

Sri Rajah, Ph.D., P.E., S.E., G.E., ENV SP, F.ASCE
Principal Engineer &
Discipline Leader - Seismic Analysis and Design| CDM Smith

Dr. Rajah has over three decades of experience in civil engineering, technical, and project management leadership roles with specialized focus in structural, geotechnical, seismic, and hydraulic aspects of pipeline engineering, providing design, evaluation, condition assessment, risk assessment, failure analysis, and litigation support services. As a recognized national leader within the North American pipeline industry, he has worked on conveyance pipelines with diameters of up to 156 inches, tunnels with diameters of up to 168 inches, and penstocks with internal pressures up to 83 bar (1200 psi), and has experience with various pipeline materials. Dr. Rajah has significant experience in the pipeline condition assessment and asset management studies of large diameter pipeline assets, as well as in the risk assessment and risk mitigation studies for existing and new large diameter pipeline assets. He has led several unique, multi-disciplinary, and award winning projects in his career, and has published over 60 technical papers related to pipeline design. Sri is a principal engineer with CDM Smith and also serves as the firm's discipline leader and subject matter expert for seismic analysis and design.

Dr. Rajah has an extensive and continuous history of volunteering with ASCE, particularly with the Pipeline Division, as a contributing member and in various leadership roles (secretary, vice-chair, and chair) for multiple technical and task committees, as an associate editor of the ASCE Journal of Pipeline Systems Engineering and Practice, and as a volunteer member in various conference steering committees and in technical program committees. In 2014, he served as the conference co-chair of the Pipelines 2014 Speciality Conference held in Portland, Oregon, and led that conference as one of the historical successes of the Pipeline Division.

With the formation of the Utilities Engineering and Surveying Institute (UESI) in 2015, Dr. Rajah continued to volunteer with several technical and administrative committees in various volunteer leadership roles, including as the chair of UESI Standards and Publications Council (USPC), formerly known as Standards Division of UESI. Starting in 2018, he has also been serving as the UESI representative on the Codes and Standards Committee (CSC) of ASCE. Dr. Rajah was recently awarded the prestigious 2021 Award of Excellence of the Pipeline Division, in recognition of his "... outstanding continuous and conspicuous service to the profession, ASCE and the Pipeline Division".

SUMMARY LIST OF CURRENT & PAST VOLUNTEER ACTIVITIES

The following is a list of Dr. Rajah's past volunteer activities to ASCE, UESI; UESI Technical Divisions, UESI Standards and Publications Council (USPC), and other professional organisations such as Americal Waterworks Association (AWWA), ASTM International (ASTM), and Structural Engineers Association of Washington (SEAW).

- Chair, Executive Committee(ExCOM) (2016 – present; through September 30, 2022), UESI Standards and Publications Council (formerly UESI Standards Division).
- UESI Representative (2018-Present), ASCE Codes and Standards Committee (CSC).
- Associate Editor (2009-2020), ASCE Journal of Pipeline Systems Engineering and Practice.
- Conference Co-Chair (2011-2014), ASCE Pipeline Division Speciality Conference "Pipelines 2014, Portland, Oregon".
- Chair (2007 – Present), Vice-Chair (2005-2007), Member (1999-2005), UESI Pipeline Location and Installation Technical Committee.

- Chair & Parent Technical Committee Chair (2016 – Present), ASCE Task Committee on Seismic Design of Buried Water & Wastewater Pipeline.
- Secretary & Parent Technical. Committee Chair (2008 – Present), ASCE Task Committee on Thrust Restraint Design of Buried Pipelines.
- Parent Technical Committee Chair (2007-2009; 2012-2013; 2016-todate) & Member (2016-todate), ASCE Task Committee on Rewrite of MOP 117 – Inspecting Pipeline Installation
- Parent Technical Committee Chair & Member (2008 – todate), ASCE Task Committee on Pipe Bedding, Backfill, and Shoring.
- Parent Technical Committee Chair & Member (2011 – 2022), ASCE Task Committee on Sustainable Design of Buried Pipelines.
- Member (2009-2020), ASCE Technical Committee on Pipeline Publications.
- Member (2001 to 2017), ASCE Technical Committee on Pipeline Research.
- Member (1999 to todate), ASCE Technical Committee on Planning and Design.
- Member (2011 to todate), ASCE Task Committee on Pressure Pipeline Design for Water and Wastewater.
- Member (2010- todate), AWWA Standards Subcommittee - C900, PVC Pipe.
- Member(2012-2016), SEAW Task Committee on Sustainability.
- Voting Member (2007-2018), ASTM Standard Committee F17 on Plastic Piping Systems.
- Voting Member (2007-2018), ASTM Standard Committee F36 on Technology and Underground Utilities.
- Voting Member (2013-2017), ASTM Standard Committee E60 on Sustainability.

In addition to the above committee activities, Dr. Rajah has volunteered time for various other ASCE and UESI causes. A partial summary list follows:

- Organized, and/or served as a moderator and/or speaker, preconference workshops on several technical topics at several past ASCE/UESI Pipelines Conferencs
 - Seismic design (Pipelines 2022; Pipelines 2020; Pipelines 2019; Pipelines 2018; and Pipelines 2013).
 - Thrust restraint design (Pipelines 2020; Pipelines 2014; and Pipelines 2010).
 - Sustainable design (Pipelines 2011).
- Served as a speaker on technical topics in preconference workshops organized by others at past ASCE/UESI Pipelines Conferencs (Pipelines 2015; and Pipelines 2021).
- Served in several Pipelines Conference Steering Committees, e.g., Conference Co-Chair (2014); Past Chair (2015); and Sponsoring Technical Committee Chair (as Chair of Pipeline Location & Installation Technical Committee).
- Served in several Pipelines Conference Technical Program Committees in different capacities, e.g., Track Chair (2013); Moderator (several conferencs); and Reviewer (almost all conferencs since 1997).
- Recenty served in the UESI Board ad-hoc committees that revised the UESI bylaws and UESI Policies and Procedures documents.
- Currently serving in the CSC ad-hoc committee that is revising the Procedures Guide for ASCE Codes and Standards Committee (CSC), Standards Councils, and Standards Council ExCOMs.

Purpose Statement – Why I Wish to Serve as an UESI Governor?

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As a long time volunteer of the Pipeline Division, active volunteer of various committees of Utilities Engineering and Surveying Institute (UESI) from its inception, and as a UESI representative on the Codes and Standards Committee (CSC) of ASCE since 2018, I have been fortunate to represent various UESI entities and contribute to their growth. While contributing to the individual committee functions, I have also had the unique opportunity to observe and learn the inner workings of various UESI and ASCE entities. Since the formation of UESI, its incorporated technical divisions (Pipeline [PLD], and Surveying and Geomatics [SGD]), as well as the newly created technical divisions (Utility Asset Management [UAMD] and Utility Risk Management [URMD]) and the UESI Standards and Publications Council (USPC), formerly the Standards Division (SD) of UESI, have seen phenomenal growth.

One area with room for improvement, however, is aligning and leveraging the synergies amongst the various UESI divisions, various ASCE Institutes (e.g., with Construction Institute [CI], Geo Institute [GI] and Structural Engineering Institute [SEI]), and Committee on Technical Advancement (CTA) divisions (e.g., Infrastructure Resilience Division [IRD], Energy Division [ED], Forensic Engineering Division [FED]).

If elected as an UESI Governor, I will work towards improving the relationships and communications among these divisions by promoting the following ideas:

- Support maintaining existing, and creating new, UESI publications (e.g., committee reports, white papers, manuals of practices, pre-standards, and standards) pertaining to all technical divisions (PLD, SGD, UAMD, and URMD).
- Extend potential collaborative efforts with various ASCE Institutes (e.g., with CI, GI and SEI), CTA divisions (e.g., IRD, ED, FED), and external organizations (e.g., AWWA), that will benefit UESI technical divisions and USPC.
- Expand the purpose statement of the UAMD to include and/or maximize water and wastewater infrastructure asset management technical areas without impinging on the focus areas of PLD.
- Expand the purpose statement of the URMD to include and/or maximize water and wastewater infrastructure risk management technical areas (e.g., seismic fragility assessment of pipelines; seismic and other risk assessment; impacts of geohazards on pipeline) without impinging on the focus areas of the PLD and the IRD of CTA.
- Encourage collaboration with various UESI Institutes (e.g., with GI and SEI), CTA divisions (e.g., IRD), and external organizations (e.g., AWWA). Identify and promote new UESI publications (committee reports, pre-standards, manuals of practices, pre-standards and standards).
- Continue to represent the interests of the UESI, all technical divisions of UESI, and USPC, with particular emphasis on the interests of the PLD and the USPC.

I am eternally thankful for the UESI and its membership, for the volunteer opportunities entrusted to me so far, as these assignments have provided me immense personal satisfaction, not only from contributing to the advancement of the civil engineering profession, but also from giving back to the community at large. I look forward to the opportunity to continue serving you, the UESI technical divisions, and the UESI, in this critical role as a member of the UESI Board of Governors. Thank you.