Monday, January 30, 2017

7:30 – 8:00 Coffee and Rolls
8:00 – 8:15 Director David Bogy

- WELCOME AND 2016 ANNUAL REPORT

**Session I**  Servos and Actuators

8:30 – 9:45 Professor Tomizuka

- A generalized anti-windup scheme considering amplitude and rate saturation  Shiying Zhou
- Robust multi-rate control for high-frequency disturbance attenuation  Liting Sun
- H-infinity based optimal disturbance estimation and rejection in high-precision systems  Minghui Zheng

09:45  – 10:00 Break

**Session II**  Head/Media Tribology

10:00 – 11:00 Professor Komvopoulos

- Synthesis of Ultrathin Amorphous Carbon Overcoats for Heat-Assisted Magnetic Recording  Josef Matlak
- Ultrathin carbon overcoats for heat-assisted magnetic recording  Shengxi Wang

- 2017 RESEARCH PROPOSALS

12:00 – 1:00  Lunch catered to Banatao Auditorium (CITRIS Building)
Session IV  
**Head/Media Interface for HAMR I: Tribology**

1:00 – 2:30  
*Professor Bogy*

- Effect of functional end-groups on lubricant reflow in HAMR  
  Soroush Sarabi
- The effects of Viscoelasticity for HAMR Lubricants  
  Soroush Sarabi
- Slider Particle Contamination in Heat Assisted Magnetic Recording  
  Siddhesh Sakhalkar
- Atom-by-atom model for nanoscale wear of a single asperities  
  Dr. Yunian Shen
- Heat Effect on the Near-Field Transducer for Heat-Assisted Magnetic Recording  
  Yueqiang Hu

2:30 – 3:00  
**Break**

Session V  
**Head/Media Interface for HAMR II: Heat Transfer**

3:00 – 4:30  
*Professor Bogy*

- CML 2010-2016: progress in nanoscale heat transfer  
  Dr. Bair Budaev
- Use of an Embedded Contact Sensor to Study Nanoscale Heat Transfer in Heat Assisted Magnetic Recording  
  Haoyu Wu
- Experimental and simulation study of nano scale HDI heat transfer using a PMR head  
  Yuan Ma
- Effects of phonon conduction and phonon interference on HDI heat transfer in HAMR technology  
  Amin Ghafari
- Near field thermal radiation between the slider and disk based on fluctuational electrodynamics  
  Chi Ma
- Slider dynamics evolution at near contact/contact condition  
  Dr. Yu Wang

4:30 – 5:00  
**Open Forum Discussion and Industry Feedback** *(Banatao Auditorium)*

5:00 – 6:30  
**Posters session and Buffet reception** *(Banatao Auditorium)*

6:00 – 6:30  
**Advisory Council Meeting**

6:00 – 6:30  
FANUC Room – 6th Floor, Etcheverry Hall

6:30 – 7:30  
**Lab Tours and Discussions**

5119, 5121, 5147, 5149 & 5151 Etcheverry Hall