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Space Train

**Thomas E. Lett, III, AIA/Joe Jones, AIA/Jack Ballard, AIA
3401 Sanibel Dr., Lexington, KY 40509 USA; 1-859-252-4703
tel@aol.com**

ABSTRACT

Development of the orbital platform, *Space Train*, serves as a conduit for human access to space. This project has potential to evolve into a city of over 30,000 people within 100 years and to facilitate 1,000 people per hour affordable access to space. The transportation phase is the first order of construction with design based on a space frame tube 10 meters diameter and 5,000 kilometers long. A multiple train track system is applied within for travel from end to end. The ends of the space frame form access points to and from earth. The center serves as an access point from beyond earth, and both ends function as launching platforms from earth's gravitational field. Rotation of the frame is counter to orbital direction and allows an access window of 2 minutes where ends of the frame are moving approximately 30 meters per second relative to the earth's surface at an altitude of 44,000 meters. This window occurs every 26 minutes at different points of the earth's surface. The effect is a movable airport.