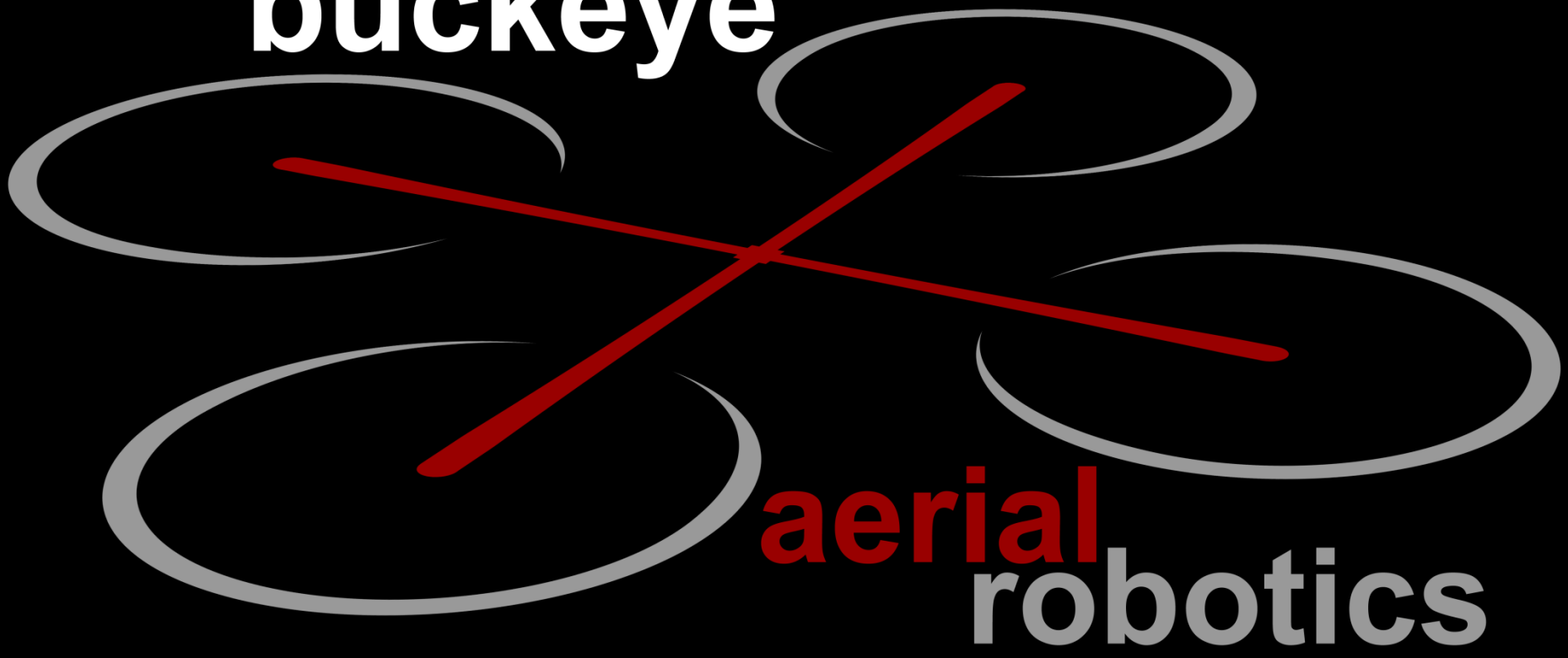

Informational Meeting

for prospective members

Autumn 2009

buckeye aerial robotics

- Established 2004
- Multidisciplinary undergraduate and graduate students
  - Mainly engineering (aero, mech, ece, matsci, cse)
  - Open to any major with skills or interest
- Underclassmen encouraged to join

buckeye aerial robotics

- Work on FLYING robots
  - Design and construction
  - Embedded software development
  - R/C Control
  - Sensors, drivers
- Participate in annual International Aerial Robotics Competition

buckeye aerial robotics

- From Competition web site:

The 6th mission for the International Aerial Robotics Competition (IARC) will move the challenge to yet a higher level of autonomous aerial robotic behavior. The past two decades have seen a revolution in navigation technologies for operations in the open, but there is still much to be done in the area of indoor navigation. The goal is to create a small aerial robot capable of fully autonomous flight through a confined environment. In performing this task, the state-of-the-art in indoor navigation, vehicle design and integration, and flight control will be pushed to a higher level.

The 5th Mission of the IARC required collegiate teams to create fully autonomous flying robots capable of negotiating a rather sterile environment. The new 6th Mission picks up where the 5th Mission left off by demonstrating the fully autonomous aerial robotic behaviors necessary to more rapidly negotiate culturally-cluttered confined internal spaces of a structure once it has been penetrated by an air vehicle, and intelligently interact with physical items encountered.

buckeye aerial robotics

- When?
  - What works best for you?
  - Role dependent
- Where? Center for Automotive Research
  - Location / Issues
  - Possibility of change

buckeye aerial robotics

- It’s fun!
- Plus: **We have fun. We learn. We collaborate. Buckeye Aerial Robotics is more than going to a competition. It is about making friends, learning new technical knowledge, gaining experience working in teams, and ultimately developing skills that we can take out into the real world to create the next wave of innovation.**

buckeye aerial robotics

Questions?

davis 2352 @ buckeyemail

http://tarc.org.ohio-state.edu