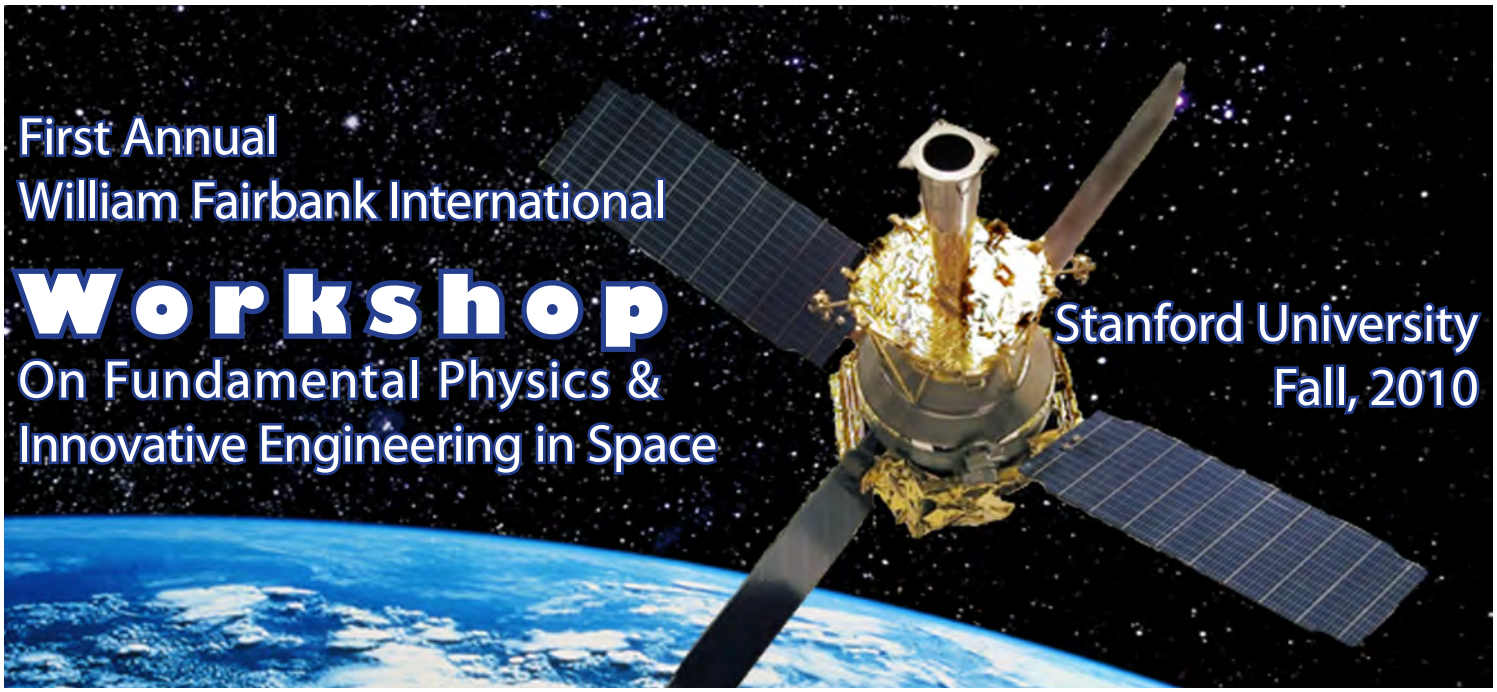


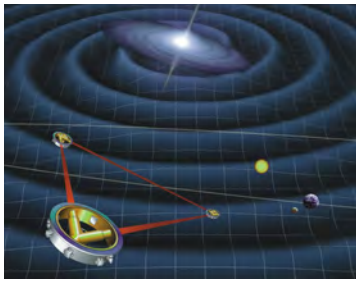
First Annual
William Fairbank International

Workshop

On Fundamental Physics &
Innovative Engineering in Space

Stanford University
Fall, 2010

The marriage of applied physics and aerospace engineering, enabling fundamental physics experiments to be performed in space.

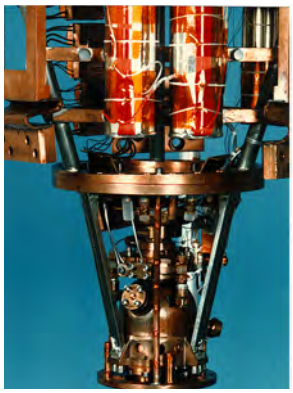


The space environment, combined with a wide range of new sensor and control technologies, opens many exciting opportunities for revolutionary, cutting-edge experiments in fundamental physics. Developing and deploying these new technologies places unprecedented demands for innovative engineering across multiple disciplines.

Who Should Attend?

- Experimental physicists, aerospace engineers, industrial leaders, university and governmental managers and policy makers.

Dedicated workshop sessions will include:



- **Proposed missions.** Physical foundations, core technical requirements, technology needs.
- **Mission design.** Instruments, space vehicles, operations. University-Industry-Government collaboration. Mission-specific reviews.
- **Technologies.** Breakthrough technologies, sensors, techniques, materials.
- **Project management and operations.** Simulation, testing/verification, operations tools, training, risk management, requirements specification and control.
- **Lessons Learned.** Instrument design and operation, data analysis, system-level interactions, modeling, environment.

This conference is named in honor of William Fairbank. In an extremely productive career, Professor Fairbank demonstrated a powerful ability to bring physicists and engineers into creative exchange. His pioneering efforts were essential to many of the first generation of *fundamental physics in space* experiments. These missions include Gravity Probe A, Gravity Probe B, Lambda Point, CHeX and AMS. All were innovations, not only in technology, but in management and engineering approaches.

Web Site: http://einstein.stanford.edu/fb_workshop

Email: fb_workshop@relgyro.stanford.edu