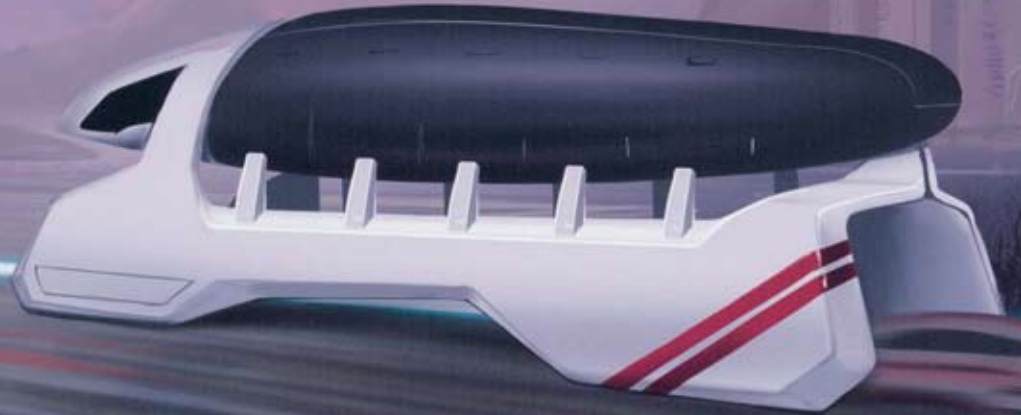


APOLLO TYRES presents the **Commercial Vehicle Design Series**

THE WINDCATCHER

The Windcatcher aims at minimizing the need for heavy trucks in cities. The truck is designed for long distances only, using a morphable shell, embedded with piezo-electric actuators helping it to provide considerable lift at high speeds, and thus enabling it to 'fly', protecting the environment and reducing fuel consumption. Smaller utility vehicles transfer the load from the Windcatcher for last mile distribution. This helps in keeping heavy trucks out of the city. A very visionary concept that corresponds to the partnership with other road users in the traffic system, especially trucks and passenger cars. It aims to be a high-tech solution for energy efficiency with a new aesthetic structure of the design, formal appealing with the idea of using a tunnel in the construction of the truck as a thoroughfare for passenger cars.



LONG HAUL FREIGHT CARRIER

The Windcatcher project stems from the need to reduce traffic of heavy vehicles within city limits. This long haul freight carrier eliminates the need to go into densely packed areas by using 'slave' trucks. This is accomplished by loading and unloading on the go and allowing traffic to pass through the vehicle, thus reducing traffic congestion and pollution, and at the same time being more efficient.



LIFT

The truck uses data such as windspeed and direction along with road conditions such as curvature and banking to adjust its shell to provide the least resistance and also to provide lift when appropriate, as in the case of straight roads with low wind speeds, saving on fuel and minimizing wear and tear.



DRAG

The Windcatcher uses its shell to provide drag when in need of braking, saving on wear and tear that would accrue as a result of stopping from high speeds.



VOLUME

When the truck is not at full capacity, the shell automatically forms around the empty space.

Designed by
Abhinandan Saini, College for Creative Studies, Detroit, USA

You can count on us to carry the loads of tomorrow.



APOLLO TYRES