

# WS/FC Schools Go GREEN GO-KART COMPETITION May 20, 2009



## What:

The **Alternative Fuels –Environmental Club** at the Career Center, is hosting an *alternative fuels Go Green Go-Kart Competition* on May 20, 2009 as part of the annual Carnival Day. Karts will be powered by **electricity, ethanol, biodiesel, or WVO** (waste vegetable oil.) We would like to invite every high school in the WS/FC Schools system to field at least one team.



Massachusetts Institute of Technology's electric go-kart.

## Why:

More and more engineering schools in America, and Europe, are requiring their students to have hands-on, realistic application of the theoretical principles they are learning in the classroom. America's pre-eminent technical university, **M.I.T.** (1), as well as universities associated with the **S.A.E.** (2,3) (Society of Automotive Engineers), and **polytechnical universities** throughout Europe (4,5), are all now promoting the study of Alternative Fuels through university sponsored E-KART projects (6). In Europe, the university clubs compete with each other to build the most efficient go-karts vis-à-vis fuel mileage, horsepower-to-weight, etc., and then race their karts.

This trend is the genesis for the Career Center **Alternative Fuel Club's** entrée into the world of go-karting, and the development of several go-karts to run on alternative fuels. We invite you to be part of this forward thinking, team-building, environmentally friendly teaching opportunity.



Dartmouth University Go-Kart Team's SAE race kart.

## When:

May 20, 2009 at the Career Center. Team registration is due April 8th. Open to all high school affiliated teams in North Carolina.

## How:

Information packets are available by contacting the Career Center. **WE WILL HELP YOUR TEAM DESIGN and BUILD** their kart, if you want! We will have tech sessions open to all clubs and club sponsors.

Go to the Career Center website:

[http://www.wsfcs.k12.nc.us/education/school/school.php?sectionid=129&sc\\_id=1186056626](http://www.wsfcs.k12.nc.us/education/school/school.php?sectionid=129&sc_id=1186056626)

Look for the Go Green Go-Kart Competition tab. Click this to learn the details, and obtain contact information. Kai Ehnes and Bill Longyard are the club sponsors.



Technical universities throughout Europe compete in the E-Kart series of races using student designed and built green go-karts.

## Sources:

- (1) <http://web.mit.edu/first/kart/>
- (2) <http://www.fsae.utoronto.ca/2007/news.html>
- (3) <http://students.sae.org/competitions/formulaseries/fsae/reference/orgteam01.htm>
- (4) <http://www.e-kart.fr/2009>
- (5) [http://www.kartelec.com/f/en\\_uni.htm](http://www.kartelec.com/f/en_uni.htm)
- (6) <http://www.e-kart.fr/index.php?lang=en>

All photos are the properties of their respective schools.