

**Steve Roop, Ph.D.***Founder/Chairman*

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BIOGRAPHICAL SUMMARY

Dr. Roop is the designer of the Freight Shuttle System (FSS) and the founder/chairman of Freight Shuttle International. Beginning in 2005, his work on the FSS focused on developing an approach to goods movement that would enhance this critical industry and overcome the growing challenges associated with congestion, infrastructure deterioration, safety, and air quality. With more than 25 years in freight transportation systems and operations research, Dr. Roop's expertise in rail and trucking led to the innovative solution of introducing an entirely new mode of automated intermodal freight systems.

Dr. Roop is a senior research scientist at the Texas A&M Transportation Institute (TTI) formerly overseeing the Multimodal Freight Transportation Programs at TTI. With more than 25 years of experience in freight transportation systems and operations, he has focused on the logistical and economic interrelationships between rail, ports and waterways, intermodal trucking, and pipelines.

Dr. Roop is a systems design engineer leading TTI's efforts to develop innovative systems for freight transportation. As the designer of the FSS, Dr. Roop oversees the prototype design—technical requirements, functionality, and systems performance. He has been instrumental in communicating the potential of the FSS to stakeholders in industry and government.

Among his most significant accomplishments have been the identification and selection of the blue-ribbon team of technical and engineering firms that comprise the Freight Shuttle Development Team. These firms span the engineering disciplines that make up the FSS—civil, mechanical, electrical, computer, and industrial engineering. Dr. Roop holds 17 patents associated with the FSS, awarded in 12 countries.