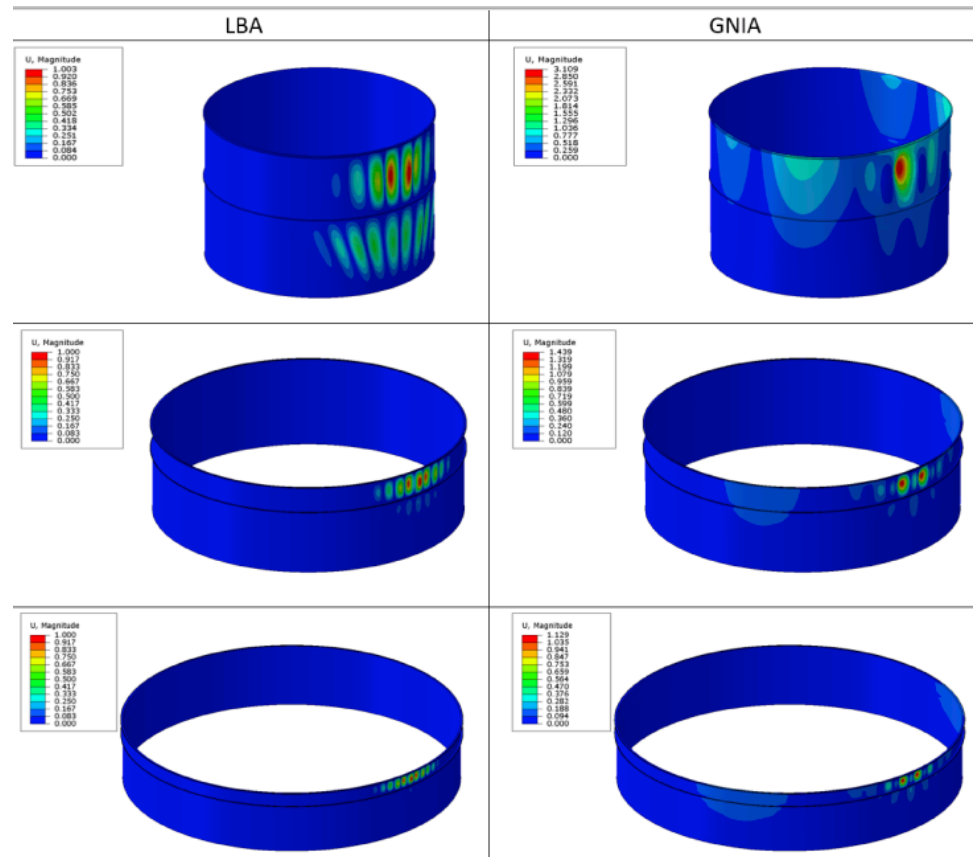




**Professor Sukru Guzey**



From: Tianlong Sun, Eyas Azzuni and Sukru Guzey, “Stability of open-topped storage tanks with top stiffener and one intermediate stiffener subject to wind loading”, ASME Journal of Pressure Vessel Technology, Vol. 140, No. 1, February 2018

See:

[https://engineering.purdue.edu/Engr/People/NewFaculty/New\\_Faculty\\_2016/guzey.html](https://engineering.purdue.edu/Engr/People/NewFaculty/New_Faculty_2016/guzey.html)

[https://engineering.purdue.edu/CE/People/view\\_person?resource\\_id=112221](https://engineering.purdue.edu/CE/People/view_person?resource_id=112221)

<https://scholar.google.com/citations?user=mKBUCvEAAAAJ&hl=en>

<https://www.linkedin.com/in/sukru-guzey-90a97b4>

[https://www.researchgate.net/profile/Sukru\\_Guzey](https://www.researchgate.net/profile/Sukru_Guzey)

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### Biography:

Dr. Guzey received his PhD in Civil Engineering from University of Minnesota in 2006, his MS and BS in Civil Engineering from Middle East Technical University (METU), Turkey, in 2002 and 2000, respectively. Before joining the Lyles School of Civil Engineering at Purdue University, Dr. Guzey worked at AEC Engineering, Minneapolis, MN (2013-2014) as a senior structural engineer and advanced design and analysis team leader. From 2011-2013, he worked as a senior structural engineer at Uni-Systems, Minneapolis, MN. From 2006-2011, Dr. Guzey was a structural engineer at AEC Engineering. He is a registered professional engineer in the State of Minnesota.

Dr. Guzey's research has been primarily focused on structural and continuum mechanics, computational solid mechanics, and discontinuous Galerkin methods. He has been working on design and repair of shell structures and fixed process equipment to develop safe, reliable and economical engineering solutions.

### **Selected Publications:**

Harsh Bohra, Eyas Azzuni and Sukru Guzey, "Seismic analysis of open-top storage tanks with flexible foundation", ASME Journal of Pressure Vessel Technology, Vol. 141, No. 4, 041801, Paper No. PVT-18-1130, 2019, doi: 10.1115/1.4043373

Yen-Chen Chiang and Sukru Guzey, "Influence of internal inward pressure on stability of open-top aboveground steel tanks subjected to wind loading", ASME Journal of Pressure Vessel Technology, Vol. 141, No. 3, 031204, Paper No. PVT-18-1265, 2019, doi: 10.1115/1.4042992

E. Azzuni and S. Guzey, "Behavior of thin elastic circular rings with large deformations under nonuniform loads", ASME Journal of Pressure Vessel Technology, Vol. 141, No. 1, 011201, 14 pages, Paper No. PVT-17-1163, February 2019, doi: 10.1115/1.4041939

Eyas Azzuni and Sukru Guzey, "Failure modes of American Petroleum Institute 12F tanks with a rectangular cleanout and stepped shell design", ASME Journal of Pressure Vessel Technology, Vol. 140, No. 6, 061203, Paper No. PVT-17-1248, December 2018, doi: 10.1115/1.4041340

Eyas Azzuni and Sukru Guzey, "A perturbation approach on buckling and postbuckling of circular rings under nonuniform loads", International Journal of Mechanical Sciences, Vol. 137, pp 86-95, March 2018

J.M. Spritzer and S. Guzey, "Nonlinear numerical evaluation of large open-top aboveground steel welded liquid storage tanks excited by seismic loads", Thin-Walled Structures, Vol. 119, pp 662-676, October 2017, <https://doi.org/10.1016/j.tws.2017.07.017>

Tianlong Sun, Eyas Azzuni and Sukru Guzey, "Stability of open-topped storage tanks with top stiffener and one intermediate stiffener subject to wind loading", ASME Journal of Pressure Vessel Technology, Vol. 140, No. 1, February 2018, Paper No: PVT-17-1124; doi: 10.1115/1.4038723

Andres Rondon and Sukru Guzey, "Determination of failure pressure modes of the API specification 12F shop-welded, flat-bottom tanks", ASME Journal of Pressure Vessel Technology, Vol. 139, No. 4, 041409, published online April 26, 2017 (14 pages), doi: 10.1115/1.4036430

Spritzer, J. M., and S. Guzey. 2017. "Review of API 650 Annex E: Design of large steel welded aboveground storage tanks excited by seismic loads." Thin-Walled Structures 112:41-65. doi: 10.1016/j.tws.2016.11.013.

Rondon, A. , and Guzey, S. , 2017, " Brittle Fracture Assessment of the API Specification 12F Shop Welded Flat Bottom Tanks," Int. J. Pressure Vessels Piping, 158, pp. 69–78.

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Azzuni, E., and S. Guzey. 2017. "Stability of Open Top Cylindrical Steel Storage Tanks: Design of Top Wind Girder." ASME Journal of Pressure Vessel Technology. 139(3), 031207 doi:10.1115/1.4035507.

Rondon, A., and S. Guzey. 2016. "Determination of localized stresses in the shell above anchor bolt chairs attachments of anchored storage tanks." Thin-Walled Structures 98:617-626. doi: 10.1016/j.tws.2015.11.004.

Rondon, A. , and Guzey, S. , 2017, " Determination of Failure Pressure Modes of the API Specification 12F Shop-Welded, Flat-Bottom Tanks," ASME J. Pressure Vessel Technol., 139(4), p. 041409.

Eyas Azzuni and Sukru Guzey, "A review of the shell buckling and stiffener ring design for cylindrical steel storage tanks", Paper No. PVP2016-63204, ASME 2016 Pressure Vessels and Piping Conference, Vol. 3: Design and Analysis, Cancouver, British Columbia, Canada, July 17-21, 2016, DOI: 10.1115/PVP2016-63204

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Guzey, S. , and Rondon, A. , 2015, Determination of the Failure Pressure Modes for the API Specification 12F Shop Welded, Flat Bottom Tanks for Oil Storage, American Petroleum Institute, Washington, DC, Report No. 15G06-01

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