

2011-2012

Graduate Seminar Series

**The Department of
Mechanical Engineering – Engineering Mechanics**

Proudly Presents

Mr. Zachary Folcik
Massachusetts Institute of Technology Lincoln Laboratory



Mr. Folcik has been a staff member at MIT Lincoln Laboratory since 2000. Mr. Folcik has a Bachelor's degree in Computer Science from Michigan Technological University and a Master's degree in Aeronautics and Astronautics from the Massachusetts Institute of Technology. His work has focused on problems in orbit estimation, orbit modeling, observation association, satellite maneuver detection and optimal thrust planning.

Thursday, Mar. 1, 2012

4:00 – 5:00 p.m.

Room 112, ME-EM Bldg.

Predicting Close Approaches in Geosynchronous Orbit

Earth orbit has become a crowded environment. The risk of satellite collisions has become a real issue in low earth and geosynchronous orbit. This seminar introduces the current space environment, collision risk assessment and a program at MIT Lincoln Laboratory to mitigate collision risks in geosynchronous orbit. Research and development efforts to improve satellite orbit estimates and uncertainty knowledge will also be discussed.