FALL 2010 SNAPSHOT DAY (guidelines for 1st semester teams)
GAUSS JOHNSON LAB (Design Suite, Power Lab, and Engine Bay)
Friday, December 4th, 8:30-10:15

EXPECTATIONS FOR TEAM PERFORMANCE:
• Concept Design. Your team has developed an idea for your final design. You have identified and described the subsystems necessary to meet client needs/product specifications.
• Data and Prototypes. Your team has designed, built, and tested relevant prototypes and has assembled evidence (drawings, diagrams, calculations, prototypes and/or experiments) that your concept design will work. Show these.
• Project Learning. Team documentation and files explain the technology and scientific principles that support your concept design. Team members can effectively describe professional practices involved with your client relationship, design process, and project management.

PLANNING AHEAD:
• Send a personal invitation to your client as well as your technical advisor. Copy your lead instructor on this correspondence.
• Make sure your project webpage is up-to-date through concept development.
• To save time in creating your display, cut/paste from existing documentation.
• Have one team member show your display to your lead instructor for assessment.
• Poster/display should be fully assembled and situated by 8:20.

POSTERBOARD REQUIREMENTS:
(pin materials to posterboards available in GJ design suite)
• Give project title, sponsor, and team name.
• Outline your major areas for project research as well as your results.
  o Literature/Catalog Review
  o Prototyping
  o Modeling and/or Experimentation
  o Visualization (sketches, drawings, diagrams)
• Communicate your vision of final product architecture.
• Convincingly illustrate that the components of your design will work.
• List unresolved issues and your plan for attacking these.
• Supplement your poster with laptop items and physical prototypes.

SNAPSHOT DAY PROTOCOL:
• Professional dress and demeanor.
• Members do not have permission to skip regularly scheduled classes for Snapshot.
• One member should be at your assigned location, set up and ready to go, by 8:20.
• Show hardware/software/documentation proving workability of ALL subsystems.
• Take turns attending to your poster/display (15 minute shifts recommended).
• Browse other posters/displays asking clarifying questions and offering advice.
• Make a one-page logbook entry of lessons learned from the Snapshot Day.
SNAPSHOT DAY POSTER LOCATIONS:

ENGINE BAY (GJ 107)
Harley Engine Control Unit

DESIGN SUITE (GJ 108)
Hybrid Formula Car
Atomic Hoppers
Apparatus for mechanical grading of round timbers
Muffler for clean snowmobile
Clean snowmobile exhaust gas trap
Hot cell tooling to remove cadmium build up
Titan rain sensor

DESIGN SUITE MEETING AREA (GJ 108a)
Link layer FEC
Semiconductor Test Liquid Temperature Control System
Meeting data mining
Plug-in hybrid range extender
Thickness data for wing skin finishing instructions
PCEI power usage and redesign

POWER LAB (GJ 102)
Scooterizers
Flywheel Energy Storage
Modular tensegrity robotic arm
Next generation microprocessor development system
Barley de-huller for lab use
Visualization of fault location
Sea Jet DC micro grid