

Sri Sritharan

Wilkinson Chair of Interdisciplinary Engineering and Professor of Structural Engineering
Department of Civil, Construction and Environmental Engineering
376 Town Engineering
Iowa State University (ISU)
Ames, Iowa 50011

Education

University of Peradeniya, Sri Lanka	Civil Engineering	B.Sc. (First Class Honors), 1985
University of Auckland, New Zealand	Civil Engineering	M.E. (Distinction), 1989
University of California, San Diego	Structural Engineering	Ph.D., 1998

Professional Experience

2018 – 2021 Adjunct Professor, Department of Civil, Environmental, and Geo- Engineering,
University of Minnesota (UMN)
2016 – present Interim Associate Dean for Strategic Initiatives, College of Engineering, ISU
2016 – 2021 Wilkinson Chair of Interdisciplinary Engineering, ISU
2010–present Professor, Iowa State University, Ames
2007–2012 Associate Chair and Director of Graduate Education, Iowa State University
2005–2010 Associate Professor, Iowa State University, Ames
1999–2005 Assistant Professor, Iowa State University, Ames
1998–1999 Assistant Project Scientist, University of California, San Diego
1989–1993 Scientist, Engineering Seismology Section, IGNS, New Zealand

Professional Honors and Affiliations

ISU Award for Outstanding Achievement in Research (2019); T.Y. Lin Award, American Society for Civil Engineering (2016); Delmar L. Bloem Distinguished Service Award, American Concrete Institute (2016); D. R. Boylan Eminent Faculty Award for Research; College of Engineering, Iowa State University (2016); Renewable Energy Impact Award, Iowa Energy Center (2015); Best Paper Award, Soil Mechanics Section of the Transportation Research Board (2012); The University Honors Mentoring Award for Excellence in Honors Mentoring/Advising (2012, ISU); ISU Award for Mid-Career Achievement in Research; Fellow, American Concrete Institute (2009); Best IT Innovation Award, NEESinc. (2008); Grace Miller Wilson and T. A. Wilson Endowed Engineering Professorship, Iowa State University (2008); Distinguished Research Visitor Award (2005), University of Auckland, New Zealand; Young Educator Achievement Award (2003), Harry H. Edwards Industry Advancement Award (2001), Precast/Prestressed Concrete Institute; Charles W. Shafer Faculty Award, Department of Civil, Construction and Environmental Engineering Iowa State University (2003); Martin P. Korn Award, *PCI Journal* (2000; 2015; 2016); Finalist, Eleventh Melosh Competition on Finite Element Analysis (1999); Fowlds Memorial Prize in Engineering, University of Auckland, New Zealand (1989).

American Society of Civil Engineers (ASCE); American Concrete Institute (ACI); Earthquake Engineering Research Institute; New Zealand Society for Earthquake Engineering; Prestressed/Precast Concrete Institute (PCI); Federation Internationale du Beton (FIB) Commission 7; Former Chair of ACI 341 (Earthquake-Resistant Concrete Bridges); ACI-ASCE 447 (Finite Element Analysis of Reinforced Concrete Structures); PCI Research & Development Committee.

Publication/Presentation Summary

Journal papers:	104
Conference Papers:	157
Other Presentations:	180

Selected Recent Publications

- Aaleti, S. and **Sritharan, S.** 2019. An Experimental Investigation to Quantify the Bonding Characteristics between UHPC and Normal Strength Concrete. *ASCE Journal of Bridge Engineering* 24 (6). 10.1061/(ASCE)BE.1943-5592.0001391.
- Cheng, Z. and **Sritharan, S.** 2019. Side Shear Strength of Preformed Socket Connections Suitable for Vertical Precast Members. *ASCE Journal of Bridge Engineering*. 10.1061/(ASCE)BE.1943-5592.0001391.
- Liang, X. and **Sritharan, S.** 2018. Effects of Confinement in Circular Hollow Concrete Columns. *ASCE Journal of Structural Engineering*. DOI: 10.1061/(ASCE)ST.1943-541X.0002151.
- Sritharan, S.**, Doiron, G., Bierwagen, D., Keierleber, B., and Abu-Hawash, A. 2017. The First Application of UUPC Bridge Deck Overlay in North America. *Transportation Research Record: Journal of the Transportation Research Board*. DOI: 10.1177/0361198118755665.
- Sritharan, S.**, Fanous, A., Huang, J., Suleiman, M., and Arulmoli, K. 2016. Minimum Confinement Reinforcement for Prestressed Concrete Piles and a Rational Seismic Design Framework. *PCI Journal* 61 (1) 51-69.
- Gheitanbaf, E. H., **Sritharan, S.**, Rouse, J. M., Aaleti, S. 2015. Bridge Decks with Precast UHPC Waffle Panels: A Field Evaluation and Design Optimization. *ASCE Journal of Bridge Engineering*. DOI: 10.1002/eqe.2576.
- Sritharan, S.** 2015. Wind Turbine Towers: Precast concrete Hexcrete may help increase renewable energy capacity with taller hub height. *PCI Journal* 60 (6):33-38.
- Sritharan, S.** 2015. Design of UHPC Structural Members: Lessons Learned and ASTM Test Requirements. *Advances in Civil Engineering Materials, An ASTM International Journal*, 4(2): 113-131. DOI:10.1520/ACEM20140042.
- Sritharan, S.**, Aaleti, S., Henry, R. H., Tsai, K. C., and Liu, K. Y. 2015. Precast Concrete Wall with End Columns (PreWEC) for Seismic Resistant Design. *Earthquake Engineering Structural Dynamics*, 44 (10): 2075–2092. DOI: 10.1002/eqe.2576.
- Aaleti, S., Petersen, B., and **Sritharan, S.** 2013. Design Guide for Precast UHPC Waffle Deck Panel System, including Connections. Publication No. FHWA-HIF-13-032, Federal Highway Administration, US Department of Transportation, 125 pp.
- Aaleti, S., **Sritharan, S.**, Beirwagen, D., and Wipf, T. J. 2011. Experimental Evaluation of Structural Behavior of Precast UHPC Waffle Bridge Deck Panels and Connections. *Transportation Research Record: Journal of the Transportation Research Board of the National Academies*, 2251: 82-92.

Graduate and Postdoctoral Advisors

Late Emeritus Professor M. J. Nigel Priestley (Ph.D. advisor, University of California, San Diego)

Graduate and Postdoctoral Scholars Advised

Current M.S.: R. Bodendorfer; E. Enrique Rubio-Delgado, K. Coblentz

Current Ph.D.: S. Jain, B. Fleming; B. Cai

Current Postdoc: P. Kalmago, S. Gali

Completed M.S.: 43 students

Completed Ph.D.: 20, including D. Kalliontzis (Asst. Prof., University of Houston); M. Nazari, (Asst. Prof., Cal State Fresno); X. Liang (Asst. Professor, Tianjin Chengjian University); J. Vander Werff (Assoc. Prof., Dordt College); L. Wotherspoon (Senior Lecturer, Uni. of Auckland), Abdel-Salam (Associate Professor, The British Uni. in Egypt); R. Henry (Senior Lecturer, Uni. of Auckland); K. Ng (Assoc. Prof., Uni. of Wyoming); S. Aaleti (Assoc. Prof. Uni. of Alabama)

Completed Postdoc: J. Zhao (Assoc. Prof., Uni. of Wisconsin, Milwaukee); M. Suleiman (Assoc. Professor, Lehigh Uni.); K. Ng, S. Aaleti; I. Ho (Asst. Prof., Uni. of North Dakota); X. Liang; S. Lin (Assoc. Prof., Dalian University); S. Pachalla (Asst. professor; IIT Jammu, India).