



Spinofff

ROTARY CLUB OF WEST OTTAWA

Graeme Fraser, President

July 26, 2022 Editor: Don Butler

PROGRAM: Tim Burrows, EV Society: Should your next car be electric?

Video <https://youtu.be/XhtTJoKfigM>

We Start

After the acknowledgement that we meet on traditional Anishinabe Algonquin land, **President Graeme Fraser** started the meeting on a light-hearted note with some EV puns -e.g. having a “current licence” and “no outlet” in a one-way street etc. After a “please stop” or two we got on with a video of an orchestral O Canada and some very fine aerial photography.

Visitors: Dennis Dorgan, cousin of **Ken Murray** and a retired school teacher and principal

- Richard Yearwood, a guest and brother-in-law of **Mike Traub**
- Joe Redhead
- Mustapha Noury, Rotarian from Egypt
- Vijay **Dube**, husband of **Giri**

Presentation

Lynne Fraser introduced our speaker as a graduate of U of T, retired VP of sales at 40 Creek Distillery which he had helped take from its founding in 1992 to a producer of one of the top Canadian whiskies and now a leading figure of the Electric Vehicle Society (EVS). He has been driving electric cars for eight years and sees the automotive world at a tipping point between internal combustion (IC) and electric.

Tim took the mic and told us there were three basic reasons why we would change to electric vehicles (EVs) in the near future.

Technical: the icy engine has 200 moving parts. 75% of the gas energy is lost to thermal loss and friction. With EVs 90% of the energy moves the vehicle.

Government action: will promote the end of IC vehicles for reasons of pollution and safety. 25% of CO production is from light duty trucks and passenger vehicles.

Costs: at current prices driving an EV for three years will recover the premium paid over the price of IC vehicles. EV costs are declining quickly. Battery costs are down 90% in the last eight years. In two years EV prices will equal ICs. Maintenance costs are much less.

Charging: householders will probably have a level one charging station which will recharge in 45 hours usually while you are sleeping. Usually there are charging stations nearby with level two or level three capacity. At add a cottage where you would stay for a couple of days you can recharge from normal household current. Fast charge gives you 80% in 20 minutes at a service station. Gasoline fill up takes 10 minutes. Fuel cost per kilometer is equivalent to gasoline at \$.30 per litre.

Battery life is 400 to 500,000 km and probably outlasts the car.

Maintenance is much simpler. Brakes last longer because of regenerative braking. The electric motor requires little maintenance.

For long trips Petro Canada and Canadian tire of charging stations across Canada. Websites tell you where other charging stations are. Tesla is building its own network and remembers where non-tesla charging stations are.

Tesla vehicles are connect to the Internet and receive regular updates so the car is always getting better. Since 2016 Tesla vehicles are prepared to receive self driving updates.

Safety: study of 40,000 fatalities found 95% were due to human error. Insurance companies will take note of this in calculating premiums.

Driving an EV is fun. The torque is better than an IC. Even if driving an EV were not an important contributor to reducing global warming Tim would still be telling us how much fun it is how economical it is generally better to drive an EV than an IC vehickl

For more information participate in the monthly webinars of the Electric Vehicle Society.

<https://evsociety.ca/canada-talks-electric-cars/>

Mike Traub thanked Tim for doing the presentation and doing it so well. Our club would make a presentation to End Polio to mark Tim's talk.

Q&A

To Ginette Thomas on the advisability of a hybrid in a cold climate like Canada's. That used to be a consideration but with modern battery technology hybrid sales have stagnated well full battery sales are soaring also in other cooler climates like Norway and Finland. In remote locations with few nearby charging stations a hybrid could still make sense. If you get a hybrid make sure it can be plugged in otherwise you are simply using gas in your own gasoline to charge the car.

To Ken Murray on lithium: deposits were being developed in the Ring of Fire.

To Roger Wilson: the model X (Tesla SUV) had a 5000 lb capacity for towing but that wind resistance and cold reduced the range. When battery developers give a range of 1000 km we will not care if cold and other factors reduce this by half. The EVS is awaiting the report by an Airstream dealer who is trying out a Tesla for towing. The society hopes to have the dealer speak in one of their upcoming Canada Talks Electric Cars webinars.

To Don Butler we could produce the electrical energy needed for this new consuming sector of our economy but the grid would need upgrading.

To **Hadi Mortada** Tim repeated that maintenance of an EV is simpler and cheaper.
To **John Kersley** on the cost of chargers. Charging should be by the amount of energy obtained and not by the duration the charger was plugged in.

Mike Traub and President Graeme thanked Tim again.

Announcement

Ron Doll reminded us about the first therapy session August 13 at the Fletcher Gardens followed by lunch at the Umbrella. Andrea Prasmowski, Certified Forest Therapist, will be our guide. The minimum number is 10 and the maximum is 15 participants. Email Ron by Aug 3

We end

President Graeme reminded us that the next meeting will be hybrid at the CoBrie Restaurant at the Collingwood shopping centre and on line. Those coming out should get there earlier to order their food before the actual meeting starts. Remember that the meeting Aug 16. 3rd Tuesday of August will be a hybrid evening dinner at CoBrie, time to be advised. He told us that there would be a change to the scheduled presentation and to stay tuned for details. (SEE BELOW)
He then adjourned with his usual friendly suggestions.

Cash Calendar winners

<http://www.ottawarotarycalendar.com/2022-winners.html>

Get ready for meeting Aug 2. You'll have a little job

Make a presentation - 5 mins max- on your classification, why you joined our Club and what you got from and gave to Rotary.

See Larry Chop email "Let's get reacquainted" this morning (Monday Aug 1).

2 August 2022 12:00 for 12:30

Hybrid

On line and also in-person at CoBrie Restaurant, Carlingwood Centre

Program: by table or breakout room, mini Classification Talks

Larry Chop, moderator:

Spinoff: **TBA**

Zoom at <https://us02web.zoom.us/j/81365346181>

See **President Graeme** email for log-in details

