

COSPAR 2022 Abstract:32259

Submit with me just me and Andrew. Me as 1st author, Andrew as speaker.

COSPAR Abstract 19615

H.D. Smith^{1,2}, K. Sloan , A. G. Duncan^{1,2}, D. Robertson¹, K. Chankaya², and A. Anderson². ¹NASA Ames Research Center, Moffett Field, CA 94035, ²The Mars Society, Lakewood, CO 80215

PEX2:

Human and robotic partnerships and precursor missions

Title: The University Rover Challenge: A competition highlighting Human and Robotic partnerships for exploration.

The University Rover Challenge began in 2007 with 4 American college teams competing, now in it's 15th year there are over 80 teams from 14 countries registered to compete for the top rover designed to assist humans in the exploration of Mars. The Rovers compete aided by the University teams in four tasks (3 engineering and 1 science) in the Mars analog environment of the Utah Southern Desert in the United States. In this presentation we show amazing rover designs with videos demonstrating the incredible ingenuity, skill and determination of the world's most talented college students. We describe the evolution of the competition, diversity of the teams, and common challenges faced by the robotic explorers.

The competition goal *“Design and build the next generation of Mars rovers that will one day work alongside human explorers in the field.”*