Climbing Sandy Slopes
Faculty: David P. Miller

OBJECTIVES

- Mechanical/Computational model of what happens as vehicle climbs sandy slopes
- Design of wheel surface optimized for sandy slope
- Design of all purpose wheel for dealing with rocks, dirt and sandy slopes

METHODS

- SWEET wheel test bed
- SR2 Rover
- Lunar 2kg rover
- LARA sand foot

APPLICATIONS

- More reliable exploration vehicles (Moon and Mars rovers)
- Improved efficiency of off road sport/utility vehicles
- Potential improvements in shoes and other surfaces that interact with loose terrain

RESOURCES NEEDED

1 PhD Student

REFERENCES