2017), The Value of Rain: Benefit-Cost Analysis of Rainwater Harvesting Systems, *Water Resources Management*, 30(12), pp. 4415- 4428. doi:10.1007/s11269-016-1429-0
10. Dallman, S., A.M. Chaudhry, M. K. Muleta and **J. Lee** (2016), The Value of Rain: Benefit-Cost Analysis of Rainwater Harvesting Systems, *Water Resources Management*, 30(12), pp. 4415-4428. doi:10.1007/s11269-016-1429-0
11. Gungor-Demirci, G. †, **J. Lee**, M. Mirzaei and T. Younos (2016), How do people make a decision on bottled or tap water? Preference elicitation with nonparametric bootstrap simulations, *Water and Environment Journal*, Vol 30 (3-4), pp. 243-252.

12. Tanverakul, S. * and **J. Lee** (2016), Decadal review of residential water demand analysis from a practical perspective, *IWA Water Practice and Technology* Vol 11 (2), pp. 433 -447 (doi: 10.2166/wpt.2016.050)
13. **Lee, J.** (2016), Residential water demand analysis of a Low-Income Rate Assistance Program in California, United States, US, *Water and Environment Journal* 30(1-2), 49-61 (doi: 10.1111/wej.12158)
14. Mirzaei, M., M. Faghih, T. P. Ying, A. El-Shafie, Y. F. Huang, and **J. Lee** (2016). Application of a rainfall-runoff model for regional-scale flood inundation mapping for the Langat River Basin, *IWA Water Practice and Technology*, Vol 11 (2), pp. 373-383 (doi: 10.2166/wpt.2016.044)
15. **Lee, J.** (2015), Hydraulic Transients in Service Lines, *International Journal of Hydraulic Engineering*, 4(2), 31-36
16. Mirzaei, M., Y.F. Huang, A. El-Shafie, T. Chimeh, **J. Lee**, N. Vaizadeh, J. Adamowski (2015), Uncertainty analysis for extreme flood events in a semi-arid region, *Natural Hazards*, 78(3), 1947-1960, 10.1007/s11069-015-1812-9
17. **Lee, J.** and S. Chae (2015), Hourly water demand forecasting for micro water grids, *Journal of Water Supply: Research and Technology – AQUA* 65 (1) 12-17; DOI: 10.2166/aqua.2015.144
18. **Lee, J.** (2015), A holistic decision-making framework for selecting domestic piping materials, *Journal of Water Supply: Research and Technology – AQUA*, 64(3), p 326–332, doi:10.2166/aqua.2015.088
19. Tanverakul, S. * and **J. Lee** (2015), Impacts of Metering on Residential Water Use in California, *Journal American Water Works Association*, 107(2), E69-75
20. **Lee, J.** and Tanverakul, S*. (2015), Price elasticity of residential water demand in California, *Journal of Water Supply: Research and Technology – AQUA*, 64(2), p 211-218
21. **Lee, J.**, E. Kleczyk, D. Bosch, A. Dietrich, and V. Lohani (2013). Homeowners' decision-making in a premise plumbing failure-prone area, *Journal American Water Works Association*, 105(5), E236-241, DOI: <http://dx.doi.org/10.5942/jawwa.2013.105.0071>.
22. **Lee, J.**, V. Lohani, A. Dietrich, and G.V. Loganathan (2012). Hydraulic transients in plumbing systems, *IWA Water Supply, Water Science & Technology: Water Supply*, 12(5), 619–629.
23. McNeeley, S, S. Tessendorf, H. Lazrus, T. Heikkila, I. Ferguson, J. Arrigo, S. Attari, C. Cianfrani, L. Dilling, J. Gurdak, S. Kampf, D. Kauneckis, C. Kirchhoff, **J. Lee**, B. Lintner, K. Mahoney, S. Opitz-Stapleton, P. Ray (2012). Catalyzing Frontiers in Water-Climate-Society Research: A View from Early Career Scientists and Junior Faculty, *American Meteorological Society (BAMS)*, page 477.
24. **Lee, J.**, E. Kleczyk, D. Bosch, E. Tanellari, S. Dwyer, and A. Dietrich. (2009). Case study: preference trade-offs toward home plumbing attributes and materials, *Journal of Water Resources Planning and Management*, ASCE, 135 (4), 237-243.

25. Farooqi, O. E, G. V. Loganathan, M.A. Edwards, D. Bosch, **J. Lee**, and P. Scardina (2009). Copper pinhole failures: plumbing susceptibility and management, *Journal of Water Resources Planning and Management*, ASCE, 135 (4), 227-236
26. Loganathan, G. V., and **J. Lee** (2005). Decision tool for optimal replacement of plumbing systems, *Journal of Civil Engineering and Environmental Systems*, 22(4), 189-204

EDITORIALS & FEATURE ARTICLES (PEER-REVIEWED)

(*indicates SJSU research assistant)

1. **Lee, J.** and Younos, T. (2017), Sustainability Strategies at the Water–Energy Nexus: Renewable Energy and Decentralized Infrastructure. *Journal American Water Works Association*, February 2018. <https://doi.org/10.1002/awwa.1001>
2. Keck, J. and **J. Lee** (2015), A New Model for Industry-University Partnerships, *Journal American Water Works Association*, November, 107(11), 84-90, DOI: <http://dx.doi.org/10.5942/jawwa.2015.107.0161>
3. Ruberto, A. *, **J. Lee** and A. Bayer (2013). Water and Energy Nexus Analysis of a Public University in California, *Water Efficiency* (May 2013).
4. J. Delleur, **J. Lee**, V.K. Lohani, and L. Ormsbee (2009). Summary and Reflections on the Professional Career of GV Loganathan. *Journal of Water Resources Planning and Management*, ASCE, 135(4), 209-214
5. **J. Lee** and G. V. Loganathan (2006). Consumer Preferences Towards Plumbing Attributes, *Virginia Water Central, Virginia Water Resources Center*, No. 28, p. 10-11.

WORKING PAPERS

1. **Lee, J.**, Harrison, S., and Keck, J. (2017), Decision Support Tool for Well Rehabilitation and Replacement
2. Garcia, D.G., **J. Lee**, J. Keck, P. Yang, and R. Guzzetta (2017), Investigation of CI Pipe Failures using Emerging Hot Spot Analysis in California
3. Garcia, D.G., **J. Lee**, J. Keck, P. Yang, and R. Guzzetta (2017), Forensic Analysis of AC Pipes Using Emerging Hot Spot Analysis in California
4. **Lee, J.**, J. Keck T. Walski, O. Farooqi, P. Yang (2017), Water Mains Replacement from a Practical Perspective, preparing for the *Journal American Water Works Association*
5. **Lee, J.** (2018), Development of Integrative Hydraulic-Water Quality Model for Buildings
6. **Lee, J.** (2018), Development of Modified Hunter’s Methods toward Effective Conservation
7. **Lee, J.** (2018), Hydraulic Transients Analysis in High-Rise Building

BOOK CHAPTERS

1. **Lee, J.** and O. Farooqi (2014) ‘Emerging Issues in Drinking Water Distribution Systems: Focusing on Minor Water Systems’. Potable Water, Emerging Global Problems and Solution. Series: The Handbook of Environmental Chemistry, Vol. 30 Edited by Younos, Tamim, Grady, Caitlin A. ISBN 978-3-319-06562-5

CONFERENCE PROCEEDINGS

(*indicates SJSU research assistant; †denotes postdoctoral student)

1. Demirci, G.G. †, **J. Lee** and J. Keck, “Performance Assessment of a California Water Utility by Data Envelopment Analysis.”, *2017 ASCE World Environmental and Water Resources Congress*, Sacramento, California, USA, May 22-25, 2017.
2. Ganesan, S.G. *, García, D.G. *, **J. Lee** and J. Keck, “A Spatio-Temporal Water Mains Integrity Management Program for California.”, *2017 ASCE World Environmental and Water Resources Congress*, Sacramento, California, USA, May 22-25, 2017.
3. Haque, U., PF da Silva, **J. Lee**, S Benz, MJ Auflič, P Blum, “Increasing Fatal Landslides in Europe.”, Workshop on World Landslide Forum, 505-512
4. **Lee, J.** and M. Meehan, *2016 AWWA Water Infrastructure Conference*, Phoenix, AZ October 30-November 2, 2016. “Reliability Analysis of Service Line Materials”.
5. Bautista, A. *, **J. Lee** and J. Keck, “A New Water Mains Integrity Management Program for California.”, *2016 ASCE World Environmental and Water Resources Congress*, West Palm Beach, Florida, USA, May 22-26, 2016.
6. Demirci, G.G. †, **J. Lee** and J. Keck, “Performance Assessment of a Water Utility in California.”, *2016 ASCE World Environmental and Water Resources Congress*, West Palm Beach, Florida, USA, May 22-26, 2016.
7. Chae, S. and **J. Lee**, “Development of A Micro Water Grid (MWG) Pilot Platform for Green Buildings”, HIC 2014 – *11th International Conference on Hydroinformatics*, New York, New York, USA, August 17 – 21, 2014.
8. Tanverakul, S* and **J. Lee**, "Residential Water Demand Analysis Due to Water Meter Installation in California.", *2013 ASCE World Environmental and Water Resources Congress*, Cincinnati, Ohio, USA, May 19-23, 2013.
9. Tanverakul, S* and **J. Lee**, "Price Elasticity Under Rate Structure Change and Low-Income Discounts in California.", *2013 ASCE World Environmental and Water Resources Congress*, Cincinnati, Ohio, USA, May 19-23, 2013.
10. Tanverakul, S* and **J. Lee**, "Historical review of US residential water demand.", *2012 ASCE World Environmental and Water Resources Congress*, Albuquerque, New Mexico, USA, May 20-24, 2012

11. **Lee, J.** and E. Easterling*, "Application of EIO-LCA and LCIA to Premise Plumbing Materials.", *2012 ASCE World Environmental and Water Resources Congress*, Albuquerque, New Mexico, USA, May 20-24, 2012
12. Tanverakul, S*. and **J. Lee**, "Water Demand Analysis in Northern CA"(ppt format), *AWWA ACE National Conference*, June 10-14, 2012, Dallas, Texas,
13. **Lee, J.**, N. Okamoto, R. Chung, and T. Anagnos, "Introducing sustainability concepts in lower division engineering core courses" *FIE2011 (Frontiers in Education)*, Rapid City, South Dakota, USA, October 12-15, 2011
14. **Lee, J.**, and A. Fayyaz*, "Experimental Study of the Drinking Water Service Lines with Leaks", *The 12th annual Water Distribution Systems Analysis Conference (WDSA 2010)*, September 12-15, 2010 in Tucson, Arizona.
15. **Lee, J.**, V. K. Lohani, A. M. Dietrich, and G. V. Loganathan (Late), "Possible Contamination Intrusion Issues at Service Lines", *World City Water Forum 2009*, August 18-21, 2009, Songdo Convensia, Incheon, Korea.
16. **Lee, J.**, Vinod K. Lohani, A. M. Dietrich, and G. V. Loganathan (Late), "Low Pressure Propagation at Service Lines", *ASCE 11th Water Distribution Systems Analysis Symposium (WDSA2009)* within the EWRI Conference, May 17-21, 2009, Kansas City, Missouri.
17. **Lee, J.**, D. Bosch, E. Kleczyk, E. Tanellari, A. M. Dietrich, and V. K. Lohani, "Case Study: Homeowner's Preference Trade-Offs towards Plumbing Systems in Pipe Failure Prone Area", *ASCE 11th Water Distribution Systems Analysis Symposium (WDSA2009)* within the EWRI Conference, May 17-21, 2009, Kansas City, Missouri.
18. Loganathan, G. V., **J. Lee**, D. Bosch, S. Dwyer, S. Willis-Walton, and E. Kleczyk, "Preference trade-offs in choosing domestic plumbing materials", *Pipelines 2006 Focus: 'Service to the Owner'*, Chicago Sheraton & Towers, Chicago, IL, July 30 – August 2, 2006.
19. Loganathan, G. V., **J. Lee**, D. Bosch, S. Dwyer, and E. Kleczyk, "Preference Trade-Offs in Material Selection for Plumbing Systems", *Seventh International Congress on Civil Engineering*, Tarbiat Modarres University, Tehran, Iran, May 8-10, 2006.
20. **Lee, J.**, G. V. Loganathan, D. Bosch, S. Dwyer, and E. Kleczyk, "Consumer Concerns and Preference-Tradeoffs in Home Plumbing Systems", *8th Annual International Symposium on Water Distribution Systems Analysis*, Cincinnati, Ohio August 27-30, 2006.
21. Loganathan, G. V., and **J. Lee**, "Analyzing Copper Plumbing Pipe Failures", *World Water & Environmental Resource Congress 2005*, May 15- 19, 2005, Anchorage Convention Center, Anchorage, Alaska.

RESEARCH REPORTS

1. University of Central Florida, **Lee, J.** Technical Workshop: Bridge Between U.S. and Korea Infrastructure Evaluation – Current Status of ASCE Report Card for America’s Infrastructure and Recommendations for Developing Korea Report Card – Drinking Water
2. California Water Service Company, **Lee, J.** Residential Water Demand Analysis due to Water Meter Installations, May 2014
3. NSF Final Report (Award ID: 0935162). “Integrating Sustainability into Lower Division Core Engineering Courses”. **Lee, J.**, N. Okamoto, R. Chung, and T. Anagnos, Jan. 2011.
4. AWWARF Project #3015 Report “Pinhole leak trends and plumbing material selection” by Farooqi, O., **Lee, J.**, Loganathan, G. V., Edwards, M., Scardina, P. and Bosch, D.
5. AWWARF Project #3015 Report, “National Pinhole Leak Cost and Willingness to Pay for Improved Plumbing Materials”. Bosch, D., E. Sarver, E. Tanellari, S. Dwyer, S. Willis-Walton, G.V. Loganathan, O. Farooqi, and **J. Lee**
6. Tellico Village Community Survey Research Report, Bosch, D., Kleczyk, E., **Lee, J.**, and Tanellari, E. 2007.

CONFERENCE PRESENTATIONS

(*indicates SJSU research assistant; †denotes postdoctoral student)

1. **Lee, J.** and Whelton, A.J., “Development of Premise Plumbing Hydraulics-Water Quality Models”, 6 TH Biennial Emerging Water Technology Symposium (EWTS), Ontario, California, USA, May 15-16, 2018. (Oral Presentation)
2. Demirci, G.G. †, **J. Lee** and J. Keck, “Performance Assessment of a California Water Utility by Data Envelopment Analysis.”, 2017 ASCE World Environmental and Water Resources Congress, Sacramento, California, USA, May 22-25, 2017. (Oral Presentation)
3. Ganesan, S.G.* , García, D.G. * , **J. Lee** and J. Keck, “A Spatio-temporal Water Mains Integrity Management Program for California.”, 2017 ASCE World Environmental and Water Resources Congress, Sacramento, California, USA, May 22-25, 2017. (Oral Presentation)
4. García, D.G. * , **J. Lee**, J. Keck, and R. Guzzetta, “Impacts Analysis of Hydraulic Transients in California”, 2017 ASCE World Environmental and Water Resources Congress, Sacramento, California, USA, May 22-25, 2017. (Oral Presentation)
5. Graham, J., J. Keck, and **J. Lee**, “A Water Industry Perspective: On-Line Real-Time Water Distribution Systems Monitoring/Modeling in California”, 2017 ASCE World Environmental and Water Resources Congress, Sacramento, California, USA, May 22-25, 2017. (Oral Presentation)
6. Demirci, G.G. †, **J. Lee**, J. Keck, and R. Guzzetta, “Determinants of Non-revenue Water for a California Water Utility”, 2017 ASCE World Environmental and Water Resources Congress, Sacramento, California, USA, May 22-25, 2017. (Poster Presentation)

7. Harrison, S., J. Keck, and **J. Lee**, "WELMAT: Well Replacement and Rehabilitation Strategy", 2017 ASCE World Environmental and Water Resources Congress, Sacramento, California, USA, May 22-25, 2017. (Poster Presentation)
8. Demirci, G.G. †, **J. Lee**, J. Keck, and R. Guzzetta, "Optimal Flushing Program for California's Water Distribution Systems", 2017 ASCE World Environmental and Water Resources Congress, Sacramento, California, USA, May 22-25, 2017. (Poster Presentation)
9. **Lee, J.** and M. Meehan, 2016 AWWA Water Infrastructure Conference, Phoenix, AZ October 30-November 2, 2016. "Reliability Analysis of Service Line Materials". (Oral Presentation)
10. **Lee, J.** AESS (Association for Environmental Studies and Science) – Annual Conference, Washington, D.C. June 8-11, 2016. "Critical Issues on Drinking Water Infrastructure". (Oral Presentation)
11. Chae, S. and **J. Lee**, HIC 2014 – *11th International Conference On Hydroinformatics*, New York, New York, USA, August 17 – 21, 2014, "Development of Micro Water Grid Pilot Platform". (Oral Presentation)
12. Tanverakul, S* and **J. Lee**, 2013 AWWA ACE National Conference, Boulder, Colorado, " Water Demand Analysis due to Water Meter Installation " (Poster Presentation).
13. Tanverakul, S* and **J. Lee**, 2013 AWWA ACE National Conference, Boulder, Colorado, "Water Price Elasticity Analysis " (Poster Presentation).
14. Tanverakul, S* and **J. Lee**, 2013 ASCE World Environmental and Water Resources Congress, Cincinnati, Ohio, " Water Demand Analysis due to Water Meter Installation in CA ". (Oral Presentation)
15. Tanverakul, S* and **J. Lee**, 2013 ASCE World Environmental and Water Resources Congress, Cincinnati, Ohio, " Water Price Elasticity Analysis in CA ". (Oral Presentation)
16. Tanverakul, S* and **J. Lee**, 2012 ASCE World Environmental and Water Resources Congress, Albuquerque, New Mexico, "Historical Review of US Water Demand". (Oral Presentation)
17. **Lee, J.** and E. Easterling*, 2012 ASCE World Environmental and Water Resources Congress, Albuquerque, New Mexico, "LCA Applications to Plumbing Materials". (Oral Presentation)
18. **Lee, J.**, N. Okamoto, R. Chung, and T. Anagnos, 2012 ASCE World Environmental and Water Resources Congress, Albuquerque, New Mexico, "Implementing Sustainability into Lower Division Engineering Courses". (Oral Presentation)
19. Tanverakul, S* and **J. Lee**, 2012 AWWA ACE National Conference, Dallas, Texas, "Water Demand Analysis in Northern CA". (Oral Presentation)
20. Chaudhry, A., S. Dallman and **J. Lee**, 2012 Western Economic Association International, 87th Annual Conference, "Decision Making tool for Rainwater Harvesting Program Implementation". (Oral Presentation)

21. Tanverakul, S* and **J. Lee**, 2012 Western Economic Association International, 87th Annual Conference, "Water Price and Demand in US". (Oral Presentation)
22. **Lee, J.**, N. Okamoto, R. Chung, and T. Anagnos, 'Integrating Sustainability into Lower Division Core Engineering Courses', FIE2011 (Frontiers in Education), October 2011. (Oral Presentation)
23. **Lee J.**, T. Anagnos, R. Chung, and N. Okamoto., 'Integrating Sustainability into Lower Division Core Engineering Courses'. ASCE EWRI 2011 World Environmental & Water Resources Congress, Bearing Knowledge for Sustainability, Palm Springs, California, May 22-26, 2011. (Oral Presentation)
24. **Lee, J.**, "Residential Water Demand Analysis due to Water Meter Installation in California". ASCE EWRI 2011 World Environmental & Water Resources Congress, Bearing Knowledge for Sustainability, Palm Springs, California, May 22-26, 2011. (Oral Presentation)
25. **Lee, J.**, A. Easterling*, and A. Shah, "Life Cycle Assessment of Different Plumbing Materials toward Better Informed Decision Making". ASCE EWRI 2011 World Environmental & Water Resources Congress, Bearing Knowledge for Sustainability, Palm Springs, California, May 22-26, 2011. (Poster Presentation)
26. **Lee, J.** "Investigation of the Drinking Water Service Lines". The California Nevada Section American Water Works Association (AWWA). Annual fall 2010 conference in Sacramento, CA from October 5 – 8, 2010. (Oral Presentation)
27. **Lee, J.**, and A. Fayyaz*. "Investigation of Drinking Water Service Lines with Leaks". The 12th annual Water Distribution Systems Analysis Conference (WDSA 2010), September 12-15, 2010 in Tucson, Arizona. (Oral Presentation)
28. **Lee, J.**, "On-going Research Related with Climate Change Issues" National Center for Atmospheric Research (Poster Presentation)
29. **Lee, J.**, A. Fayyaz*, and C. Luk*. "Analysis of Hydraulic Transients at T-Junctions: Focusing on the Water Main and Service Lines". CWEA 2010 Annual Conference - California Water Environment Association, Apr 20, 2010. (Poster presentation)
30. **Lee J.**, T. Anagnos, R. Chung, and N. Okamoto. "Integrating Sustainability into Lower Division Core Engineering Courses". Poster session. NSF Awardees Conference, January 31-February 2, 2010, Reston, VA (Poster Presentation)
31. **Lee, J.** "Gaseous Cavitation Phenomenon within Drinking Water Infrastructures." 2009 AWRA Annual Water Resources Conference, Red Lion Hotel on 5th Avenue, Seattle, Washington, November 9-12, 2009 (Oral Presentation)
32. **Lee, J.**, V. K. Lohani, A. M. Dietrich, and G. V. Loganathan (Late), "Possible Contamination Intrusion Issues at Service Lines", World City Water Forum 2009, August 18-21, 2009, Songdo Convensia, Incheon, Korea, (Oral Presentation)
33. **Lee, J.**, V. K. Lohani, A. M. Dietrich, and G. V. Loganathan (Late), "Low Pressure Propagation at Service Lines", ASCE 11th Water Distribution Systems Analysis Symposium (WDSA2009) within the EWRI Conference, May 17-21, 2009, Kansas City, Missouri. (Oral Presentation)

34. **Lee, J.**, D. Bosch, E. Kleczyk, E. Tanellari, A. M. Dietrich, and V. K. Lohani, “Case Study: Homeowner’s Preference Trade-Offs Towards Plumbing Systems in Pipe Failure Prone Area”, ASCE 11th Water Distribution Systems Analysis Symposium (WDSA2009) within the EWRI Conference, May 17-21, 2009, Kansas City, Missouri. (Oral Presentation)
35. **Lee, J.**, V. K. Lohani, and A. M. Dietrich, “Drinking Water Contamination Issues At Service Line Due To Hydraulic Transients: Experiments And Numerical Modeling”, KSEA Northwest Regional Conference (November 1, 2008) (Oral Presentation)
36. Kleczyk, E., D. Bosch, E. Tanellari, and **J. Lee**, ”Household Preferences for Plumbing Materials: CA, CV, and AHP”, AAEA, July 2008. (Poster Presentation)
37. **Lee, J.**, V. K. Lohani, and A. M. Dietrich, “Contamination Intrusion at Service Lines”, AWWA, Georgia, Atlanta, June 2008. (Oral Presentation)
38. **Lee, J.**, S. Williamson, V. K. Lohani, and A. M. Dietrich, “Low Pressure Propagation Analysis in an Experimental Plumbing Rig”, Virginia/West Virginia, Water Research Symposium, November 26-27, 2007, Blacksburg, VA. (Oral Presentation)
39. **Lee, J.**, and G. V. Loganathan, “ Consumer Preferences Towards Plumbing Attributes”, Virginia Water Central, Virginia Water Resources Center, No. 28, July 2006, pp. 10-11. Available at <http://www.vwrrc.vt.edu/central/Va%20Water%20Central%20June%202006%20one%20column.pdf> (Oral Presentation)
40. **Lee, J.**, J. Ortiz, and G.V. Loganathan, “Analyzing the Low Pressure Propagation in an Experimental Plumbing System”, Virginia Water Science and Technology Symposium, November 1-3, 2006, Blacksburg, VA. (Oral Presentation)
41. Kleczyk, E., D. Bosch, and **J. Lee**, “Corrosion in Home Drinking Water Infrastructure: Assessment of Causal Factors and Costs”, Virginia Water Science and Technology Symposium, November 1-3, 2006, Blacksburg, VA. (Oral Presentation)
42. Loganathan, G. V., **J. Lee**, D. Bosch, S. Dwyer, S. Willis-Walton, and E. Kleczyk, “Preference Trade-offs in Choosing Domestic Plumbing Materials”, Pipelines 2006 Focus: ‘Service to the Owner’, Chicago Sheraton & Towers, Chicago, IL, July 30 – August 2, 2006. (Oral Presentation)
43. Loganathan, G. V., **J. Lee**, D. Bosch, S. Dwyer, and E. Kleczyk, “Preference Trade-offs in Material Selection for Plumbing Systems”, Seventh International Congress on Civil Engineering, Tarbiat Modarres University, Tehran, Iran, May 8-10, 2006.
44. **Lee, J.**, G. V. Loganathan, D. Bosch, S. Dwyer, and E. Kleczyk, “Consumer Concerns and Preference Tradeoffs in Home Plumbing Systems”, 8th Annual International Symposium on Water Distribution Systems Analysis, Cincinnati, Ohio August 27-30, 2006. (Oral Presentation)
45. **Lee, J.**, and G. V. Loganathan, “Preference Analysis of Home Plumbing Material”, Virginia Water Resources Research Center, National Water Research Symposium: Balancing water law and science, October 10-12, 2005, Virginia Tech, Blacksburg, Virginia. (Oral Presentation)

46. Kleczyk, E., D. Bosch, S. Dwyer, **J. Lee**, and G. V. Loganathan, “Maryland Home Drinking Water Assessment”, Virginia Water Resources Research Center, National Water Research Symposium: Balancing water law and science, October 10-12, 2005, Virginia Tech, Blacksburg, Virginia. (Oral Presentation)
47. Loganathan, G. V., and **J. Lee**, “Analyzing Copper Plumbing Pipe Failures”, World Water & Environmental Resource Congress 2005, May 15- 19, 2005, Anchorage Convention Center, Anchorage, Alaska. (Poster Presentation)
48. **Lee, J.**, and G. V. Loganathan, “Analysis of Home Plumbing Pipe Failures”, Virginia Water Research Symposium, 2004: Assessing and Managing, Virginia’s Water Resources, October 4-6, 2004, Virginia Tech, Blacksburg, Virginia. (Oral Presentation)
49. Loganathan, G. V., D. Bosch, and **J. Lee**, “Economic Impacts: Pipe Replacement Analysis”, Water Security in the 21st Century, Washington, DC, July 30 - August 1, 2003. A Special Joint Conference of Universities Council on Water Resources (UCOWR), National Institutes of Water Resources (NIWR), Environmental and Water Resources Institute of the ASCE (EWRI). (Oral Presentation)

INVITED TALKS

1. University of Delaware (Newark, DE). Infrastructure Bootcamp Lecture Series, Title “Critical Emerging Issues in Drinking Water Infrastructure”. June 22, 2018
2. University of Delaware (Newark, DE). Department of Civil and Environmental Engineering. CIEG 655 Civil Infrastructure Systems, Title “Critical Emerging Issues in Drinking Water Infrastructure”. September 27, 2017
3. University of Delaware (Newark, DE). Department of Civil and Environmental Engineering. Title “Critical Emerging Issues in Drinking Water Infrastructure”. April 25, 2017
4. Drexel University (Philadelphia, PA). Department of Civil and Environmental Engineering. Title “Critical Emerging Issues in Drinking Water Infrastructure”. April 20, 2017
5. George Mason University (Fairfax, VA). Department of Civil and Environmental Engineering. Title “Critical Emerging Issues in Drinking Water Infrastructure”. April 10, 2017
6. University of Maryland (College Park, MD). Department of Civil and Environmental Engineering. Title “Critical Emerging Issues in Drinking Water Infrastructure”. March 31, 2017
7. Rutgers University (New Brunswick, NJ). Department of Civil and Environmental Engineering. Title “Critical Emerging Issues in Drinking Water Infrastructure”. March 22, 2017
8. University of Maryland Baltimore County (Baltimore, MD). Center for Urban Environmental Research and Education (UMBC, CUERE). Title “Critical Emerging Issues in Drinking Water Infrastructure”. March 17, 2017
9. City University of New York (New York, NY). Department of Civil and Environmental

- Engineering. Title “Critical Emerging Issues in Drinking Water Infrastructure”. March 6, 2017
10. University of Delaware (Newark, DE). Water Workshop. Title “Critical Emerging Issues in Drinking Water Infrastructure”. February 3, 2017
 11. Temple University (Philadelphia, PA). Department of Civil and Environmental Engineering. Title “Critical Emerging Issues in Drinking Water Infrastructure”. February 1, 2017
 12. San José State University (San José, CA), Sustainability Matters Showcase, “*Sustainable Drinking Water Infrastructure*”, December 5, 2011.
 13. Korea Gas Company (Ansan, South Korea). Title: “*Optimal Replacement Time of Piping Systems*”, August 8, 2011.
 14. San José State University (San José, CA), ENG100W Guest Speaker, Title: “*Water Resources Sustainability and its Infrastructures*”, October 13, 2010.
 15. Seoul Metropolitan Government, Waterworks Research Institute (Seoul, South Korea), Sponsored by Waterworks Research Institute’s 2010 waterworks specialist invitation program. Title: “*Several Issues in Premise Plumbing: Contamination Intrusion at Service Lines, Choosing Alternative Plumbing Materials, Practical Applications, and on-going research*”. August 12, 2010.
 16. Brain Korea 2010, Korea University (Seoul, South Korea), sponsored by Brain Korea (BK) 21 initiative for Global Leaders in Construction Engineering program. Title: “*Contamination Intrusion at Service Lines and Consumers’ Concerns*”, January 19, 2010.
 17. PPI Plastic Pipe Institute. “*Analysis of Consumer Preferences towards Piping Materials*”, Blacksburg, VA, March 2008.
 18. Korea Water Corporation, Daejeon, South Korea, “*Decision tools for optimal replacement of plumbing system and consumer preferences towards plumbing attributes*”, May, 2007.
 19. Korea University, Seoul, Korea, “*Economically sustainable decision support system for drinking water infrastructure and homeowner’s preference trade-offs in plumbing materials*”, May, 2007.

ENGINEERING CONSULTING

HomeServeUSA

Jun 2015

Failure Analysis of Water Service Lines

- Develop Failure Models for different service line materials
- Develop Best Management Practices for Water Service Lines

California Water Service Company

Jun 2014

Analysis of Current Asset Management at CalWater

- Reviewed current Asset Management and developed holistic Decision Support Systems

Advanced Water Management Research Program of the Ministry of Land, Infrastructure and Transport in the South Korean Government (12-TI-C01)

Development of a Micro Water Grid (MWG) Pilot platform for green buildings

Jan 2014

- Developed water demand model
- Performed hydraulic analysis of high-rise building
- Applied decision modeling for optimal building design

Schwarz & Wheeler, San Jose, CA

Jan 2013

Hydraulic Surge Analysis

- Hydraulic surge analysis of Marina County, CA.
- Hydraulic surge analysis of San Jose, CA.

PPI (Professional Publications, Inc)

Feb 2013

On-Line Course Instructor

- Developed Civil Engineering Water Resources and Environmental On-line Course Materials
- Developed Civil Engineering Surveying On-line Course Material

RESEARCH SUPERVISION

San José State University (San Jose, CA)

Post-doctoral Research Project Supervision

Name	Semester	Research Topic
Gamze Gungor Demirci	2016 – 2017	Critical Emerging Issues in California Water Utility
Indu Jeyachandran	2016 – 2017	Hot spot analysis of water mains

Graduate Student Research Project Supervision

Name	Semester	Research Topic
Diego Martínez García	2016-2018	Failure analysis of water mains
Sathya Geetha	Fall 2016	Hot spot analysis of water mains
Andrea Bautista	Spring 2016	Optimal Replacement of Water Mains
Jose Oropeza	Fall 2015	Estimating Energy Use from Water Systems in SJSU
Brandon Woods	Spring 2015	Water Quality Analysis using Intervention Analysis
Jon Marshall	Spring 2015	Hydraulic Transients in Contra Costa Water District
Chris Mar	Spring 2015	Pipe Network Optimization using EPANET linked with Matlab
Shari Carlet	Spring 2015	Water Demand Analysis in Palo Alto, CA
Madeline Baker	fall 2014	Pipe Network Optimization using EPANET linked with Matlab
E.Eiesner-Streller	fall 2014	Historical Review of Water Price

Long Phi Hoang	fall 2014	Application of SVM for Water Demand Forecasting
Yi Ying Huang	fall 2014	Pipe Network Optimization using EPANET linked with Matlab
Sujan Maharjan	S & F 2012	Hourly Water Demand in High-Rise Building
S. Tanverakul	S & F 2012	Water Demand Analysis in California
Rafael Lopez	spring 2011	Application of EIO-LCA for Plumbing Materials
Tim Hampton	spring 2010	Practical Planning and Management for Water Infrastructure
Poyom Riles	spring 2009	Case Study: Application of HEC-RAS
Abdullah Fayyz	fall 2008	Hydraulic Transients Analysis at Water Mains

Undergraduate Student Research Project Supervision

Name	Semester	Research Topic
Matheus Seveino	Sum 2015	Drinking Water Infrastructure & Flushing Issues
Alessandra Siqueira	Sum 2015	Drinking Water Infrastructure & Flushing Issues
Wallace Gomes	Sum 2015	Drinking Water Infrastructure & Flushing Issues
Carolina Castro	Sum 2015	Drinking Water Infrastructure & Flushing Issues
Caio Alves	Sum 2015	Drinking Water Infrastructure & Flushing Issues
Matheus Correa	Sum 2015	Drinking Water Infrastructure & Flushing Issues
Milena Albuquerque	Sum 2015	Drinking Water Infrastructure & Flushing Issues
Ryan Barker	fall 2013	Water Conservation related LEED Standard
Vincent Castaneda	spring 2013	Case Study: Application of EPA SWMM
Angela Ruberto	spring 2012	Water-Energy Nexus Issues in San Jose State University
Yonatan Tan	spring 2012	Case Study: Application of Global Climate Model (GCM)
Aldo Reyes	fall 2011	Case Study: Application of EPA SWMM
Uriel Ortiz	fall 2011	Case Study: Application of HEC-HMS
Zhen Wang	spring 2011	Case Study: Water Demand Analysis
Yansen Hendra	fall 2010	Hydraulic Transients at Service Lines
Khanh Huynh	fall 2010	Gaseous Cavitation at Service Lines
Charles Luk	spring 2010	Hydraulic Transients at T-Junctions
Thanhphong Doan	fall 2009	Hydraulic Transients Analysis at Water Mains

Virginia Tech (Blacksburg, VA)

Undergraduate Student Mentor

- Published a Conference paper with an undergraduate student (Lee et al., 2007);
- Created a LabVIEW Educational Video Presentation (7.5 minutes) for Engineering Education Department (Fall 2007);
- Mentor on *hands-on* hydraulics activity (water tower experiment) including demonstration to ENGE 1024 GTAs (Fall 2007)

TEACHING

Manhattan College (Riverdale, NY)

Aug 2018 – Present

Instructed Civil Engineering Courses including:

Undergraduate Courses

- CEEN 303 Introductory Fluid Mechanics;
- CEEN 304 Introductory Fluid Mechanics Laboratory;
- CEEN 307 Hydraulic Design;

San José State University (San Jose, CA)

Aug 2008 – Aug 2018

Instructed Civil Engineering Courses including:

Undergraduate Courses

- CE150 Introduction to Hydrology and Hydraulics;
- CE152 Engineering Hydrology;
- CE154 Hydraulic Design;

Graduate Courses

- CE250 Modeling in Water Resources Engineering;
- CE251 Open Channel Hydraulics;
- CE254 Water Resources Systems Management;
- CE256 Sustainable Water Resources Engineering;

- **Overall Student Teaching Evaluation Average (SOTES): 4.8/5.0 (Fall 2008 – Spring 2016)**

PPI (Professional Publications, Inc)

Jan 2011- Aug 2013

PE Exam On-Line Course Instructor

- Hydrology; Hydraulics; Water Treatment; Waste Water Treatment;
- California Surveying

FE Exam In-Class Course Instructor

- Fluid Mechanics; Probability and Statistics; Calculus; Linear Algebra

Virginia Tech (Blacksburg, VA)

Aug 2003 – Aug 2007

- Instructed Civil Engineering CEE 2814 Surveying Laboratory (fall 2003 - summer 2007)
- Instructed Civil Engineering Fluid Mechanics (CEE 3304), Water Resources Engineering (CEE 3314), and Measurement (CEE 2814) on a substitute basis

- **Overall Student Teaching Evaluation Average: 4.9/5.0 (fall 2003 - summer 2007)**

COURSE DEVELOPMENTS

San José State University (San Jose, CA)

- *CE250 Modeling in Water Resources Engineering*: Various modeling approaches for optimal planning and operation of environmental and water resources systems.
- *CE254 Water Resources Systems Management*: Various optimization tools for water resources systems planning and management considering that water resources projects are expensive to build and complicated to operate, and this involves many random system variables.
- *CE256 Sustainable Water Resources Engineering*: Sustainable practices that practicing hydraulic engineers will likely encounter. The topics include water use, water-energy nexus, water excess management concepts, environmental impact assessment, risk-based analysis, and water resources management issues.
- *CE258 GIS Applications in Water Resources Engineering*: Geographic Information Systems (GIS) Applications in hydrology and water supply, spatial analysis, Digital Elevation Model (DEM), pre and post processing of hydrologic model

ACADEMIC ADVISING

San José State University (San Jose, CA)

- *Water Resources Program Coordinator (fall 2008- present)*: Coordinated all undergraduate and graduate level courses related to Water Resources Engineering Program
- *Water Resources Program Graduate Advisor (fall 2008- present)*: Advised Water Resources Program's Graduate Students
- *CEE Designated Undergraduate Advisor (fall 2011 – spring 2014)*: Have advised ~200 students per semester toward their academic success.
- *Surveying Course Coordinator (2011- present)*: Coordinated CE8 Surveying Courses including surveying equipment inspections
- *Engineering Graphics, CAD and Programming Course Coordinator (2011- present)*: Coordinated CE20 AutoCAD and Programming including maintaining Department CAD licensure

PROFESSIONAL SERVICE

NSF Proposal Panel Reviewer

- Invited as a panelist for NSF REE Program, April 2014
- Invited as a panelist for NSF ERC Program, July 2018

NSF Awardees Conference

- Invited as a Panelist in “What is sustainability” session, January 2010

NSF Proposal Reviewer

- Reviewed proposal for *National Science Foundation* (NSF) (2009)

Associate Editor for the ASCE Journal of Water Resources Planning and Management (JWRPM)

- Reviewed manuscripts for possible publications in ASCE Journal of Water Resources Planning and Management (2016- Present)

Reviewer for Journals

- Reviewed manuscripts for *Utilities Policy; Urban Water; Journal American Water Works Association, ASCE Journal of Sustainable Water in the Built Environment, ASCE Journal of Infrastructure Systems; ASCE Journal of Water Resources Planning and Management, Journal Environmental Studies and Sciences; Journal Korean Society of Hazard Mitigation; Drink. Water Eng. Sci. Discuss, Delft Copernicus; ASCE EWRI WDSA Manuscripts; ASCE Journal of Environmental Engineering; ASCE Journal of Hydrologic Engineering; ASCE Journal of Waterway, Port, Coastal, and Ocean Engineering;*

Professional Society

ASCE (American Society of Civil Engineers)

- Member of the ASCE EWRI WDSA (2014- Present)
- Member of the ASCE Task Committee on Research Database for Water Distribution Systems
- ASCE EWRI Water, Wastewater & Stormwater Committee Member (2016 – Present)

AWWA (American Water Works Association)

- EMAC (Engineering Modeling Applications Committee) Transient Modeling Subcommittee (2017 – Present)
- PAC (Project Advisory Committee) for Technical & Education Council Grant to fund development of guidance for Implementation of Residential Fire Sprinkler Systems in Community Water Systems.
- AWWA Customer Metering Practices Committee Member (2016- Present)
- Faculty Advisor for SJSU’s AWWA (American Water Works Association) Student Chapter (2012-present)

International and Other Significant Professional Society

- Invited as an Editorial Board Member of the Austin Journal of Irrigation (2015 – Present)
- Invited as the Water Scholars for Thailand by Dr. Tamim Younos, President & CEO of the Green Water-Infrastructure Academy
- Invited as the Think Tank Affiliate for Green Water Infrastructure Academy, Washington, D.C. (October 2015)

Conferences

ASCE (American Society of Civil Engineers)

- Invited as a member of the International Scientific Advisory Committee for WDSA-CCWI 2018 Conference
- Technical Session Moderator, 2012 ASCE World Environmental and Water Resources Congress, Albuquerque, New Mexico
- ASCE WDSA 2010 Conference (Tucson, AZ) Abstract and Manuscript Reviewer
- Invited as an International Advisory Board for WDSA 2010 Conference

International and Other Significant Conferences

- Invited as a Water & Environment Session Chair for the 10th KSEA (Korean Scientist and Engineers Association) Northwest Regional Conference (October 2015)
- Served as the Chair for HIC 2014 Conference Technical Session (2014)
- Invited as IWTC 2014 Organization Committee (2014- Present)
- Chaired & co-chaired poster, optimization, and sustainability session at World City Water Forum 2009
- Invited as a discussant at the Western Economic Association International Conference (2012)
- Session Moderator, 2009 AWRA Annual Water Resources Conference, Red Lion Hotel on 5th Avenue, Seattle, Washington, November 9-12, 2009

UNIVERSITY SERVICE

California State University (CSU)

- CSU Proposal Writing Committee (2011)
- Invited as a Panel Member at the CSU Water Resources Policy Initiatives Annual Conference (2012)

SJSU University-Level Committee

- SJSU Program Planning Committee Member (2018)
- SJSU Senate Committee Member (2013)

SJSU College-Level Committee

- Served as the Associate Dean for Research Search Committee Member (fall 2014)
- Served as the CEE Representative to College of Engineering's Undergraduate Curriculum

Committee (fall 2013 – spring 2014; fall 2015 - spring 2016; fall 2016 – spring 2017); Dealt with a major curricular issue – reduction of curriculum to 120 units

- CEE Representative to Department Designated Graduate Advisor (2011-2014)
- CEE Representative to Student Project Committee (2012-2013)
- College of Engineering, Vision 2015 (Invited by Dean Belle Wei)
This task force is playing an important role in determining the future direction of the COE.
- College of Engineering, Resource Advisory Board (recommended by Departmental Chair Ndon); Resource Advisory Board is developing strategies for allocating and identifying resources to achieve goals set by the 2015 Task Force.
- College of Engineering - FE Exam – Reviewer for COC Meeting

SJSU Department -Level Committee

- Served as CEE Executive Committee (fall 2016 - present)
- Served as SJSU CEE Chair Review Committee Member (fall 2015)
- Served as SJSU CEE Part-time Retention & Promotion Committee Member (fall 2015)
- Served as SJSU CEE Retention, Tenure and Promotion Committee Member (fall 2014)
- Served as SJSU CEE Student Affairs Coordinator (2009- Present)
- Served as a member of the CEE Department ABET Assessment committee member to review assessments documents (2008 – present)
- Has championed for two outcomes for the ABET accreditation process (Outcomes H & K)
- Served as a CEE Department Scholarship Committee Member to evaluate and rank applications for available department scholarships every year (2008 – present)
- Served as a CEE Department Curriculum Committee (2008 – present)

SJSU Student Service

- Faculty Advisor for SJSU AWWA (American Water Works Association) Student Chapter (2012-present)
- Faculty Advisor for SJSU ASCE Water Resources (2012-present) Advisor for SJSU ASCE Environmental and Water Resources Engineering Student Club (Environmental aspects, Dr. Udem Ndon/ Water Resources aspects, Dr. Juneseok Lee)
- SJSU CEE Chi Epsilon EIT Exam Review (2013)

COMPUTER AND LANGUAGE SKILLS

- Programming Language: R, Python, and MATLAB
- Technical Software: Arc GIS, Civil 3D, EPANET, EPA-SWMM, HEC-HMS, HEC-RAS, MS Office packages, and VTPSHUM.
- Language: Native speaker in Korean, and fluent in English

PROFESSIONAL AFFILIATIONS

- Member of the American Society of Civil Engineers (ASCE) 2008 - Present
- Member of the American Water Works Association (AWWA) 2008 - Present