

Aeromobile Inc.

Proudly Announces



The Aeromobile-Aeroduct System of Ground Transportation

This revolutionary ground transportation system solves the many serious problems associated with current wheel based transportation and allows for unlimited expansion of capacity. These are its characteristics:

- ♦ Capable of Complete Automation
- ♦ Elevated Above Ground Level
- ♦ Vehicles and Rights Of Way are Inexpensive
- ♦ Benign Environmental Impact
- ♦ Operable in Ice, Snow, Rain
- ♦ No Traffic Jams and Lost Productivity
- ♦ Few to No Accidents
- ♦ Accommodates Different Types and Sizes of Vehicles
- ♦ Very Low Maintenance
- ♦ Can Be Expanded as Needed

What is the Aeromobile-Aeroduct System?

The essentials of the Aeromobile-Aeroduct System are automated air cushion vehicles traveling in elevated rights of way. The conception and design of this system has been the crowning achievement of Dr. William Bertelsen and his associates. Each component of the system is explained separately as follows:



The A-17 vehicle on cushion, at the edge of the 200 foot test right of way (ROW).



The air cushion vehicle (ACV) is mechanically simple, inexpensive and reliable.

Air cushion vehicles

These are vehicles that travel on cushions of air. Originally and still frequently called hovercraft, they are usually thought of in an amphibious context. However, Dr. Bertelsen's many years of air cushion vehicle research shows they are also ideal for travel in guideways, since they create little impact on the right of way as they travel over it, and naturally like to travel within a groove. Low impact on a right of way is a tremendous advantage since it makes the infrastructure of transportation a low cost endeavor to build and maintain.

Rights of Way

To guide the vehicles in a desirable direction, and to allow maximum speed, the air cushion vehicles travel in half open or completely closed circular tubes. These rights of way are inexpensive to build and maintain since they receive little wear and tear from the vehicles traversing in them. They can be pre-manufactured in mass quantity, further reducing their cost. The use of guideways is a prerequisite for automated, accident free travel.

Automation

Vehicles in guideways can be automated, so that the passenger of the vehicle need do nothing more than specify a destination, with the help of an on board computer. A central computer system calculates the fastest path to the destination, choosing which rights of way the vehicle should follow. The locations of the numerous vehicles in the numerous rights of way are monitored to keep them a safe distance apart, and to reroute vehicles in the event of anticipated congestion.

Elevation

The guideways are elevated, eliminating potentially dangerous intersections and eliminating interference with people, animals and the rest of the environment at the ground level. Elevation allows for stacking rights of way vertically and horizontally, to accommodate any traffic.

What Are the Advantages of the Aeromobile-Aeroduct System?

With the current wheel based transportation system, there are the numerous problems, including pollution, paving of the environment, numerous accidents, seemingly unlovable traffic congestion, and limited expandability due to the expense, time and inconvenience. It is now a deterrent to progress in modern society.

The Aeromobile-Aeroduct System is designed to overcome the deficiencies of current transportation and make transportation a help to progress in all areas of society. Among its many advantages are the following:



The air cushion vehicle glides efficiently around curves and down straitaways.



The air cushion vehicle rests off cushion on the right of way. This would rarely be the case, since the vehicle normally rides on a cushion of air.

1. Vehicles can be completely automated. This brings about the ability to schedule vehicles in an orderly, efficient manner, provide feedback for passengers during the trip, give passengers freedom to do other things, eliminate inattention, fatigue and lack of competence as the cause of accidents, and empower those with disabilities to make full use of the transportation system.

2. Rights of Way can be elevated easily. This does away with intersections, and conflicts between vehicles and pedestrians, animals, etc. It also eliminates the need to pave valuable green space. Elevated rights of way can be stacked to accommodate increased demand.

3. The Air cushion vehicles and the Rights of Way are less expensive than comparable automobiles and roads. This makes the Aeromobile-Aeroduct System universally affordable.

Lower cost also makes the system very extensible because the stackable rights of way are not expensive, can be pre-manufactured, and are lightweight (compared to the cement used with existing elevated roads).

4. Air cushion support of vehicles render them operable in the most extreme conditions, including routes through the canopies of the hot, humid rain forests, and in the sub zero temperatures, and storms of the polar regions, in all-weather, despite heavy snow, sleet, fog, heavy rain, etc.

5. Lowest to zero pollution of the atmosphere, ultimately using nonpolluting hydrogen eliminating trolleys, third rail, or sliding contact, line power losses, and ozone producing electrical pickups.

What Are the Advantages of the Aeromobile-Aeroduct System?



Dr. Bertelsen thought of the idea of air cushion vehicles in guideways as early as the mid 1960s, as shown in this artist's illustration.

6. There will be few or no accidents in the Aeromobile-Aeroduct System, since there is immunity to weather conditions, there is elevation above pedestrians, there is automated control of vehicles (eliminating driver error as a cause of accidents) and there are no intersections.

7. Air cushion support provides the smoothest ride of any vehicle, and there will be no potholes, vehicle impact, and therefore, greatly reduced need for repairs.

The simplicity of vehicles also contributes to reduced need for repairs.

8. Automation and elevation together will increase efficiency of travel, since the vehicles won't need to stop at intersections or be caught in congestion. Vehicles will travel at a nearly constant speed in the rights of way.

9. Parking lots, another threat to green space, will be greatly reduced, since automated vehicles can return to their home space and be recalled when needed.

10. There will be many options for vehicles: one can own a vehicle, appointed as sparingly or as luxuriously as one wants, and one can use a vehicle like a taxi, for a one time trip. The same vehicle can be used for all transit, whether in a city or for travel into the country.

This photo of the prototype right of way (ROW) shows the simplicity and economy of the guideways for the Aeromobile-Aeroduct System. Plywood and sheet metal are the inexpensive components of the prototype.

They can be lightweight, easily elevated and quite inexpensive.



How Can the Aeromobile-Aeroduct System Be Implemented?

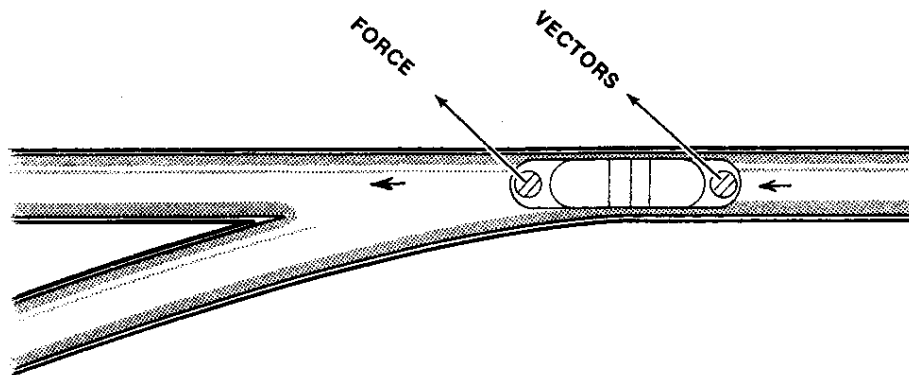
The ultimate use of the Aeromobile-Aeroduct System is to replace the millions of cars, trucks and trains, along with millions of miles of paved roads, with an efficient, comprehensive, economical, low polluting, safe system of transportation. There are a number of intermediate uses for the system, which can be implemented relatively rapidly and with reasonable expense. Here are some suggested possibilities:

- Level 1 A "horizontal elevator", connecting two or more stops. These stations could be office buildings, warehouses (for freight), facilities on a university, starting points in a theme park (connected to the parking lot). This basic system could be automated, or the vehicles could be piloted.

This configuration resembles mass transit in that vehicles stops at each stop, where passengers disembark and embark. The vehicles can range in size from four passenger units to ten plus passenger units.

- Level 2 A multi-station, multi branched elaboration of the horizontal elevator, having more stops, and a more complex configuration, such as corporate or academic campuses, or within a theme park.

Automation and elevation are desirable with the added complexity, but not necessary. The construction of the guideways would make use of "Y" intersections. to allow the vehicle to easily move to a different branch.



- Level 3 As personal rapid transit in an elaborate configuration (college campus, corporate campus, theme park). The vehicles would accommodate four to six passengers, would be automated, would be elevated so that the rights of way could be stacked.

Passengers would choose the exact destination, and would disembark only at that destination. At each station, the vehicle could split off from the express rights of way to come to rest at the station, without blocking other vehicles.

How Can the Aeromobile-Aeroduct System Be Implemented?

Level 4 As personal rapid transit and freight hauling within a subsection of an urban/suburban environment. Passengers would use the system to access their specific destinations, and goods could be transported directly with larger, special purpose vehicles.

This system would certainly involve automation and elevation, and onboard computers so passengers could easily choose their stop, and receive feedback while in progress.



The Man Behind the System

Dr. William Bertelsen pioneered air cushion vehicle (hovercraft) development in the late 1950s and has continued innovating to the present day. To give ACVs the maximum power and controllability, he invented the Gimbal Fan. His goal for forty years has to develop the best possible ACVs.

With the Aeromobile-Aeroduct System, Dr. Bertelsen has taken air cushion technology to its logical and ultimate summit.



His Amphibious Craft

Dr. Bertelsen has brought amphibian air cushion vehicles to new heights with his A-2000 series. These craft, powered by his innovative Gimbal Fan technology are precisely controllable. They are the realization of his goal since 1958 to create "flying automobiles".

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We are Aeromobile Inc., founded by Dr. Bertelsen to promote his unique approach to transportation.

Visit our Web site to learn more about us and see additional photos and video footage of our Aeromobile-Aeroduct System in action. If you want to discuss implementing the System, please give us a call.