

# CAN UNB STUDENTS BUILD THE ECO-FRIENDLY CAR OF THE FUTURE?

by Brent Burpee and Darren Lee

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number-crunching and metal banging, the Team needs folks whose interests include public-relations, marketing, accounting, merchandising, writing, entertainment, and all around FUNd-raisers. Maybe there is even somebody out there who can help with that stability thing?

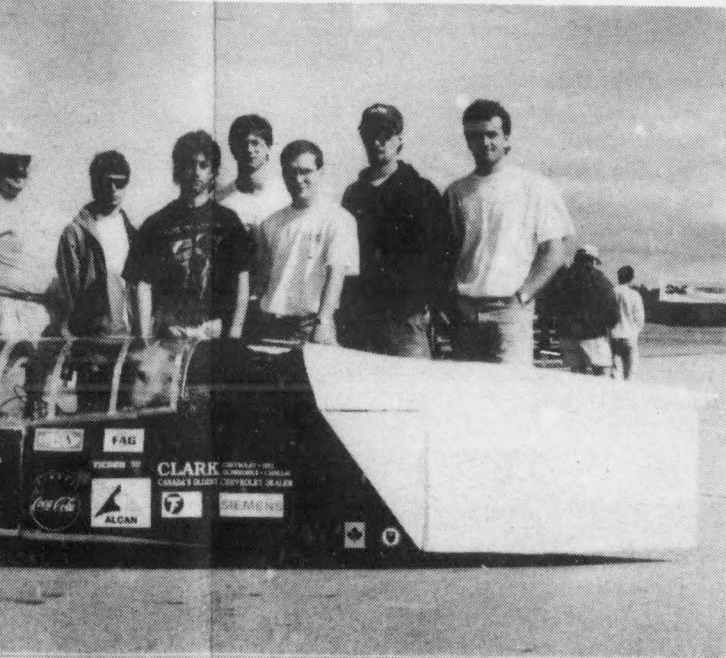
Why would you want to get involved with this crazed bunch of degenerates? How does disrupting the balance of power in the world through the reduction in the consumption of fossil fuels prevent all-out nuclear war? Just kidding. Actually, here's a 'real-world' project for a dose of reality in our academic lives, which makes for great conversation during a job inter-

view. Hell, you might even get a job. If this sounds remotely interesting, why not look into it and contact the UNB Supermileage Team for further details. One of our semi-fearless leaders, Jules Michaud, has offered his number for anybody who may be interested. Call him at 454-0934. If you happen to be a business owner reading this and have a few bucks lying around for some lucrative sponsorship deals, we would love to hear from you as well. Keep your eyes peeled

kiddles for more information on the never ending saga of the UNB Supermileage Team. Socials!!! Did we mention socials! We're gonna have lots of them too. Each of you can support the team through blind, zombie-like purchasing of one of our many more popular Supermileage merchandise items to surface in the near future.

Photos: Centre. The UNB team and their entry in the 1993 SAE Super mileage competition in Kalamazoo, Michigan. Top, left and bottom, various entries in the Super Mileage race and the Shell Fuel-A-Thon in Ontario.

Supermileage computer-like s, an actual place overall entries). to finish, re- mileage Team eage racing. anyone else he big boys. thetic story: ve need you! The UNB Supermileage Team needs people from all walks of life to work in many different and eviant fields. Along with the



## The Super Mileage Competition

A Better Environment



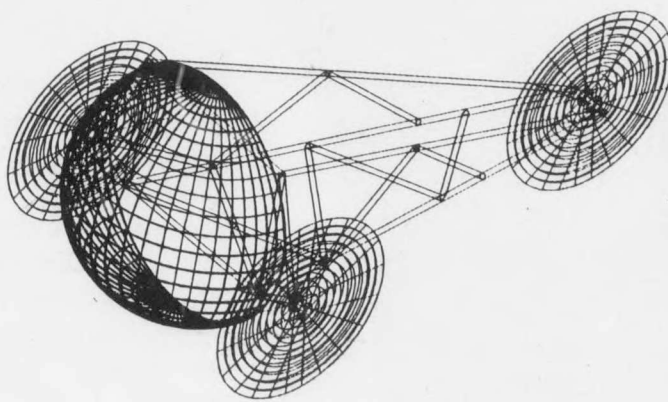
Through Better Engineering

In a time when environmental and energy concerns are in the forefront of most people's minds, the Super Mileage Competition provides a setting to challenge young people for solutions. This year's competition, the fourteenth annual, is sponsored by the Society of Automotive Engineers (SAE), Briggs and Stratton Corporation and Eaton Corporation. In June, 1994, teams from across North America will travel to Eaton Corporation's Proving Grounds in Marshall, Michigan, to try to break the world fuel economy record. All entries are designed and built by team members who, in general, are from a college or university. With a competition of this nature, the team members are able to apply some of the lessons taught to them throughout the school year. Ultimately, this furthers their education by providing experiences which would never happen in the classroom environment.

## The University of New Brunswick Team

With intentions of competing in the 1994 Super Mileage Competition, a team composed of students of all years from the faculties of Mechanical and Electrical Engineering has been formed. The team has been divided into groups which will specialize in specific areas of the design (eg. aerodynamics, electronic ignition, etc.). This team is supported by the Mechanical Engineering Department and will make use of the University's facilities which include a wind tunnel, engine analysis system, mainframe solid modelling and finite element analysis software. It is believed that this combination of human resources and technology, with support from our sponsors, will produce a very competitive entry.

## The Competition Entry



With seed sponsorship from the University of New Brunswick and the Natural Resources and Engineering Research Council, a preliminary design was made in the summer of 1990. It incorporates materials of high strength/weight ratios and borrows aerospace, automotive, bicycle, and other human powered vehical technologies. Work on the vehicle has continued this year as improvements are made in order to prepare a competitive entry for this year's competition. All vehicles must be powered by a four cycle gasoline engine which is supplied to each team by Briggs and Stratton Corporation. The final performance of the entry is dependant not only on the modifications made to the engine by each team but also on the minimization of the resistance that it must overcome to move the car around the track. With this in mind, the frame and the body have been optimized to carry the driver with the least amount of materials and weight. These factors are what make the designing of the system challenging and exciting.