

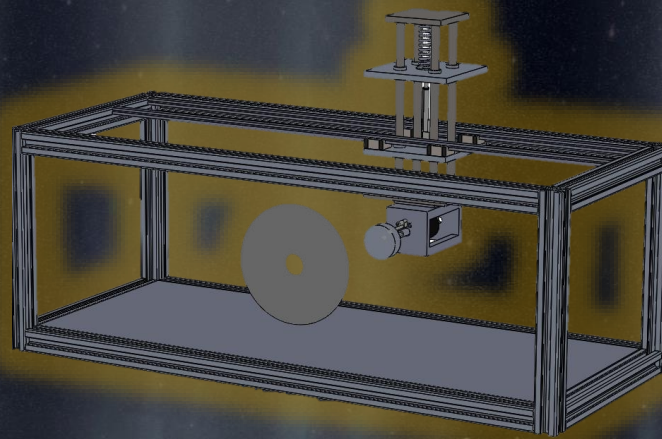


Single-Wheel Test Rig for Ocean Worlds

–Supported by 2016 COLDTech Program funded by NASA

Objectives

1. Design, fabricate & validate a single-wheel test rig
2. Design & fabricate a low-fidelity test tire prototype



Project Team

Purdue University

Dr. Jim Longuski (PI), Dr. Sarag Saikia (Co-PI),
Ye Lu and Athul Pradeepkumar (Graduate Students)

Smithers Rapra Inc.

Dr. Madhura Rajapakshe

Thin Red Line Aerospace

Maxim de Jong and Brian Aiken

Capabilities

- Drawbar-Pull
- Wheel Slippage
- Endurance Testing
- Larger Diameter
- Dynamic Load Control
- Slip and Camber Angle Control