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.
- **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.

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