Featured Research Articles from the Federal Aviation Administration Center of Excellence for Commercial Space Transportation

Ken Davidian

The Center of Excellence for Commercial Space Transportation (COE CST) is a research consortium sponsored by the Federal Aviation Administration Office of Commercial Space Transportation and started in 2010. The COE CST, currently in its 10th year of operation, is planned to end in 2022. All COEs pursue three principle goals (research, training, and outreach) and have a 1:1 matching requirement for all federal funding, making the research investment good value for the U.S. taxpayer. COE CST membership includes 10 core universities supplemented by affiliate and associate members, including private organizations and research institutions.

Annual executive summary reports of COE CST activities can be found on the web at www.coe-cst.org/administrative-publications, and many COE CST technical publications and journal articles can be found at www.coe-cst.org/publications. As was done in the past, special issues of *New Space* have also featured COE CST articles. This issue is one of those special issues, and highlights COE CST work performed during the past year. Three of this issue's four research articles are from COE CST participants: one affiliate member ("Why personalized medicine is the frontier of medicine and performance for humans in space," by Dr. Michael Schmidt of Sovaris Aerospace), one core university member ("Multi-species single-led mid-infrared gas sensor for space habitats and vehicles," led by Dr. Subith Vasu of the University of Central Florida), and the program manager ("Space tourism industry emergence: description and data," by Dr. Ken Davidian). I want to mention here that a link to the data supporting this third article is available in the Supplementary Appendix of the article.

Also included in this issue is the article entitled "Space resources commodities exchange" by multiple authors from the Colorado School of Mines. This is an excellent article combining technical and financial disciplines on a topic that truly fits the purpose of *New Space*.

Finally, this issue includes an interview with Dr. Timiebi Aganaba-Jeanty, a member of our newly founded Associate Editor Board. I'll write more about the board, and we'll publish interviews with selected members in future issues of *New Space*.

Enjoy!