

HRC NEWS

EVENTS



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09 256 0013

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Circulation 6500

March 2017

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Another two great HRC meetings happening in the next few weeks

First up is the annual Legends of Speed meeting featuring Formula Libre, AES/Trade Zone, Arrows, Historic Muscle Cars/Historic Saloon Cars, BMW E30, BMW 2 Ltr, Historic Sports Sedans, Historic Formula Ford and Classic Trial at Hampton Downs 25th,26th. As can be seen reading John Tomlin's Formula Libre newsletter, Libre racing has certainly seen an increase in numbers this year. It is great to get some real race cars (single seaters) back on the grids. The Formula Libre field will be made up of F5000, Formula Atlantics and Racing Sports cars. Mix in Historic Muscle /Saloon Cars and Historic Sports sedans and we have an entertaining weekend. The final race for each class will be for the legend shield picture below To enter online www.motorsportentry.com and for spectator tickets www.hrcevents.co.nz



Two weeks later on 8th 9th April, HRC is at the Bruce McLaren Motor Sport Park in Taupo for the Barry Algie Memorial meeting. As can be expected, there will be a large entry of Historic Sports Sedans. Up for Grabs will be the Barry Algie Cup . This cup was donated by Ivan Bevins and will presented to the winner by members of the Algie family. Other classes racing are 2K Cup, SuperLap, Sports Cars, Libre and the Vintage Hooters Series. HRC thanks Taupo Car Club for their input into this meeting.



To enter online www.motorsportentry.com and for spectator tickets www.hrcevents.co.nz

Other events that are the HRC Season Finale at Hampton Downs on 6th and 7th May. HRC has been trying for the International track at Hampton Downs but at this stage it looks as if this meeting will be on the National track.

Entries will be up soon for the Eneos North Island Endurance Championship. The dates are:

Taupo 20th May

Hampton 24th June

Pukekohe 22nd July

HRC will hold another Twilight Practice on Monday 3rd April, these sessions are a great opportunity to get in some practice before the Barry Algie Meeting at Taupo. The evenings are also an excellent opportunity to get involved with motorsport without the pressure of a race day. Drivers get 120 minutes of track time for \$100 plus the HD H&S Fee (Total \$128.75) which has to be good value.

Any drivers that have been getting a hard time from your "green" friends should read the article below, turns out our racing is saving the planet!

Women in Motorsport



We ran our second Women in Motorsport Event on the Club Circuit at Hampton Downs earlier this month. An excellent evening entertainment and several new faces....



Word of the Women in Motorsport initiatives that have done by the New Zealand team have spread around the world. An email was received from Iceland seeking advice on how to promote Women in Motorsport in Iceland. HRC has found there is a real need for practice days that are structured to appeal to women. Debra Day and Wendy Metcalfe along with their team of women coaches have certainly made these Women in Motorsport a success and we can expect more women competitors next year. There are also a number of volunteers that have been attracted to the days and have been encouraged to be volunteers to understand motor racing before making the step onto to the race track.

If you are interested in further information, the contacts are Deborah Day deb@themotorsportclub.com 0274875079, Wendy Metcalfe wendy@mra.net.nz 021423234 or contact Chris 0274 827542 chris@hrcevents.co.nz

The next HRC women in Motorsport training session will be at Taupo on Friday the 7th April. Please contact Tim at the HRC Office for more details.

INTRODUCTION DAYS

Future Days planned for an introduction into Motorsport for women and men are being planned for August. These days will be on the Hampton Downs Club track and will be run under a Clubsport permit. The days will consist of dual car sprints and races for a very limited number of cars. The race grids will consist of drivers with a similar level of ability. More details next month.

Motor Sport New Zealand Incorporated

In the last HRC newsletter it was reported that MSNZ had reached a settlement with the Super Tourer Group without the matter going to court. As was pointed out in the newsletter, HRC would endeavour to find out the amount paid out and how much was covered by insurance. Below is the exchange of emails in the last month between HRC and MSNZ. HRC members have expressed concerns if the settlement exceeded the insurance cover, the effect this would have on entry fees and licence fees. HRC Inc and a number of other clubs would like a full disclosure of the facts well before the next MSNZ conference in May, so the Clubs are prepared for any discussion that takes place on this matter during the conference.

To Brian Budd

Hi Brian

I have a number of members asking for more detail about the settlement referred to in the email below.

HRC Inc would like to know what was the total amount paid out and what was the amount covered by insurance

Regards

From Wayne Christie

Dear Chris

I acknowledge receipt of your request for further information in relation to the V8STs litigation and the settlement of that litigation.

MSNZ had anticipated providing further information to members at the AGM. However, since we have received a small number of similar requests raising similar issues, we will endeavour to respond to those inquiries together, as soon as we reasonably can.

Some parties had requested a response within a very short time frame, in advance of member club's meetings in March. Depending on the precise dates of those meetings, that will not be achievable, but we hope to be in a position to respond to these queries later this month.

Kind regards

WAYNE CHRISTIE *President, MotorSport New Zealand*

M. 027 694 6456 | **B.** 03 371 0490 | **F.** 03 366 8405

E. president@motorsport.org.nz | **W.** www.motorsport.org.nz

To Wayne Christie

Thanks Wayne

I presume the board has done an internal investigation into finding out who was responsible for the activity that fell foul with the law of the land

If possible I would hope the report will be available to the clubs

Regards Chris

Last but not least like us on face book so you can get instant updates on coming events.
HRCEventsNZ

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HRC Membership



MEMBERSHIP CARD

HRC
EVENTS
PO BOX 28 140 REMUERA

Name: _____

Membership No: _____

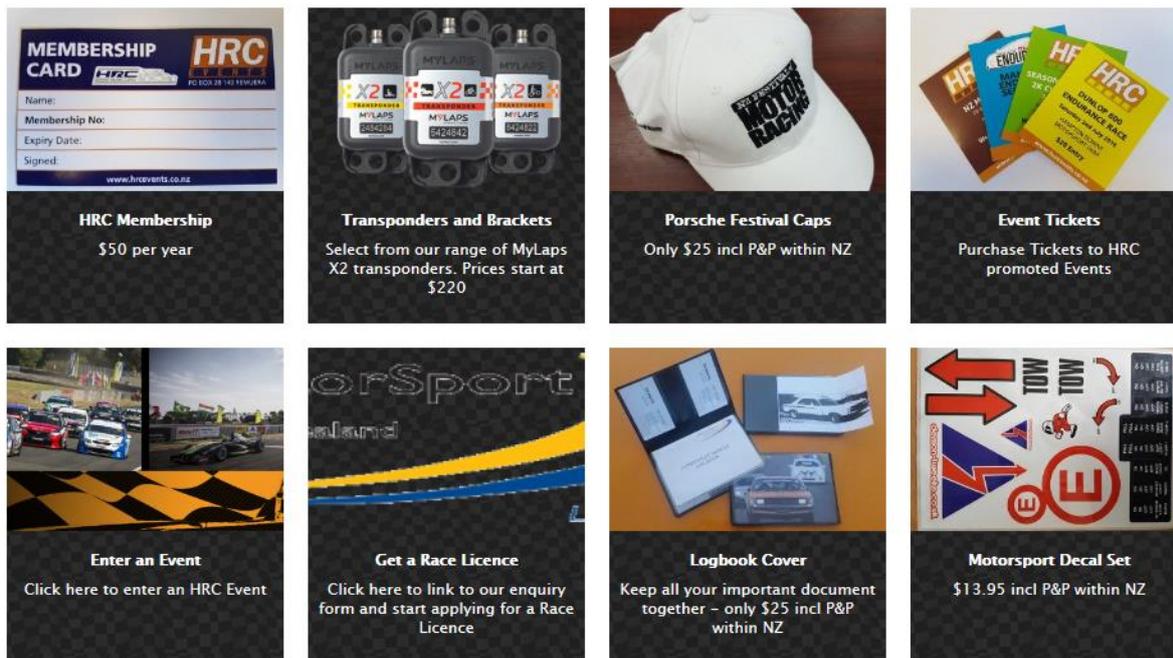
Expiry Date: _____

Signed: _____

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Are you a member of HRC?

If you would like to become a member of the Historic Racing Club, please fill out the form available on our website or order online at www.hrcevents.co.nz/shop.php for a small payment of \$50.00. You can pay by cheque, credit card, direct credit or cash. We are MSNZ affiliated and under that we administer, promote, and develop automobile sport in accordance with the objectives of MSNZ.



HRC Internet Shop

For Decals, hats, tickets, race numbers, transponders etc visit the HRC on line shop at <http://www.hrcevents.co.nz/shop.php>

Formula Libre News

So here is the good news. After the success of the three round Atlantic/Libre series in January, it gives me great pleasure to announce a 3 round Autumn Series 25th 26th March at HD, 8th 9th April at Taupo and finals 6th 7th May at Hampton Downs.

As an acknowledgement of the popularity of Atlantic / Libre racing, the series will be run with support from Simply Leasing, a specialist technology leasing company. If that name sounds familiar to you, Simply Leasing were the naming rights sponsor on Shaun Varney's Super Tourer two seasons ago. So they are no strangers to motorsport and see the value of being involved. Shaun for the last couple of seasons has been a hired gun in the Asian Porsche and GT series.

For the first time we will have presentations at the completion of each meeting for 1st, 2nd & 3rd places outright - as well as an additional 3 prizes for notable achievements throughout the weekends races. We are not divulging what these are for, as they will differ from meeting to meeting and we want you all to be involved at the end of the weekend. There will be a special presentation ceremony at the completion of each weekends racing so you need to be there because you could be the recipient regardless of where you place.

The first meeting is only 10 days away so please get your entries in as soon as possible. Kenny Smith has already committed to the event and I can't wait to see the resumption of his battle with James Watson. Through in David Glasson and Dean McCarroll and there will make be an epic battle at the front. Like I said there will be prizes for other placings and or performances so there could be a lot of

action going on. For those that entered the two rounds in January will remember the great racing going on throughout the entire field so there is good reason to enter.

Formula Libre was pretty lacklustre for many years but this season with a little bit of organisation you have all turned it around and made it one of the best race classes we have, so let's keep the momentum going and we are going to introduce things such as designated areas for the Atlantic/Libre competitors so you can mix and mingle with each other and share the experience both on and off the track.

Once again I ask you to please enter and you can do this on line at <http://www.motorsportentry.com/> and don't forget our new series Simply Leasing <http://www.simplyleasing.co.nz/>

Can you please let me know by return email if you are entering or not so I can organise the Paddock area for you.

Regards

John Tomlin aka JT

Formula Atlantic/Libre Co Ordinator

Cel 021 759 820



Report on Hooters Vintage Series Round 2 TAUPO – 7th / 8th January 2017

We had an entry of 18 scheduled for the second round of the series – held at Taupo's Bruce McLaren Motorsport Park. Unfortunately due to unforeseen circumstances, three failed to make it to the track, so 15 cars did battle over the 3 races.

After documentation and scrutineering, the cars made their way out to practice. We had 11 cars practicing as there were 4 of our number who were competing in Classic Trial. It was good to see some new cars running in the series. Richard Anderson in the RA Vanguard, Chris White in an Austin Healey, Alan Blundell in a Jaguar SS and Geoff Wilson in his MG TC. Roger Greaney set the fastest time in practice – but was not on pole as the Classic Trial double drivers had run in practice earlier and our Aussie guest Barry Bates in his Lotus had set a faster time.

Our first race saw Roger and Barry battle it out at the front with Barry eventually winning by a mere 0.7 seconds – hotly followed by David in the Lagonda. The RA Vanguard was suffering a misfire and limped round mid field whilst Phil Pearce in the Mini dueled it out with the Alfa of Keith Elliott to take 7th and 8th places respectively.

Race 2 on Sunday morning saw some shuffling of grid positions and several drivers opted to start from the back of the grid to make it a bit harder! However, the end result was the same with Barry in first, Roger in second and David in 3rd.

The final race saw more shuffling of grid positions to start. It seems however that no matter what the cream always rises to the top and once again the trio of Barry, Roger and David ended up in 1st, 2nd and 3rd !

After racing we had the traditional afternoon tea in the pit garages during which I was humbled to be presented with a 50th Birthday cake.

Thank you to all our competitors, sponsors and supporters who came along to Taupo. Also thanks to the good folk of Waitemata VCC for applying for the permit, being Clerk of the Course, Scrutineer and Speed Steward. I look forward to seeing you all again – plus more new faces at the 3rd round – to be held on Taupo Track 2 during the weekend of 8/9 April.



Motor racing Saving the Planet

Editor's Note: Patrick Moore, Ph.D., has been a leader in international environmentalism for more than 40 years. He cofounded Greenpeace and currently serves as chair of Allow Golden Rice. Moore received the 2014 Speaks Truth to Power Award at the Ninth International Conference on Climate Change, July 8, in Las Vegas.

My Lords and Ladies, Ladies and Gentlemen.

Thank you for the opportunity to set out my views on climate change. As I have stated publicly on many occasions, there is no definitive scientific proof, through real-world observation, that carbon dioxide is responsible for any of the slight warming of the global climate that has occurred during the past 300 years, since the peak of the Little Ice Age. If there were such a proof through testing and replication it would have been written down for all to see.

The contention that human emissions are now the dominant influence on climate is simply a hypothesis, rather than a universally accepted scientific theory. It is therefore correct, indeed verging on compulsory in the scientific tradition, to be skeptical of those who express certainty that "the science is settled" and "the debate is over".

But there is certainty beyond any doubt that CO₂ is the building block for all life on Earth and that without its presence in the global atmosphere at a sufficient concentration this would be a dead planet. Yet today our children and our publics are taught that CO₂ is a toxic pollutant that will destroy life and bring civilization to its knees. Tonight I hope to turn this dangerous human-caused propaganda on its head. Tonight I will demonstrate that human emissions of CO₂ have already saved life on our planet from a very untimely end. That in the absence of our emitting some of the carbon back into the atmosphere from whence it came in the first place, most or perhaps all life on Earth would begin to die less than two million years from today.

But first a bit of background.

I was born and raised in the tiny floating village of Winter Harbour on the northwest tip of Vancouver Island, in the rainforest by the Pacific. There was no road to my village so for eight years myself and a few other children were taken by boat each day to a one-room schoolhouse in the nearby fishing village. I didn't realize how lucky I was playing on the tide flats by the salmon-spawning streams in the rainforest, until I was sent off to boarding school in Vancouver where I excelled in science. I did my undergraduate studies at the University of British Columbia, gravitating to the life sciences – biology, biochemistry, genetics, and forestry – the environment and the industry my family has been in for more than 100 years. Then, before the word was known to the general public, I discovered the science of ecology, the science of how all living things are inter-related, and how we are related to them. At the height of the Cold War, the Vietnam War, the threat of all-out nuclear war and the newly emerging consciousness of the environment I was transformed into a radical environmental activist. While doing my PhD in ecology in 1971 I joined a group of activists who had begun to meet in the basement of the Unitarian Church, to plan a protest voyage against US hydrogen bomb testing in Alaska.

We proved that a somewhat rag-tag looking group of activists could sail an old fishing boat across the north Pacific ocean and help change the course of history. We created a focal point for the media to report on public opposition to the tests.

When that H-bomb exploded in November 1971, it was the last hydrogen bomb the United States ever detonated. Even though there were four more tests planned in the series, President Nixon canceled them due to the public opposition we had helped to create. That was the birth of Greenpeace.

Flushed with victory, on our way home from Alaska we were made brothers of the Namgis Nation in their Big House at Alert Bay near my northern Vancouver Island home. For Greenpeace this began the tradition of the Warriors of the Rainbow, after a Cree Indian legend that predicted the coming together of all races and creeds to save the Earth from destruction. We named our ship the Rainbow

Warrior and I spent the next fifteen years in the top committee of Greenpeace, on the front lines of the environmental movement as we evolved from that church basement into the world's largest environmental activist organization.

Next we took on French atmospheric nuclear testing in the South Pacific. They proved a bit more difficult than the US nuclear tests. It took years to eventually drive these tests underground at Mururoa Atoll in French Polynesia. In 1985, under direct orders from President Mitterrand, French commandos bombed and sank the Rainbow Warrior in Auckland Harbour, killing our photographer. Those protests continued until long after I left Greenpeace. It wasn't until the mid-1990s that nuclear testing finally ended in the South Pacific, and in most other parts of the world as well.

Going back to 1975, Greenpeace set out to save the whales from extinction at the hands of huge factory whaling fleets. We confronted the Soviet factory whaling fleet in the North Pacific, putting ourselves in front of their harpoons in our little rubber boats to protect the fleeing whales. This was broadcast on television news around the world, bringing the Save the Whales movement into everyone's living rooms for the first time. After four years of voyages, in 1979 factory whaling was finally banned in the North Pacific, and by 1981 in all the world's oceans.

In 1978 I sat on a baby seal off the East Coast of Canada to protect it from the hunter's club. I was arrested and hauled off to jail, the seal was clubbed and skinned, but a photo of me being arrested while sitting on the baby seal appeared in more than 3000 newspapers around the world the next morning. We won the hearts and minds of millions of people who saw the baby seal slaughter as outdated, cruel, and unnecessary.

Why then did I leave Greenpeace after 15 years in the leadership? When Greenpeace began we had a strong humanitarian orientation, to save civilization from destruction by all-out nuclear war. Over the years the "peace" in Greenpeace was gradually lost and my organization, along with much of the environmental movement, drifted into a belief that humans are the enemies of the earth. I believe in a humanitarian environmentalism because we are part of nature, not separate from it. The first principle of ecology is that we are all part of the same ecosystem, as Barbara Ward put it, "One human family on spaceship Earth", and to preach otherwise teaches that the world would be better off without us. As we shall see later in the presentation there is very good reason to see humans as essential to the survival of life on this planet.

In the mid 1980s I found myself the only director of Greenpeace International with a formal education in science. My fellow directors proposed a campaign to "ban chlorine worldwide", naming it "The Devil's Element". I pointed out that chlorine is one of the elements in the Periodic Table, one of the building blocks of the Universe and the 11th most common element in the Earth's crust. I argued the fact that chlorine is the most important element for public health and medicine. Adding chlorine to drinking water was the biggest advance in the history of public health and the majority of our synthetic medicines are based on chlorine chemistry. This fell on deaf ears, and for me this was the final straw. I had to leave.

When I left Greenpeace I vowed to develop an environmental policy that was based on science and logic rather than sensationalism, misinformation, anti-humanism and fear. In a classic example, a recent protest led by Greenpeace in the Philippines used the skull and crossbones to associate Golden Rice with death, when in fact Golden Rice has the potential to help save 2 million children from death due to vitamin A deficiency every year.

The Keeling curve of CO₂ concentration in the Earth's atmosphere since 1959 is the supposed smoking gun of catastrophic climate change. We presume CO₂ was at 280 ppm at the beginning of the Industrial Revolution, before human activity could have caused a significant impact. I accept that most of the rise from 280 to 400 ppm is caused by human CO₂ emissions with the possibility that some of it is due to outgassing from warming of the oceans.

NASA tells us that "Carbon Dioxide Controls Earth's Temperature" in child-like denial of the many other factors involved in climate change. This is reminiscent of NASA's contention that there might be life on Mars. Decades after it was demonstrated that there was no life on Mars, NASA continues to use it as a hook to raise public funding for more expeditions to the Red Planet. The promulgation of fear of Climate Change now serves the same purpose. As Bob Dylan prophetically pointed out, "Money doesn't talk, it swears", even in one of the most admired science organizations in the world.

On the political front the leaders of the G7 plan to “end extreme poverty and hunger” by phasing out 85% of the world’s energy supply including 98% of the energy used to transport people and goods, including food. The Emperors of the world appear clothed in the photo taken at the close of the meeting but it was obviously Photo-shopped. They should be required to stand naked for making such a foolish statement.

The world’s top climate body, the Intergovernmental Panel on Climate change, is hopelessly conflicted by its makeup and its mandate. The Panel is composed solely of the World Meteorological Organization, weather forecasters, and the United Nations Environment Program, environmentalists. Both these organizations are focused primarily on short-term timescales, days to maybe a century or two. But the most significant conflict is with the Panel’s mandate from the United Nations. They are required only to focus on “a change of climate which is attributed directly or indirectly to human activity that alters the composition of the atmosphere, and which is in addition to natural climate variability.” So if the IPCC found that climate change was not being affected by human alteration of the atmosphere or that it is not “dangerous” there would be no need for them to exist. They are virtually mandated to find on the side of apocalypse.

Scientific certainty, political pandering, a hopelessly conflicted IPCC, and now the Pope, spiritual leader of the Catholic Church, in a bold move to reinforce the concept of original sin, says the Earth looks like “an immense pile of filth” and we must go back to pre-industrial bliss, or is that squalor?

And then there is the actual immense pile of filth fed to us more than three times daily by the green-media nexus, a seething cauldron of imminent doom, like we are already condemned to Damnation in Hell and there is little chance of Redemption. I fear for the end of the Enlightenment. I fear an intellectual Gulag with Greenpeace as my prison guards.

Let’s begin with our knowledge of the long-term history of the Earth’s temperature and of CO₂ in the Earth’s atmosphere. Our best inference from various proxies back indicate that CO₂ was higher for the first 4 billion years of Earth’s history than it has been since the Cambrian Period until today. I will focus on the past 540 million years since modern life forms evolved. It is glaringly obvious that temperature and CO₂ are in an inverse correlation at least as often as they are in any semblance of correlation. Two clear examples of reverse correlation occurred 150 million years and 50 million years ago. At the end of the Jurassic temperature fell dramatically while CO₂ spiked. During the Eocene Thermal Maximum, temperature was likely higher than any time in the past 550 million years while CO₂ had been on a downward track for 100 million years. This evidence alone sufficient to warrant deep speculation of any claimed lock-step causal relationship between CO₂ and temperature.

The Devonian Period beginning 400 million years ago marked the culmination of the invasion of life onto the land. Plants evolved to produce lignin, which in combination with cellulose, created wood which in turn for the first time allowed plants to grow tall, in competition with each other for sunlight. As vast forests spread across the land living biomass increased by orders of magnitude, pulling down carbon as CO₂ from the atmosphere to make wood. Lignin is very difficult to break down and no decomposer species possessed the enzymes to digest it. Trees died atop one another until they were 100 metres or more in depth. This was the making of the great coal beds around the world as this huge store of sequestered carbon continued to build for 90 million years. Then, fortunately for the future of life, white rot fungi evolved to produce the enzymes that can digest lignin and coincident with that the coal-making era came to an end.

There was no guarantee that fungi or any other decomposer species would develop the complex of enzymes required to digest lignin. If they had not, CO₂, which had already been drawn down for the first time in Earth’s history to levels similar to today’s, would have continued to decline as trees continued to grow and die. That is until CO₂ approached the threshold of 150 ppm below which plants begin first to starve, then stop growing altogether, and then die. Not just woody plants but all plants. This would bring about the extinction of most, if not all, terrestrial species, as animals, insects, and other invertebrates starved for lack of food. And that would be that. The human species would never have existed. This was only the first time that there was a distinct possibility that life would come close to extinguishing itself, due to a shortage of CO₂, which is essential for life on Earth.

A well-documented record of global temperature over the past 65 million years shows that we have been in a major cooling period since the Eocene Thermal Maximum 50 million years ago. The Earth was an average 16C warmer then, with most of the increased warmth at the higher latitudes. The

entire planet, including the Arctic and Antarctica were ice-free and the land there was covered in forest. The ancestors of every species on Earth today survived through what may have been the warmest time in the history of life. It makes one wonder about dire predictions that even a 2C rise in temperature from pre-industrial times would cause mass extinctions and the destruction of civilization. Glaciers began to form in Antarctica 30 million years ago and in the northern hemisphere 3 million years ago. Today, even in this interglacial period of the Pleistocene Ice Age, we are experiencing one of the coldest climates in the Earth's history.

Coming closer to the present we have learned from Antarctic ice cores that for the past 800,000 years there have been regular periods of major glaciation followed by interglacial periods in 100,000 year-cycles. These cycles coincide with the Milankovitch cycles that are tied to the eccentricity of the Earth's orbit and its axial tilt. It is highly plausible that these cycles are related to solar intensity and the seasonal distribution of solar heat on the Earth's surface. There is a strong correlation between temperature and the level of atmospheric CO₂ during these successive glaciations, indicating a possible cause-effect relationship between the two. CO₂ lags temperature by an average of 800 years during the most recent 400,000-year period, indicating that temperature is the cause, as the cause never comes after the effect.

Looking at the past 50,000 years of temperature and CO₂ we can see that changes in CO₂ follow changes in temperature. This is as one could expect, as the Milankovitch cycles are far more likely to cause a change in temperature than a change in CO₂. And a change in the temperature is far more likely to cause a change in CO₂ due to outgassing of CO₂ from the oceans during warmer times and an ingassing (absorption) of CO₂ during colder periods. Yet climate alarmists persist in insisting that CO₂ is causing the change in temperature, despite the illogical nature of that assertion.

It is sobering to consider the magnitude of climate change during the past 20,000 years, since the peak of the last major glaciation. At that time there were 3.3 kilometres of ice on top of what is today the city of Montreal, a city of more than 3 million people. 95% of Canada was covered in a sheet of ice. Even as far south as Chicago there was nearly a kilometre of ice. If the Milankovitch cycle continues to prevail, and there is little reason aside from our CO₂ emissions to think otherwise, this will happen gradually again during the next 80,000 years. Will our CO₂ emissions stave off another glaciation as James Lovelock has suggested? There doesn't seem to be much hope of that so far, as despite 1/3 of all our CO₂ emissions being released during the past 18 years the UK Met Office contends there has been no statistically significant warming during this century.

At the height of the last glaciation the sea level was about 120 metres lower than it is today. By 7,000 years ago all the low-altitude, mid-latitude glaciers had melted. There is no consensus about the variation in sea level since then although many scientists have concluded that the sea level was higher than today during the Holocene Thermal optimum from 9,000 to 5,000 years ago when the Sahara was green. The sea level may also have been higher than today during the Medieval Warm Period.

Hundred of islands near the Equator in Papua, Indonesia, have been undercut by the sea in a manner that gives credence to the hypothesis that there has been little net change in sea level in the past thousands of years. It takes a long time for so much erosion to occur from gentle wave action in a tropical sea.

Coming back to the relationship between temperature and CO₂ in the modern era we can see that temperature has risen at a steady slow rate in Central England since 1700 while human CO₂ emissions were not relevant until 1850 and then began an exponential rise after 1950. This is not indicative of a direct causal relationship between the two. After freezing over regularly during the Little Ice Age the River Thames froze for the last time in 1814, as the Earth moved into what might be called the Modern Warm Period.

The IPCC states it is "extremely likely" that human emissions have been the dominant cause of global warming "since the mid-20th century", that is since 1950. They claim that "extremely" means 95% certain, even though the number 95 was simply plucked from the air like an act of magic. And "likely" is not a scientific word but rather indicative of a judgment, another word for an opinion.

There was a 30-year period of warming from 1910-1940, then a cooling from 1940 to 1970, just as CO₂ emissions began to rise exponentially, and then a 30-year warming from 1970-2000 that was

very similar in duration and temperature rise to the rise from 1910-1940. One may then ask “what caused the increase in temperature from 1910-1940 if it was not human emissions? And if it was natural factors how do we know that the same natural factors were not responsible for the rise between 1970-2000.” You don’t need to go back millions of years to find the logical fallacy in the IPCC’s certainty that we are the villains in the piece.

Water is by far the most important greenhouse gas, and is the only molecule that is present in the atmosphere in all three states, gas, liquid, and solid. As a gas, water vapour is a greenhouse gas, but as a liquid and solid it is not. As a liquid water forms clouds, which send solar radiation back into space during the day and hold heat in at night. There is no possibility that computer models can predict the net effect of atmospheric water in a higher CO₂ atmosphere. Yet warmists postulate that higher CO₂ will result in positive feedback from water, thus magnifying the effect of CO₂ alone by 2-3 times. Other scientists believe that water may have a neutral or negative feedback on CO₂. The observational evidence from the early years of this century tends to reinforce the latter hypothesis.

How many politicians or members of the media or the public are aware of this statement about climate change from the IPCC in 2007?

“we should recognise that we are dealing with a coupled nonlinear chaotic system, and therefore that the long-term prediction of future climate states is not possible.”

There is a graph showing that the climate models have grossly exaggerated the rate of warming that confirms the IPCC statement. The only trends the computer models seem able to predict accurately are ones that have already occurred.

Coming to the core of my presentation, CO₂ is the currency of life and the most important building block for all life on Earth. All life is carbon-based, including our own. Surely the carbon cycle and its central role in the creation of life should be taught to our children rather than the demonization of CO₂, that “carbon” is a “pollutant” that threatens the continuation of life. We know for a fact that CO₂ is essential for life and that it must be at a certain level in the atmosphere for the survival of plants, which are the primary food for all the other species alive today. Should we not encourage our citizens, students, teachers, politicians, scientists, and other leaders to celebrate CO₂ as the giver of life that it is?

It is a proven fact that plants, including trees and all our food crops, are capable of growing much faster at higher levels of CO₂ than present in the atmosphere today. Even at the today’s concentration of 400 ppm plants are relatively starved for nutrition. The optimum level of CO₂ for plant growth is about 5 times higher, 2000 ppm, yet the alarmists warn it is already too high. They must be challenged every day by every person who knows the truth in this matter. CO₂ is the giver of life and we should celebrate CO₂ rather than denigrate it as is the fashion today.

We are witnessing the “Greening of the Earth” as higher levels of CO₂, due to human emissions from the use of fossil fuels, promote increased growth of plants around the world. This has been confirmed by scientists with CSIRO in Australia, in Germany, and in North America. Only half of the CO₂ we are emitting from the use of fossil fuels is showing up in the atmosphere. The balance is going somewhere else and the best science says most of it is going into an increase in global plant biomass. And what could be wrong with that, as forests and agricultural crops become more productive?

All the CO₂ in the atmosphere has been created by outgassing from the Earth’s core during massive volcanic eruptions. This was much more prevalent in the early history of the Earth when the core was hotter than it is today. During the past 150 million years there has not been enough addition of CO₂ to the atmosphere to offset the gradual losses due to burial in sediments.

Let’s look at where all the carbon is in the world, and how it is moving around.

Today, at just over 400 ppm, there are 850 billion tons of carbon as CO₂ in the atmosphere. By comparison, when modern life-forms evolved over 500 million years ago there was nearly 15,000 billion tons of carbon in the atmosphere, 17 times today’s level. Plants and soils combined contain more than 2,000 billion tons of carbon, more than twice as much as the entire global atmosphere. The oceans contain 38,000 billion tons of carbon, as dissolved CO₂, 45 times as much as in the atmosphere. Fossil fuels, which are made from plants that pulled CO₂ from the atmosphere account for 5,000 – 10,000 billion tons of carbon, 6 – 12 times as much carbon as is in the atmosphere.

But the truly stunning number is the amount of carbon that has been sequestered from the atmosphere and turned into carbonaceous rocks. 100,000,000 billion tons, that's one quadrillion tons of carbon, have been turned into stone by marine species that learned to make armour-plating for themselves by combining calcium and carbon into calcium carbonate. Limestone, chalk, and marble are all of life origin and amount to 99.9% of all the carbon ever present in the global atmosphere. The white cliffs of Dover are made of the calcium carbonate skeletons of coccolithophores, tiny marine phytoplankton.

The vast majority of the carbon dioxide that originated in the atmosphere has been sequestered and stored quite permanently in carbonaceous rocks where it cannot be used as food by plants.

Beginning 540 million years ago at the beginning of the Cambrian Period many marine species of invertebrates evolved the ability to control calcification and to build armour plating to protect their soft bodies. Shellfish such as clams and snails, corals, coccolithofores (phytoplankton) and foraminifera (zooplankton) began to combine carbon dioxide with calcium and thus to remove carbon from the life cycle as the shells sank into sediments; 100,000,000 billion tons of carbonaceous sediment. It is ironic that life itself, by devising a protective suit of armour, determined its own eventual demise by continuously removing CO₂ from the atmosphere. This is carbon sequestration and storage writ large. These are the carbonaceous sediments that form the shale deposits from which we are fracking gas and oil today. And I add my support to those who say, "OK UK, get fracking".

The past 150 million years has seen a steady drawing down of CO₂ from the atmosphere. There are many components to this but what matters is the net effect, a removal on average of 37,000 tons of carbon from the atmosphere every year for 150 million years. The amount of CO₂ in the atmosphere was reduced by about 90% during this period. This means that volcanic emissions of CO₂ have been outweighed by the loss of carbon to calcium carbonate sediments on a multi-million year basis.

If this trend continues CO₂ will inevitably fall to levels that threaten the survival of plants, which require a minimum of 150 ppm to survive. If plants die all the animals, insects, and other invertebrates that depend on plants for their survival will also die.

How long will it be at the present level of CO₂ depletion until most or all of life on Earth is threatened with extinction by lack of CO₂ in the atmosphere?

During this Pleistocene Ice Age, CO₂ tends to reach a minimum level when the successive glaciations reach their peak. During the last glaciation, which peaked 18,000 years ago, CO₂ bottomed out at 180 ppm, extremely likely the lowest level CO₂ has been in the history of the Earth. This is only 30 ppm above the level that plants begin to die. Paleontological research has demonstrated that even at 180 ppm there was a severe restriction of growth as plants began to starve. With the onset of the warmer interglacial period CO₂ rebounded to 280 ppm. But even today, with human emissions causing CO₂ to reach 400 ppm plants are still restricted in their growth rate, which would be much higher if CO₂ were at 1000-2000 ppm.

Here is the shocking news. If humans had not begun to unlock some of the carbon stored as fossil fuels, all of which had been in the atmosphere as CO₂ before sequestration by plants and animals, life on Earth would have soon been starved of this essential nutrient and would begin to die. Given the present trends of glaciations and interglacial periods this would likely have occurred less than 2 million years from today, a blink in nature's eye, 0.05% of the 3.5 billion-year history of life.

No other species could have accomplished the task of putting some of the carbon back into the atmosphere that was taken out and locked in the Earth's crust by plants and animals over the millennia. This is why I honour James Lovelock in my lecture this evening. Jim was for many years of the belief that humans are the one-and-only rogue species on Gaia, destined to cause catastrophic global warming. I enjoy the Gaia hypothesis but I am not religious about it and for me this was too much like original sin. It was as if humans were the only evil species on the Earth.

But James Lovelock has seen the light and realized that humans may be part of Gaia's plan, and he has good reason to do so. And I honour him because it takes courage to change your mind after investing so much of your reputation on the opposite opinion. Rather than seeing humans as the enemies of Gaia, Lovelock now sees that we may be working with Gaia to "stave of another ice age", or major glaciation. This is much more plausible than the climate doom-and-gloom scenario because our release of CO₂ back into the atmosphere has definitely reversed the steady downward slide of

this essential food for life, and hopefully may reduce the chance that the climate will slide into another period of major glaciation. We can be certain that higher levels of CO₂ will result in increased plant growth and biomass. We really don't know whether or not higher levels of CO₂ will prevent or reduce the eventual slide into another major glaciation. Personally I am not hopeful for this because the long-term history just doesn't support a strong correlation between CO₂ and temperature.

It does boggle the mind in the face of our knowledge that the level of CO₂ has been steadily falling that human CO₂ emissions are not universally acclaimed as a miracle of salvation. From direct observation we already know that the extreme predictions of CO₂'s impact on global temperature are highly unlikely given that about one-third of all our CO₂ emissions have been discharged during the past 18 years and there has been no statistically significant warming. And even if there were some additional warming that would surely be preferable to the extermination of all or most species on the planet.

You heard it here. "Human emissions of carbon dioxide have saved life on Earth from inevitable starvation and extinction due to lack of CO₂". To use the analogy of the Atomic Clock, if the Earth were 24 hours old we were at 38 seconds to midnight when we reversed the trend towards the End Times. If that isn't good news I don't know what is. You don't get to stave off Armageddon every day.

I issue a challenge to anyone to provide a compelling argument that counters my analysis of the historical record and the prediction of CO₂ starvation based on the 150 million year trend. Ad hominem arguments about "deniers" need not apply. I submit that much of society has been collectively misled into believing that global CO₂ and temperature are too high when the opposite is true for both. Does anyone deny that below 150 ppm CO₂ that plants will die? Does anyone deny that the Earth has been in a 50 million-year cooling period and that this Pleistocene Ice Age is one of the coldest periods in the history of the planet?

If we assume human emissions have to date added some 200 billion tons of CO₂ to the atmosphere, even if we ceased using fossil fuels today we have already bought another 5 million years for life on earth. But we will not stop using fossil fuels to power our civilization so it is likely that we can forestall plant starvation for lack of CO₂ by at least 65 million years. Even when the fossil fuels have become scarce we have the quadrillion tons of carbon in carbonaceous rocks, which we can transform into lime and CO₂ for the manufacture of cement. And we already know how to do that with solar energy or nuclear energy. This alone, regardless of fossil fuel consumption, will more than offset the loss of CO₂ due to calcium carbonate burial in marine sediments. Without a doubt the human species has made it possible to prolong the survival of life on Earth for more than 100 million years. We are not the enemy of nature but its salvation.

As a postscript I would like to make a few comments about the other side of the alleged dangerous climate change coin, our energy policy, in particular the much maligned fossil fuels; coal, oil, and natural gas.

Depending how it's tallied, fossil fuels account for between 85-88% of global energy consumption and more than 95% of energy for the transport of people and goods, including our food.

Earlier this year the leaders of the G7 countries agreed that fossil fuels should be phased out by 2100, a most bizarre development to say the least. Of course no intelligent person really believes this will happen but it is a testament to the power of the elites that have converged around the catastrophic human-caused climate change that so many alleged world leaders must participate in the charade. How might we convince them to celebrate CO₂ rather than to denigrate it?

A lot of nasty things are said about fossil fuels even though they are largely responsible for our longevity, our prosperity, and our comfortable lifestyles.

Hydrocarbons, the energy components of fossil fuels, are 100% organic, as in organic chemistry. They were produced by solar energy in ancient seas and forests. When they are burned for energy the main products are water and CO₂, the two most essential foods for life. And fossil fuels are by far the largest storage battery of direct solar energy on Earth. Nothing else comes close except nuclear fuel, which is also solar in the sense that it was produced in dying stars.

Today, Greenpeace protests Russian and American oil rigs with 3000 HP diesel-powered ships and uses 200 HP outboard motors to board the rigs and hang anti-oil plastic banners made with fossil

fuels. Then they issue a media release telling us we must “end our addiction to oil”. I wouldn’t mind so much if Greenpeace rode bicycles to their sailing ships and rowed their little boats into the rigs to hang organic cotton banners. We didn’t have an H-bomb on board the boat that sailed on the first Greenpeace campaign against nuclear testing.

Some of the world’s oil comes from my native country in the Canadian oil sands of northern Alberta. I had never worked with fossil fuel interests until I became incensed with the lies being spread about my country’s oil production in the capitals of our allies around the world. I visited the oil sands operations to find out for myself what was happening there.

It is true it’s not a pretty sight when the land is stripped bare to get at the sand so the oil can be removed from it. Canada is actually cleaning up the biggest natural oil spill in history, and making a profit from it. The oil was brought to the surface when the Rocky Mountains were thrust up by the colliding Pacific Plate. When the sand is returned back to the land 99% of the so-called “toxic oil” has been removed from it.

Anti-oil activists say the oil-sands operations are destroying the boreal forest of Canada. Canada’s boreal forest accounts for 10% of all the world’s forests and the oil-sands area is like a pimple on an elephant by comparison. By law, every square inch of land disturbed by oil-sands extraction must be returned to native boreal forest. When will cities like London, Brussels, and New York that have laid waste to the natural environment be returned to their native ecosystems?

The art and science of ecological restoration, or reclamation as it is called in the mining industry, is a well-established practice. The land is re-contoured, the original soil is put back, and native species of plants and trees are established. It is possible, by creating depressions where the land was flat, to increase biodiversity by making ponds and lakes where wetland plants, insects, and waterfowl can become established in the reclaimed landscape.

The tailings ponds where the cleaned sand is returned look ugly for a few years but are eventually reclaimed into grasslands. The Fort McKay First Nation is under contract to manage a herd of bison on a reclaimed tailings pond. Every tailings pond will be reclaimed in a similar manner when operations have been completed.

As an ecologist and environmentalist for more than 45 years this is good enough for me. The land is disturbed for a blink of an eye in geological time and is then returned to a sustainable boreal forest ecosystem with cleaner sand. And as a bonus we get the fuel to power our weed-eaters, scooters, motorcycles, cars, trucks, buses, trains, and aircraft.

To conclude, carbon dioxide from burning fossil fuels is the stuff of life, the staff of life, the currency of life, indeed the backbone of life on Earth.

I am honoured to have been chosen to deliver your annual lecture.

Thank you for listening to me this evening.

I hope you have seen CO₂ from a new perspective and will join with me to Celebrate CO₂!

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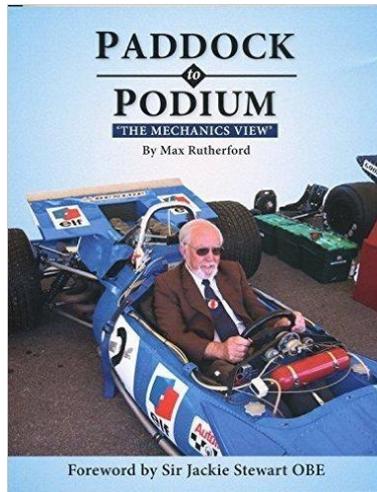
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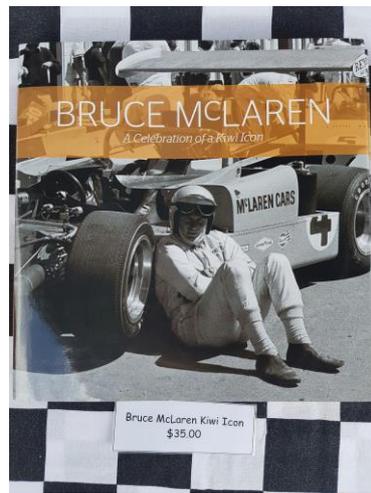
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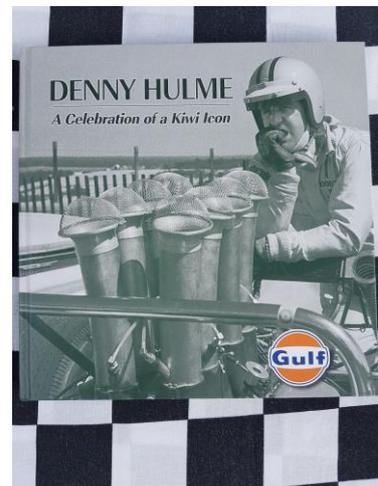
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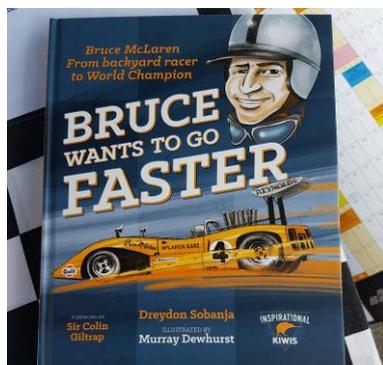
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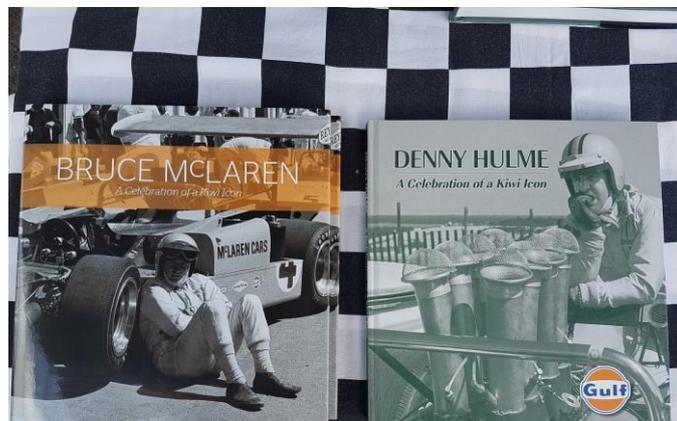
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Coming Events

HRC Classic and Historic Series

25th 26th March 2017 **NB Note Change of Date**

Legends Of Speed - Hampton Downs

Classic

Formula First, AES, Arrows, Alfa, , Historic Formula Ford, Historic Muscle/ Saloon Cars, Libre, BMW E30, BMW 2 Litre, Historic Sports Sedans, Classic Trial

IRC and NZRDL Meetings

15th 16th April 2017

Taupo Car Club Taupo IRC

Bruce McLaren Motor Sport Park at Taupo

IRC /HRC classes

Formula First, NZ6, Minis, Pro 7, SS2000, Pre 65, CMC

8th 9th April 2017

Barrie Algie Memorial Meeting Track 2 HRC

Bruce McLaren Motor Sport Park at Taupo

Classic HRC/ IRC

2K Cup, Super Lap, Sports Car/ Libre, Hooters Vintage Series, Historic Sports Sedans

6th 7th May 2017

Season Finale Hampton Downs HRC

Classic HRC /IRC Classes

International Track TBA

2K Cup, Super Karts, BMW Enduro x2 , Sports Cars Libre, Super Lap, Pre65, Honda Enduro, Rotary Enthusiasts, NZ6

NZIGP Events

Auckland Car Club

9th April Hampton Downs

HRC & NZRDL

Twilight Practice Days

3rd April 2017 Monday Hampton Short Track

7th April 2017 Women in Motorsport Event Taupo

ENEOS North Island Endurance Series 2017

20th May 2017 Bruce McLaren Motorsport Park

24th June 2017 Hampton Downs International Motorsport Park

22nd July 2017 Pukekohe Park