Tuesday, April 30, 2013

9:00  Corey Mason with Jesse Berezovsky
      Mapping interactions in hybrid systems with active scanning probes

9:20  Tadeas Liska with Jesse Berezovsky
      Fabrication and characterization of integrated optical cavities for enhanced spin measurements

9:40  Dan Baxter with Dan Akerib and Tom Shutt
      Removal of trace krypton from xenon using charcoal chromatography in the saturated regime

10:00 Jake Bell with Dan Akerib and Tom Shutt
      Capacitive level sensors for use in liquid xenon detectors

10:20 Break

10:40 Jason Tabachnik with Andrew Tolley
      Exploring the dualities between fluids, strings, and gravity

11:00 Dane Pittock with Claudia de Rahm
      Modified gravity on solar system scales

11:20 Terence Southard with Roger Quinn
      Proposal for the construction of an ornithopter

11:40 Johnathon Frey with Ken Singer
      Photobleaching of fluorescent dyes in polymer films

12:00 Chris Emr with Paul Barnhart
      Observing lake Erie algae blooms via hyper spectral imaging on CubeSat
Wednesday, May 1, 2013

9:00  Richard Metzger with Ken Singer  
*Liquid crystal semiconductor nanostructures*

9:20  Emily Griffin with Ken Singer  
*Aluminum zinc oxide transparent conductors for optical cavity enhanced polymer photovoltaics*

9:40  Vijay Edwin with Roger French  
*SDLE SunFarm Data Acquisition and Management Framework*

10:00  Nell Lynn Giltinan with Gary Chottiner  
*Computer controlled temperature programmed desorption from noble metal surfaces*

10:20  **Break**

10:40  Alexander Cluff with John Ruhl  
*Creating an “on-sky” test environment for CMB detector arrays*

11:00  Max Service with Paul Harding  
*Asteroseismology using Kepler*

11:20  Mason Eastman with Harsh Mathur  
*Holding time for near-threshold tunneling*

11:40  Jake Arwe with Xuan Gao  
*I Incorporation of plasma into CVD graphene growth*

12:00  Jacob Marx with Xuan Gao  
*The epitaxial growth of topological insulator thin films using chemical vapor deposition*

12:20  **Lunch**

1:30  Sam Roberts with Marc Vitantonio  
*Dual state pneumatic regulator with cyclic reset*

1:50  Casey Bennett with Peter Thomas and David Friel  
*Consequences of random ion channel gating for irregularity of Purkinje cell firing patterns*

2:10  Mathew Solomon with Mike Martens  
*Working towards the ideal nanoparticle for Magnetic Particle Imaging (MPI)*