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## DRIVER EDUCATION

The attached is from Smart Motorist and shows how one is taught one of the principles of defensive driving during Driver Education Class. As you see, there is a lot of information. Does this cause a person to want to leave the space when they are driving? It does not appear so.

## DRIVER TRAINING IN THE SIMULATOR

A person in the simulator will have a vehicle in front of him slam on the brakes on more than one occasion. If he does not leave enough space, he will either hit the vehicle in front of him or will be hit by the vehicle behind him that is following too close. After experiencing several of these situations, the student will **SEE and FEEL** the reason to leave the proper amount of space. After many instances of this slamming on the brakes, the student will develop the habit of leaving the proper amount of space in front of their vehicle.

ASSEMBLY TRANSPORTATION

DATE: 3/18/03 ROOM: 3143 EXHIBIT D 1-4

SUBMITTED BY: Ken Kruger

D 1 of 4

# Smart MOTORIST™

Waiting till the last second  
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## SUBJECT

**Maintain a Safe Following Distance (The 3 Second Rule) - Smart Motorist**

1SourceAutoWarranty

**Do You Tailgate Dangerously? - Dr. Driving**

## INFORMATION

**Maintain a Safe Following Distance (The 3 Second Rule) - Smart Motorist**

**Good Weather** - During daylight with good, dry roads and low traffic volume, you can ensure you're a safe distance from the car ahead of you by following the "three-second rule." The distance changes at different speeds. To determine the right following distance, first select a fixed object on the road ahead such as a sign, tree or overpass. When the vehicle ahead of you passes the object, slowly count "one one thousand, two one thousand, three one thousand." If you reach the object before completing the count, you're following too closely. Making sure there are three seconds between you and the car ahead gives you time and distance to respond to problems in the lane ahead of you.

**Inclement Weather, Heavy Traffic, or Night-Time Driving** - In heavy traffic, at night, or when weather conditions are not ideal (eg. light rain, light fog, light snow), double the three second rule to six seconds, for added safety.

**Poor Weather** - If the weather conditions are very poor, eg. heavy rain, heavy fog, or heavy snow, start by tripling the three second rule to nine seconds to determine a safe following distance.

**Tailgating** - Following a vehicle too closely is called "tailgating." Tailgating is an aggressive driving behaviour that is easily mistaken for road rage. Use the three-second rule to avoid tailgating. Most rear end collisions are caused by the vehicle in back following too closely. If someone is tailgating you, move to another lane or turn off the road as soon as possible and allow the tailgating vehicle to pass.

Three-Second Rule		Safe Interval Should Be >	3 seconds	6 seconds
Speed	Distance Traveled	For These Conditions >	Good	Marginal
25 m.p.h.	37 ft. per second		111 ft.	222 ft.
35 m.p.h.	52 ft. per second		166 ft.	312 ft.
45 m.p.h.	66 ft. per second		198 ft.	396 ft.
55 m.p.h.	81 ft. per second		243 ft.	486 ft.
65 m.p.h.	96 ft. per second		288 ft.	576 ft.
75 m.p.h.	111 ft. per second		333 ft.	666 ft.
			<b>Safe Following Distance in Feet</b>	

**Do You Tailgate Dangerously? - Dr Driving (aka Leon James Ph.D.)**

Those that drive family & economy cars tailgate less than those who drive sportscars and SUVs by a ratio of 2 to 1.

The results for the 10 states in this sample for which I had enough respondents to make statistical comparisons, show the worst five States with a mean of 21% dangerous tailgating: Colorado (25%), Georgia (20%), Pennsylvania (20%), Michigan (19%), Texas (19%). The lowest tailgating States are: Illinois (8%), New York (10%), Florida (14%), Ohio (15%), California (18%).

There are as you might expect, age differences as well as gender differences. Among young drivers, 19% admit to tailgating dangerously, which is about one in five. This is more than middle aged drivers (15%) and senior drivers (6%). This age pattern recurs in many aggressive driving behaviors: as we get older, we drive less aggressively. Women admit to as much tailgating as men (15%), in general, but once again there are significant influences attributable to the type of car they drive, as show in this table:

Tailgating	Type Of Vehicle		
	Family/Economy Cars	Sports Cars	SUVs
Sex Of Driver			
Male	13%	23%	18%
Female	13%	20%	25%

You can see that those drive the "soft" cars (family and economy) tailgate less than those who drive the "hard" cars (sports and SUV) with a ratio of two to one. This holds true for both men and women. However, with SUV drivers we see a reversal between the genders: more female SUV drivers tailgate dangerously, by their own admission, than male drivers of SUVs. Go to the rest of the article.



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## 450LE INTERACTIVE DRIVING SIMULATOR

### 450LE™

Doron 450LE is a fully interactive driving simulator designed to provide a dynamic training environment for a wide variety of agencies and organizations.

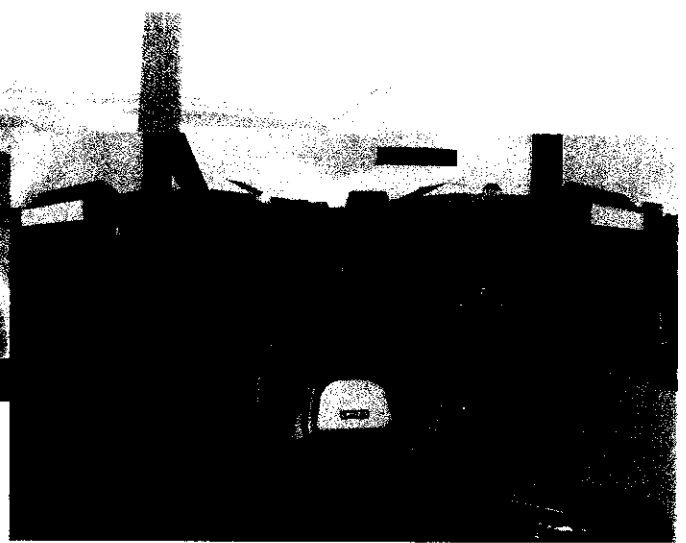
Each 450LE is a single operator unit that allows the driver to interact with computer generated vehicles in a realistic environment. Multiple 450LE units can be linked to create real-time scenarios where cooperation and teamwork are practiced in total safety.

#### ■ Most Realistic Driving Compartment

With a driving compartment based on a typical police cruiser, the 450LE sets a new standard for function and ergonomics in a law enforcement driving simulator. The 450LE's detailed driving "universe" and realistic feel are unsurpassed.

#### ■ State-of-the-Art 42" Plasma Flat-Screen Visual System

The 450LE features the latest technology in high resolution visual imaging. Three 42" plasma flat-screen displays surround the driver with an undistorted and uncompressed 190° field-of-



view. While providing unparalleled brightness and realism, the new flat-screen plasma technology also allows the 450LE to fit into limited training spaces.

#### ■ Most Advanced TrueSteer™ Steering System

Doron's TrueSteer digital servo steering system is unsurpassed for accurate response to road surface conditions and driver input. For mission-critical training, nothing else comes close.

#### ■ SkillTrak™ Driver Performance Monitor System

Enhance training using the SkillTrak reaction monitoring system. In comparison to nationally accepted standards, the SkillTrak feature allows the 450LE to safely and accurately measure driver reaction skills.

#### ■ True-to-Life Driving Environment

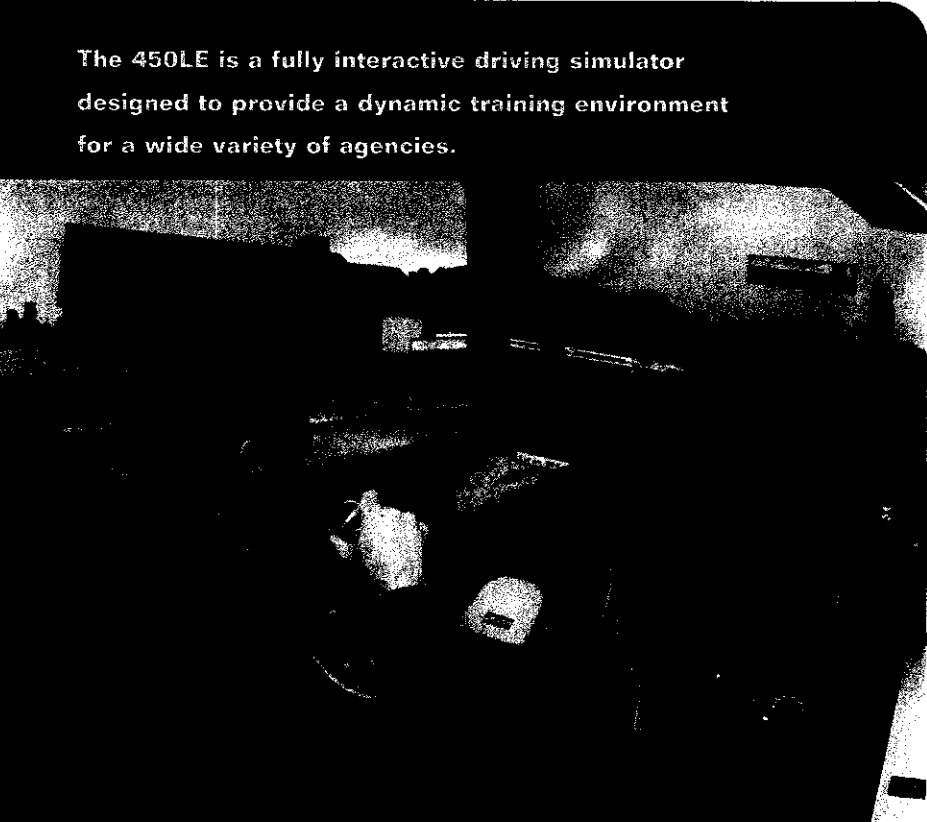
Doron's expanded driving "universe" includes a wide variety of rural and urban roadways and landscapes. Conditions may be selected quickly to include rain, fog, snow, dawn/dusk visibility including sun glare, and night driving. To handle adverse conditions, the 450LE simulator patrol vehicle is equipped with selectable ABS braking, simulating driving in the most challenging driving conditions.

#### ■ System Flexibility

450LE and AMOS II™ units can be linked. Driving universe and operating systems are fully compatible.

#### ■ System Software

- Windows NT™ Operating System
- Open architecture system format
- Multiple, selectable driver vehicle dynamics (police cruiser, sedans, ambulance, fire truck, transit bus and van)
- Selectable environmental conditions including dawn/dusk, sun glare, night, fog, rain, snow and reduced vehicle traction
- Doron 450LE Scenario Programmer Software (for easy-to-use production and customization of training scenarios)
- Enhanced driving "universe" including expanded rural, urban and highway areas
- Realistic multiple-vehicle interaction (pre-programmed or among linked units)



The 450LE is a fully interactive driving simulator designed to provide a dynamic training environment for a wide variety of agencies.