

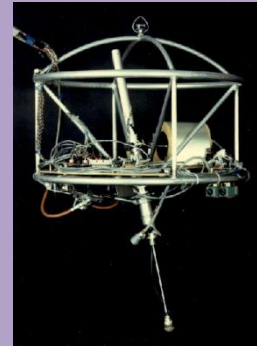
SEMINAR IN PHYSICS

Friday, March 31, 2017

3:30-4:25 – Ross 0220



~ Refreshments! ~



Robotic Locomotion: An Introduction to Dynamics

Arick Sweitzer

The study of locomotion and its application in robotics is not new. The interest to understand the technicalities of legged locomotion observed in nature and the efforts to replicate them to mobilize by leg mechanisms have been mentioned in the mythology and ancient scripts from the ancient Greek, Indian, Egyptian, and Chinese civilization. The goal of roboticist in the field of robotic locomotion is to develop robots that independently walk and run, in addition to assisting humans to walk and run. By learning from nature roboticists hope to achieve the same level of speed and agility seen in animals. In this presentation, we will look at where certain gaits come from, why they are useful, and how they can be applied in the development of a dynamic legged robots.