


# TORONTO POLICE SERVICE

 ***Enforcement  
Measures of Low-  
Speed Vehicles***



# TRAFFIC SERVICE

**CONSTABLE HUGH SMITH**

# S.P.A.C.E.



# Program

 **S.P.A.C.E.** (*Safety. Prevention. Awareness. Courtesy. Education.*)

-Aims to assist all road users in Toronto (Pedestrians, Cyclist and Motorist) to respect each other's need for safe travel.

**S.P.A.C.E.** : Developed to help inform all road users of co-operative space sharing, on highways, roadways, sidewalks and footpaths.

The goal is to have a more informed, skilled and safer road user.

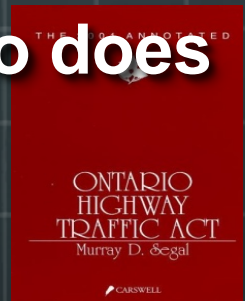
# Legal Issues and Traffic Laws

- Bicycles are either defined as vehicles, or given the rights and responsibilities of vehicle operators.
- “Rules of the road” offences apply to all vehicles.
- Licensing, parking and equipment offences apply to motor vehicles only, unless specifically stated.



# General Bicycle Laws

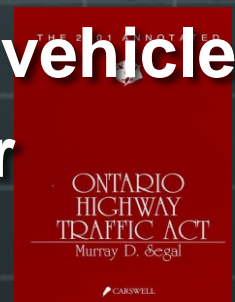
- The Act permits a police officer who finds a person contravening the Highway Traffic Act, or any municipal by-law, while operating a bicycle to stop that person and obtain identification.
- If a person is requested to stop, they must stop and identify themselves.
- A police officer may arrest a person who does not identify themselves.
- Section #218(1) H.T.A.





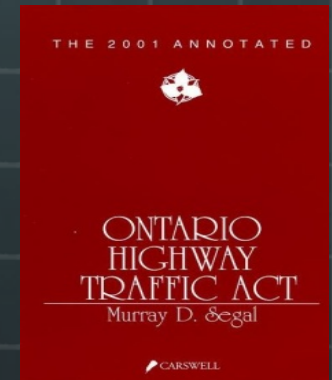
# Highway Traffic Act Definitions

- “Bicycle” includes a tricycle, a unicycle and a power-assisted bicycle but does not include a motor-assisted bicycle; (“Moped”)
- Driver: a person who drives a vehicle on the highway.
- Vehicle: includes a motor vehicle, trailer, traction engine, etc., BICYCLE, and any vehicle drawn or propelled by any kind of power including muscular power.



# Where should you be riding?

- Section 147 (1) says any vehicle travelling upon a roadway at less than the normal speed of traffic at that time and place shall, where practicable, be driven in the right-hand lane then available for traffic or as close as practicable to the right-hand curb or edge of the roadway.



# “As Practicable”

- 🌐 Most provinces include this statutory language.
- 🌐 Does not mean as far right as possible
- 🌐 “*Practicable*” means **an untested expectation of success.**
- 🌐 Interpret to mean as far right as is safe while in the proper lane.



# Laws Which Apply to Cyclists

- Stop signs and traffic control signals
- Posted regulatory signs
- Right of way
- Lane use
- Signaling
- Specific bicycle sections (helmets, equipment)
- Offences that specifies “driver” or “vehicle”

# Laws that Do Not Apply to Cyclists

- 🌐 **Licencing and registration**
- 🌐 **Impaired driving (applies to Power-assisted)**
- 🌐 **Unnecessary slow driving**
- 🌐 **Speeding (unless Careless ?)**
- 🌐 **Slow moving vehicle sign displayed**

**Note: Demerit points do not apply to your licence upon H.T.A. conviction; when operating a bicycle in Ontario**

# Riding on a Sidewalk

- 🌐 Pedestrians have right of way.
- 🌐 Normal traffic regulations do not apply; stop signs, direction of travel, etc.
- 🌐 Local by-laws may exempt children by age, or bicycles having a wheel measurement under a specific diameter.



# Required Equipment

- 🌐 **Braking system (rear or both).**
- 🌐 **Sounding device (Bell, Horn, Gong)**
- 🌐 **White or amber light to the front.**
- 🌐 **Red rear light or red reflector to the rear.**
- 🌐 **White reflective material on the forks (front).**
- 🌐 **Red reflective material on the rear (stays).**
- 🌐 **A cyclist can commit the offence of “operate unsafe vehicle”.**

# **Helmet Requirements**

- **NO person shall ride, on a highway, a bicycle unless they are wearing a helmet that complies with the regs. and has the chin-strap fastened.**
- **O. Reg. 610, says that a person 18 years or older is not required to comply with section 104 (2.1) of the Act.**
- **104 (2.2) says that a parent has a duty to ensure a child UNDER 16 YEARS OLD is using a helmet properly.**

# Power-assisted Bicycles

- A power-assisted bicycle is treated as a bicycle, not a “motor-assisted bicycle” (H.T.A.)
- Not allowed to attain a speed greater than 32 km/h.
- Driver and passengers minimum 16 years of age
- Riders must wear a bicycle or motorcycle helmet when operating on a highway







The scooter style of e-bikes have a distinctive look. These bikes are designed to be propelled through use of the electric motor alone and use a throttle to control the speed.



Conventional styled e-bikes look like (surprise) bicycles. Normal operation requires rider to pedal most of the time or cover pedals.

Both are allowed to travel anywhere bicycles are permitted, according to the Ontario government, but **municipalities can pass specific by-laws to ban or limit e-bikes from paths, trails or other spaces.**

# Electric Bicycles ("e-bikes")

## What is a power-assisted bicycle ("e-bike")?

For use in the Province of Ontario, a power-assisted bicycle, or e-bike, is a bicycle that:

Weight under **120 kg (includes the weight of bike and battery)**;

Has wheels with a diameter of at least 350 mm and width of at least 35 mm; and

Meets the federal definition of a power-assisted bicycle:

- has steering handlebars and is equipped with pedals,
- is designed to travel on not more than three wheels in contact with the ground,
- is **capable of being propelled by muscular power**,

**Has one or more electric motors that have, singly or in combination, the following characteristics:**

- it has a total continuous power output rating, measured at the shaft of each motor, of **500 W or less**,
- if it is engaged by the use of muscular power, power assistance immediately ceases when the muscular power ceases,
- if it is engaged by the use of an accelerator controller, power assistance immediately ceases when the brakes are applied, and
- **it is incapable of providing further assistance when the bicycle attains a speed of 32 km/h on level ground**,

Bears **a label that is permanently affixed by the manufacturer and appears in a conspicuous location stating**, in both official languages, that the vehicle is a power-assisted bicycle as defined federally, and has one of the following safety features,

- an enabling mechanism to turn the electric motor on and off that is separate from the accelerator controller and fitted in such a manner that it is operable by the driver, or
- a mechanism that prevents the motor from being engaged before the bicycle attains 3 km/hr.

# Safety and Equipment Requirements for E-Bikes

To operate an e-bike on Ontario's public roads, the following vehicle safety and operator requirements are in place:

E-bike must not weigh more than **120 kg** (includes the weight of bike and battery) and the maximum braking distance is nine metres.

**All operators and passengers must be at least 16 years of age.**

All operators and passengers must wear an approved bicycle or motorcycle helmets.

**All electrical terminals must be completely covered.**









**Two independent braking systems consistent with requirements for motorcycles and motor-assisted bicycles (mopeds) that applies force to each wheel** and is capable of bringing the e-bike, while being operated at a speed of 30 km/h, to a full stop within 9 metres from the point at which the brakes were applied.

The minimum wheel width or diameter shall not be less than 35mm/350mm.

**No modifications to the motor to allow it to exceed a power output greater than 500W and a speed greater than 32 km/h.**

The **battery and motor must be securely fastened to the vehicle** to prevent them from moving while the e-bike is operating.



New Alternative Vehicles Approved for Use on Ontario Roads									Other New Vehicles Not Permitted or Restricted
	Common Name	HTA Classification	Motor Vehicle		Pedal Equipped	Dimensions/Equipment And Performance	Plates Insurance	Operator Requirements	
			HTA	CC					
	E-Bikes	Power-Assisted Bicycle	No	Yes	Yes	<ul style="list-style-type: none"><li>May be 2 or 3 wheeled</li><li>Bicycle/ scooter format, handlebar steering</li><li>Max. weight - 120 kg</li><li>Independent front /rear wheel braking</li><li>Minimums- wheel size, 350 mm. tire width, 35 mm</li><li>Max. speed 32 km/h</li></ul> <p>Note: Must have permanent label from manufacturer indicating it conforms to the federal definition of a power-assisted bicycle.</p>	Not Required	<ul style="list-style-type: none"><li>Minimum Age-16 yrs</li><li>Driver's Licence-No</li><li>Helmet- Bicycle or Motorcycle</li></ul>	 <div>Pocket Bikes Not Permitted</div>
	Moped	Motor-Assisted Bicycle	Yes	Yes	Yes	<ul style="list-style-type: none"><li>Gas powered, max. 50 cc</li><li>Direct handlebar steering</li><li>Max. vehicle weight - 55 kg</li><li>Pedals must be operable at all times</li><li>Does not attain a speed greater than 50 km/h within 2 km from start</li></ul>	Registration, Insurance and moped plate (red/whi) Required 	<ul style="list-style-type: none"><li>Minimum Age-16 yrs</li><li>Driver's Licence-Yes (Restricted M1, M2 or M with L endorsement or Full M1, M2 or M)</li><li>Helmet-Approved motorcycle helmet</li></ul>	<div>Motorized or Electric Scooters (Go-peds) Not Permitted</div> 
	Limited-Speed Motorcycle (LSM)	Motorcycle	Yes	Yes	No	<ul style="list-style-type: none"><li>Minimums - seat height 650 mm, wheelbase 1016 mm, wheel rims 250 mm</li><li>Electric or gas powered, max. 50 cc</li><li>Maximum speed of 70 km/h</li><li>Automatic transmission</li><li>"Step through" scooter design, handlebar steering</li></ul> <p>Note: Must have permanent label from manufacturer indicating it conforms to the federal definition of an LSM if built after 01/Sep/88.</p>	Registration, Insurance and LSM plate (gm/whi) Required 	<ul style="list-style-type: none"><li>Minimum Age-16 yrs</li><li>Driver's Licence-Yes (Restricted M1, M2 or M with L endorsement or Full M1, M2 or M)</li><li>Helmet-Approved motorcycle helmet</li></ul>	<div>Segways (Restricted use only)</div>  <p>Approved only for persons over 14 with mobility disability, mail carriers and police officers. Note: Helmets required if under 18, treat as a pedestrian on sidewalks, bicycle along roadway.</p>

## **20. Why are LSM and moped operators required to be licensed but operators of scooter-style e-bikes are not?**

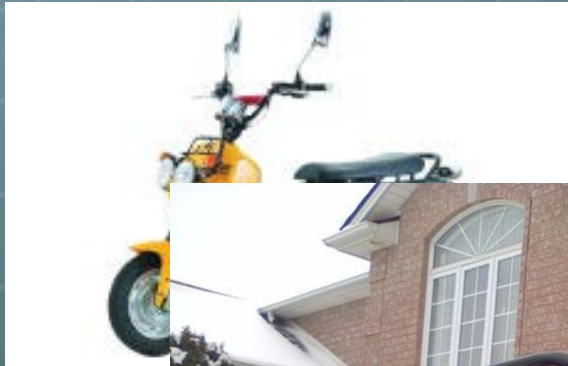
For the purposes of the H.T.A., e-bikes are considered bicycles and therefore do not require operators to be licensed.

Furthermore, the maximum speed of a limited-speed **motorcycle (LSM) is 70 km/h and for a moped is 50 km/h** compared to an e-bike, which can reach a maximum speed of only 32 km/h.

**Primarily because of the higher level of speed that can be reached**, the ministry is requiring operators of limited-speed motorcycles and mopeds to participate in the provincial graduated licensing system in order to ensure road safety for Ontarians.











Date Listed	19-Apr-13
Price	<b>\$1,300.00</b>
Address	Windsor, ON, Canada <a href="#">View map</a>

this bike is perfect for high school student it stands out from other electric bikes its cooler and faster and very comfortable and you can also ride with a friend , NO insurance , NO gaz , NO driving licence just have to be 16 years old , my price is 1,300 but you can give me the best offer you got !!  
the bike is in great condition the only major problem are the pedals and the signal light in the back it works but the glass broke but it can be fixed ,  
I am giving with the bike:  
-100\$ helmet for 50 thats why its 1,750  
12 V tire compressor  
Rain cape – poncho type with hood and window for head light  
Rain cover for the bike  
Tubeless tire repair kit  
selling it because i am getting a car and i wont really need it but the tires are very big and the bike is powerful you can have alot of fun with it , any electric bike goes up to 42 km/h this one on a full charge can go up to 55 !! and the battery is in mint and perfect condition , if you are interested you can contact me i have tons of more info i can give.  
if you are really interested you can try it out !!

The MOTORINO XPd is a unique scooter released this year (mid Feb 2011). Having a body and frame styled after the Honda Ruckus, this rugged scooter does away with most of the body panels allowing the art of the frame to come through. This no nonsense design is less vulnerable to damage making it suitable as an everyday runabout or rental bike.

comes with :  
Built in remote vibration sensitive alarm with two remote controls  
Security:  
Built-in motorcycle remote alarm with two remote controls  
Handlebar locking  
Helmet lock.

THIS VEHICLE IS A POWER  
ASSISTED BICYCLE AND  
MEETS ALL THE  
REQUIREMENTS UNDER  
SECTION 2(1) OF THE  
CANADA MOTOR VEHICLE  
SAFETY REGULATIONS.

CE VÉHICULE EST UNE BICYCLETTE  
ASSISTÉE ET RECONTRE LA NORME 2(1)  
DU RÈGLEMENT SUR LA SÉCURITÉ  
DES VÉHICULES AUTOMOBILES DU CANADA.





A restricted class M licence for limited-speed motorcycle (LSM) and moped drivers, was introduced on November 28, 2005.



A limited-speed motorcycle is:

- a. a motorcycle that:
  1. can **attain a rate of speed of more than 32 km/hr on level ground** within a distance of 1.6 kilometres from a standing start;
  2. has a **maximum attainable speed of 70 km/h** or less;
  3. has steering handlebars that are completely constrained from rotating in relation to the axle of only one wheel in contact with the ground;
  4. has a minimum seat height, when the vehicle is unladen, of 650 millimetres;
  5. has a minimum wheel rim diameter of 250 millimetres and a minimum wheelbase of 1016 millimetres;
  6. has a **maximum engine displacement of 50 cubic centimetres** or less; or,
- b. if the motorcycle was manufactured on, or after, September 1, 1988, it must have affixed a **compliance label required** under the Federal Motor Vehicle Safety Act (Canada) that identifies the motor vehicle as a limited-speed motorcycle.

# High Speed Mobility Scooter



## 3 Wheel High-Power Mobility Scooter

This E-Bike runs on 4-20Amp batteries, and comes with a wheelie bar for the not so old drivers. At full power the Trisca can get up to **25+ KPH**, easily the fastest mobility scooter on the market! And for those faint at heart a speed control unit can be used.



Personal Mobility Devices (Motorized Wheelchairs and Medical Scooters)

**Do not require registration, licence plates, driver's licence or vehicle insurance,** and are treated in the same way as pedestrians.

**Note:** MTO does not dictate that "mobility scooters . . . must use the sidewalk where available". **MTO advises** that "A sidewalk should be the first choice for someone using a wheelchair or medical scooter."







Toronto City Council recommends that Toronto's sidewalk cycling bylaw shall stipulate "no person age 14 and older may ride a bicycle on a sidewalk".  
The fine - \$60.

As the City of Toronto continues to install cycling infrastructure, messaging to remind cyclists to please walk their wheels in pedestrian areas is also being promoted by the City.

If a cyclist hits a pedestrian, the injuries can be severe. Seniors are especially vulnerable and can fall merely by being startled.

The City's 'walk your wheels' program targets areas where sidewalk cycling may cause collisions.





## Bylaw enforcement - electric bicycles - e-bikes - snowmobiles - in City of Toronto Parks

Electric bicycles are classified as "motorized recreational vehicles" under Toronto Municipal Code, Chapter 608. Therefore, they are NOT permitted on bike paths or foot paths in City of Toronto Parks.



They are only permitted in parks that allow vehicular traffic, excluding service roads and areas posted prohibiting public vehicular access.

Motorized vehicles (including e-bikes and snowmobiles) may not be used on park multi-use paths. If a motorized vehicle is used on a park path, the rider/driver may be fined by a bylaw enforcement officer. The Waterfront Multi-Use path, Don Valley & Humber Multi-use paths, are all considered parklands. The new railpath & Hydro corridor trails are considered linear parks.

[Toronto Municipal Code - Chapter 608 - Parks](#) (Toronto Municipal Code Chapter to prohibit and regulate activities in City parks)(see definition of "Motorized Recreational Vehicle" at beginning of bylaw, also 608-30)

If you wish to file a complaint about an e-bike in a City of Toronto multi-use path, please contact Municipal Licensing & Standards Waste & Parks Bylaw Enforcement.



TORONTO MUNICIPAL CODE  
CHAPTER 608. PARKS

Operate (vehicle/motorized recreational vehicle/bicycle/personally powered device) in excess of 20 kilometres per hour in park	608–32	\$ 100
(Ride/Drive/Possess/Control) motorized recreational vehicle in non-designated area of park	608–30	\$ 250

ARTICLE I

**Definitions**

**§ 608-1. Definitions.**

As used in this chapter, the following terms shall have the meanings indicated:

ACT - The *Highway Traffic Act*.

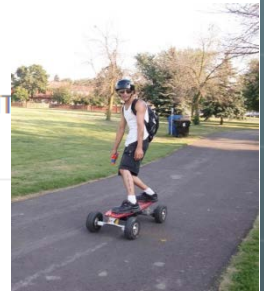
ADVERTISING DEVICE - A temporary notice of any kind, including but not limited to a notice, sign, advertisement, bill, handbill, leaflet, flyer or placard.

BICYCLE - Includes a bicycle, tricycle, unicycle, and a power-assisted bicycle which weighs less than 40 kilograms and requires pedalling for propulsion ("pedelec"), or other similar vehicle, but does not include any vehicle or bicycle capable of being propelled or driven solely by any power other than muscular power.<sup>2</sup> [Amended 2014-02-20 by By-law No. 124-2014]

COMMERCIAL DOG WALKER - A person in control of between four and six dogs while in a park. [Added 2007-07-19 by By-law No. 790-2007<sup>3</sup>]

COMMERCIAL DOG WALKER PERMIT - A permit authorizing a commercial dog walker to be in control of between four and six dogs while in a park. [Added 2007-07-19 by By-law No. 790-2007<sup>4</sup>]

DESIGNATED AREA - An area defined or constructed for a specific use that may include posted conditions.



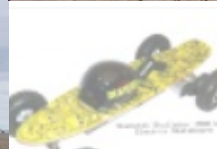
HOME / ELECTRIC SKATEBOARDS

## 1500W Skullator Electric Skateboard

**\$1,699**



- Deck Style: Canadian Maple Wood customized Airbrushed Skull Design
- Motor Power: 1500 [watt](#) (High Torque)
- Maximum Speed: ≤ 50km/hr (31 mph)
- Maximum Load Capacity: 150 kg (330 Lbs)
- Charging Time: 3-5 hours
- Wheel Style: All Terrain Super-grip Air Tire
- Battery Input Voltage: 90-250v
- Battery Capacity: Lithium 20 Amp (Extended Life For Longer Use)
- Transmission: Belt Drive (Brushless motor, Aircraft Grade)
- Reverse Technology







### Disclaimer:

Operating a **motorized/power-assisted bicycle or bicycle engine kit** involves some risk of serious bodily injury. Buyer accepts and assumes all responsibility for any and all vehicle operation that may lead to personal injury, economic loss, social distress, other losses, costs and damages. This bicycle engine kit is not intended for use by persons under the age of 16.

A couple of Thunder Bay Police officers have told me to make everyone aware that these bicycles are for "off-road use only" in Thunder Bay, and likely Ontario. The Thunder Bay Police will treat them as illegal if seen on the streets of Thunder Bay.

**You ride at your own risk!**





**Traffic fatality #26/2012,  
Rockcliffe Boulevard at Alliance Avenue,  
Police request assistance identifying victim,  
Photograph released of victim's bicycle  
(motor-assisted gas-powered bicycle)**





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# Characteristics of E-Bikes

## Research/Data

Conventional Style  
(i.e. Active Cycling) E-Bike



Scooter Style  
(i.e. Passive Cycling) E-Bike



Weight: 20 kg – 35 kg	Weight: 36 kg - >120 kg
Max Speed: 32 km/h	Max Speed: 32 km/h
Tire Diameter: > 20"	Tire Diameter: < 20"
Handling: Similar to bicycle	Handling: Similar to LSM
Width: Handlebar-to-handlebar	Width: Pedal-to-pedal (> than handlebar-to-handlebar)
Cost: \$400 - \$2,000	Cost: \$700 - \$2,800





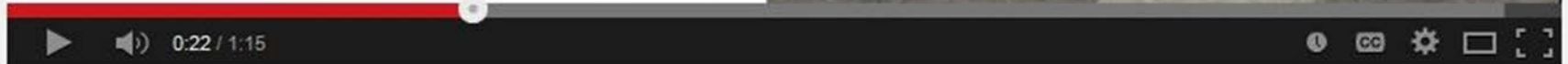
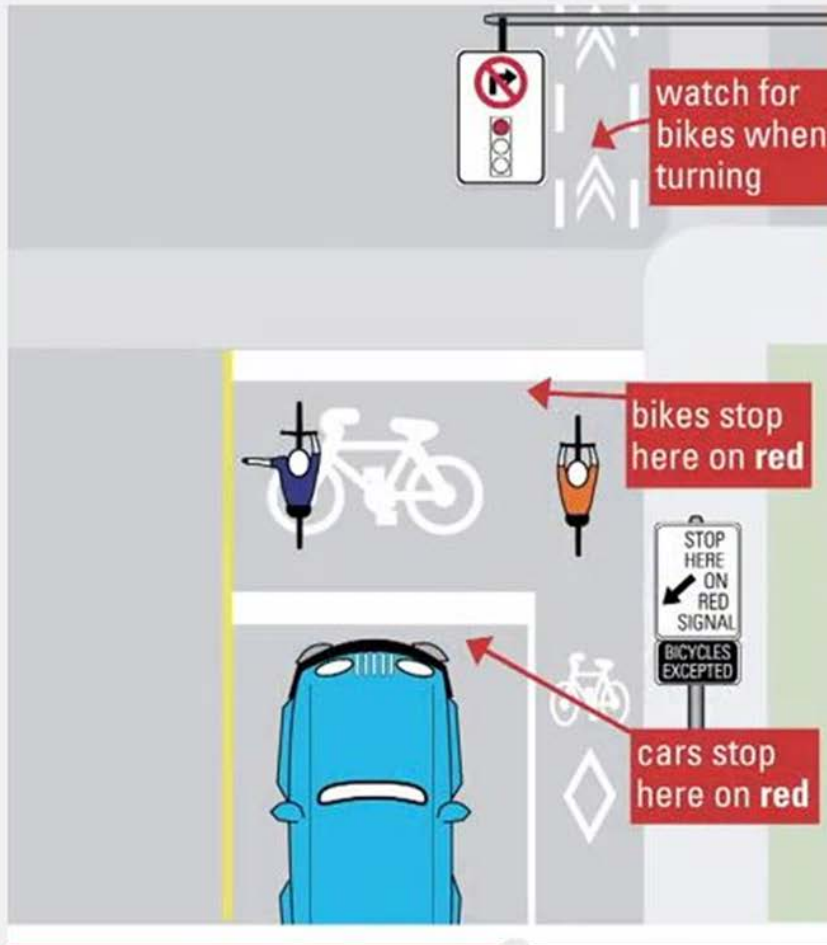
Laser radar – collection of speed data on 1,049 individuals  
Eastbound on College Street; prior to Spadina Avenue.  
7:30 AM and 9:30 AM., September 19, 2012.  
1040 were cycling  
5 people were driving e-bikes  
3 were longboarding  
and one very committed rollerblader was blading  
(2- Motorcycle Riders)





Google





## Bike Boxes



thecityoftoronto

[Subscribe](#) 1,214

4,470

# Power-assisted Bicycles Myths?

## Impaired Driving

If a police officer stopped someone who was drunk while driving an e-bike, could they be charged?

Drinking alcohol and driving while operating a motor vehicle is a Criminal Code offence and charges are laid under the Criminal Code of Canada.

**Under the Criminal Code, the definition of a "motor vehicle" would include an e-bike**, and anyone operating an e-bike intoxicated could be charged for impaired driving.

If convicted, the offender would be subject to the Criminal Code penalties, including a fine or jail time, and a driving prohibition.

# Power-assisted Bicycles Myths?

## Impaired Driving-Provincial

Under the Highway Traffic Act (HTA), an e-bike is not classified as a motor vehicle, so penalties for impaired driving under the Highway Traffic Act would not apply.

### **Warn-range “suspension” would not apply**

Drivers who register a blood-alcohol concentration in the “warn range” of .05 to .08 pose an immediate danger to themselves and other road users. If caught driving in the warn range, you will receive an immediate driver’s licence suspension at the roadside:

- Three days for a first occurrence



## Toronto's first Bike to School Day encourages a new generation of cyclists



Greenwood students (photo by Kristin Schwartz)

Marie is a newcomer student from Senegal at Greenwood Secondary School in Toronto's east end. She learned to ride a bike this spring through a girls' gym unit created by her dedicated teacher Sally Bliss using bikes borrowed from our **Bike to School Project**.

On May 26, Marie and other Greenwood students and staff rode to Nathan Phillips Square with 2,000 other cyclists to celebrate the first ever **Bike to School Day** coinciding with Bike to Work Day, joined by groups from Central Technical School, Central Commerce Collegiate and Jarvis Collegiate.

Many other schools across Toronto marked the day with their own events, and four won a free bike rack from TDSB EcoSchools for their high rate of student participation: Allenby Junior Public School, ALPHA Alternative Schools, Agnes Macphail Public Schools and Earl Haig Junior Public School. This year's Bike to School Day was a fantastic launch to a new annual tradition.

kids being active and cycling.. until it comes to making space for them to do so.

# S.P.A.C.E.



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The goal is to have a more informed, skilled and safer road user.

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