THE SIR HENRY ROYCE FOUNDATION AUSTRALIA

Geebung Museum Qld.

A Museum of Motoring History

Unit 2, 473 Newman Road, Geebung. Qld. 4034 Vol. 2 2021

Newsletter of the Sir Henry Royce Foundation Geebung Museum Qld.

L-R Boeing 707 and Boeing 747
Qantas Founders Museum, Longreach Qld.

Rolls-Royce Engines used to power the Boeing 747

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WE ARE OPEN - SATURDAYS FROM 12 NOON till 4.00PM.

RE: S.H.R.F. GEEBUNG MUSEUM COVID-19 RESTRICTIONS:-

THE MUSEUM WILL BE OBSERVING GOVERNMENT GUIDELINES IN RELATION TO COVID-19, i.e. DURING YOUR VISIT. WE WOULD ASK-

"WASH YOUR HANDS AS NECESSARY" "USE HAND SANITISER (PROVIDED)" "PRACTICE PHYSICAL DISTANCING"

We would ask that during your Visit to the Museum you:-

"Register your Contact Details by completing the Form provided"

Guidelines for Covid-19 are on display at the entrance to the Museum.

"Thank you for your Co-operation".

MUSEUM NEWS:

During February the Sir Henry Royce Foundation Geebung Museum hosted the Bentley Drivers Club for their Annual General Meeting and Luncheon. Approximately 25 members attended the event. Lunch included BBQ Meats and Salad and a choice of Deserts which were prepared and served by our Volunteer Adrian ably assisted by Carl and Michael.

Some of the beautiful Bentleys attending (with their owners) at the 20th February, 2021 event.

On Saturday 27th February we received a donation of Books, Magazines etc. from Ben Hutchins. Ben is a member of CAPS car club.

This group will be visiting the Museum on 6th March for a guided tour and morning tea.

Thank you Ben. Looking forward to seeing "What's in the Boxes".

FOR SALE:

1. **If you collect car badges associated with "British Car Clubs Day" and "All British Day" held in Brisbane over past years, and you missed collecting the odd years Car Badge, here is a chance to perhaps find and collect the year you may have missing.**
   The years available for sale are: - British Car Clubs Day 1988; 1991; 1994; 1996; 1997.

   PRICE IS $5.00 PER BADGE.

2. **Through the generosity of Donations from various sources we have a large number of spare "Praeclarvm Magazines" for sale. If you are missing some volumes in your collection or would like to read some back copies of the Magazine this is a great opportunity for you to browse what we have available and to make a purchase for the COST OF A GOLD COIN DONATION.**

All funds raised will be used to support the work of the Sir Henry Royce Foundation Geebung Museum.
To purchase any of these Badges – Contact: Barry Sparks on (07) 3351 6176 or visit the Museum any Saturday between 12 Noon and 4.00pm.

Museum Opening Times to note on your Calendar:-

Saturday, 13th March, 2021	**Geebung Museum open from 12Noon till 4.00pm.**
Saturday, 20th March, 2021	**Geebung Museum open from 12Noon till 4.00pm.**
Saturday, 27th March, 2021	**Geebung Museum open from 12Noon till 4.00pm.**
Saturday, 3rd April, 2021	**Geebung Museum open from 12Noon till 4.00pm.**

Entrance Fees per person are:-

Adults $ 10.00, Children $ 1.00 and a Family (2 Adults + Children under 12years) $ 20.00.
A tour of the facility is available free of charge on any Saturday afternoon.
Tea, Coffee etc. available for $2.00 per person.

BOOK/S in the LIBRARY:

The Library has received a few new additions which are yet to be sorted and catalogued.

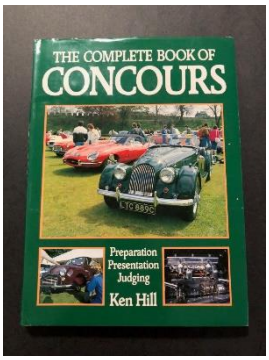
We received bound copies of "The Flying Lady" and the R.R.E.C. Club Magazines to add to the library collection, as well as, additional boxes of books, magazines etc.

The Museums comprehensive and large collection of Rolls-Royce, Bentley and other Marques Books, Magazines and Technical Publications, Manuals etc., including those mentioned above, are available during your visit to the Museum.

"Select a Book, Magazine or Manual etc.; Enjoy a Coffee/Tea-n-Biscuit (minimum cost);
Relax and Read your choice of reading material".

There are Volunteers on hand to help you with your queries in relation to any of the above.

'Have you read either of the following books?' They are well worth the read.



"The Complete Book of Concours" by Ken Hill.

This book was written in 1983 by Ken, an acclaimed International Judge of all types of motor cars. He has judged in the United Kingdom, United State of America, Canada and Europe.

The book is of great interest and is a must to be viewed by those who have their vehicles judged or are themselves doing the judging at Rallies etc.

"Alfa Romeo – Ninety Years of Success on Road & Track"
By David Owen Written in 1983.
Excerpt from Page 75:

"To increase the speed of their Racing Cars they mounted Two (Yes 2) 6 Cylinder motors side by side coupled together. Each motor had its own Clutch, Gearbox and Final drive (Differential) connected to one of the rear wheels.

There were Two Gear Changes linked together to a single lever to avoid any danger of the driver selecting different gears for each engine."

You have to admit this was an amazing feat in the year – 1931. The Alpha Romeo was called 'The TIPOA5'.

Both of the above books were a donation from the Estate of Brad Page.
Preceding Book Reviews by Barry Sparks.

SAYING FOR THE MONTH:

"There is no substitute for hard work." *By Thomas Edison.*

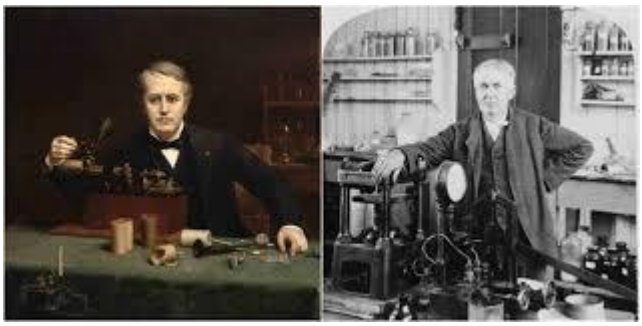
And so to Thomas Alva Edison – who was he?

THOMAS ALVA EDISION

AMERICAN INVENTOR [OWNER OF 1,093 PATENTS]

BORN 11/02/1847 IN MILAN, OHIO, USA. DIED 18/10/1931 IN WEST ORANGE, NEW JERSEY, USA.

Thomas Alva Edison **was one of the most famous and prolific inventors of all time. He was responsible for tremendous influences on modern life.**



Edison is credited for contributing to various inventions, including the Phonograph, the Kinetoscope, the Dictaphone, the Electric Lamp (in particular the Incandescent Light Bulb) and the Autographic Printer.

He also greatly improved the telephone by inventing the Carbon Microphone.

Most of these inventions were not completely original but improvements of earlier inventions, however, one of Edison's major innovations was the first Industrial Research and Development Lab which was built in Menlo Park and West Orange in the United States.

Throughout the 20th century, Edison was the world's most Prolific Inventor. At the beginning of the century he held 736 U.S. patents. His final count was 1,093 U.S. patents including 1084 utility patents (patents for inventions) and 9 artistic design patents.

It was not until June 17, 2003 that he was passed by Japanese inventor Shunpei Yamazaki.[2] Yamazaki was subsequently passed by Australian inventor Kia Silverbrook on February 26, 2008.[3]

"Why is Thomas Alva Edison significant to the Sir Henry Royce Foundation Geebung Museum?"

In 2018 the Geebung Museum received a donation from *"ENERGEX LIMITED" Courtesy of the "QUEENS WHARF PROJECT".*

A piece of cable, approximately 60cm in length, a section of the 'Edison Street Tube" designed by Thomas Edison and built by his USA based Company the "Thomas Edison Company" came into the possession of the Sir Henry Royce Foundation Geebung Museum in 2018.

The tube, 134 years old, was found during excavations by 'The Queen's Wharf' construction crew on the 6th February, 2018 in William Street, Brisbane.

In 1883 the first practical use of Electricity in Brisbane was to power the Government Printing Office in George Street, Brisbane. After New York and London, Brisbane was the third city in the world to use electricity in public places.
These early electricity cables were an iron and copper pipe with wire, paraffin and beeswax inside.
The return cable has approximately 37 copper strands in a cast iron casing with the pitch made of Asphaltum, Oxidised linseed oil, Paraffin and Beeswax - which was found seeping from both ends of the conduit.

It was decided, for safety, to seal the ends of the conduit to eliminate leakage and then it was cleaned and mounted for Display.

Prepared for Display by: Barry Sparks and John "Stewie" Stewart.

For those of you who have visited the Geebung Museum you would have seen a display in relation to this gentleman and the Cable in question, if not, check it out when you next visit the Museum.

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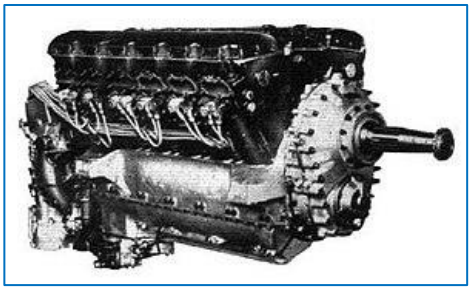
"GOSHAWK" - Are you familiar with this word?

I am sure many of you know what it is and of its connection to Rolls-Royce.



Goshawk Piston V-12 Aero Engine

The Goshawk was a 600hp Rolls-Royce Engine. It was a development of the Rolls-Royce Kestral IV prototype engine that used evaporative (also known as steam) cooling. The engine first ran in 1933 but was never adopted for full production. It was, however, used to power the Short Knuckleduster, the Supermarine Type 224 (a predecessor to the Supermarine Spitfire) and other prototype aircrafts.

"Short Knuckleduster"

In the initial stages of development problems with coolant leaks, coolant pumping and the fact that large wing-mounted condensing radiators would be vulnerable to combat damage the project was cancelled.
A number of variations of the motor were developed from the prototype Kestrel IV to the Goshawk VIII which was a 660hp Special Experimental Engine with maximum power output of 837hp.

The Goshawk was used to power the twin-engine Short Knuckleduster flying boat which was "preferred" for submissions to Air Ministry specification F7/30 for a fighter aircraft.

Hawker's privately developed High Speed Fury Mk 2 (K3586) and Intermediate Fury 2 development aircraft and the Westland Pterodactyl V (K2770) were powered by the Goshawk. The Goshawk was also used for trials in the Gloster TSR.38 (S1705) and Gloster Gnatsnapper Prototype (N227).

Specifications –

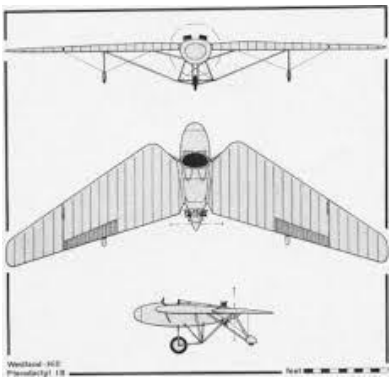
Type:	**12 Cylinder liquid-cooled 60 degree Vee Aircraft piston Engine**		
Bore:	**5.0 in (127mm)**	**Stroke:**	**5.5 in (140mm)**
Displacement:	**1,295.88 in³ (21.25 L)**	**Length:**	**74.61 in (1,895mm)**
Width:	**24.41 in (620mm)**	**Height:**	**35.63 in (905 mm)**
Dry Weight:	**975lb (442 kg)**	**Fuel Type:**	**77 Octane petrol**
Compression:	**Ratio 6:1**	**Valvetrain:**	**OHC – Overhead Camshaft**
Power output:	**600 bhp (447kW) at 2,600 rpm**	**Cooling system:**	**Liquid-cooled**
Power-to-weight:	**Ration 0.61 hp/lb (1 Kw/kg)**		

Pterodactyl was the name given to a series of experimental tailless aircraft designs developed by Captain G.T.R. Hill in the 1920's after Captain Hill joined Westland Aircraft Limited. Captain Hill wanted to develop a safer design of aircraft that was resistant to stalling and spinning. J.W. Dunne had developed a stable aircraft in the form of a tailless, swept wings version and it was this idea that Captain Hill used as a starting point.

Assisted by his wife, he constructed a prototype which was flown as a glider.

Eventually fitted with a 35hp Bristol Cherub engine. This was later demonstrated to the Secretary of State for Air, Sir Samuel Hoare. From then subsequent examples were funded by Air Ministry contract and built at Westland Aircraft Limited.

A number of variants ensued from the first Pterodactyl I until eventually the last Westland-built Pterodactyl V was of a Fighter design in the form of a Sesquiplane with straight lower wings and tractor propeller. This version was fitted with a *600hp Rolls-Royce Goshawk Engine* and *Two Vickers Machine Guns.*



The Pterodactyl had equal capability to conventional fighters of the day but other issues stopped it going into production however, an Air Ministry Specification F.3/32 for a Two-Seater Fighter Aircraft was issued to Westland Aircraft Limited with serial No. K2770.

Rolls-Royce Engines were an integral part of the era of experimentation with flight. Comprehensive information is available for this period in relation to experimental planes and flight.

References:

Gunston, Bill - World Encyclopaedia of Aero Engines; Lumsden, Alec – British Piston Engines and their Aircraft. Rubbra, A.A. – Rolls-Royce Piston Aero Engines; Sturtivant (1990); Mettam (1970); Lukins (1944); Meekcoms & Morgan; King and Penrose; Westland History.

FOR THE FUTURE:

By arrangement the Museum, following Covid-19 Restrictions as required in the future, is able to offer Guided Tours of the Museum Collection to Groups and Schools.
These tours can incorporate Morning or Afternoon Tea at a nominal rate if required. Other visiting options are available by arrangement.

For any Donations (Items, Memorabilia and Monetary) or further information in relation to the Sir Henry Royce Foundation and the Sir Henry Royce Geebung Museum please do not hesitate to contact Curator Barry Sparks, (07) 3351 6176 or 0432 125 430 to discuss any of the preceding options.

As Curator I am continuously grateful for the generosity of donors and for the support and enthusiasm of the Volunteers. Thank you to all concerned.

Contact Details for the Museum:-

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Sir Henry Royce Foundation Geebung Museum Qld.
Unit 2, 473-475 Newman Road,
Geebung Qld. 4034
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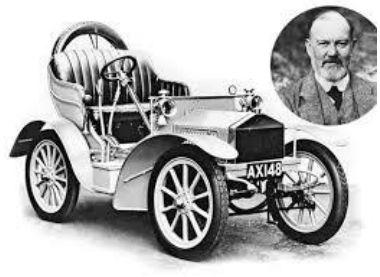
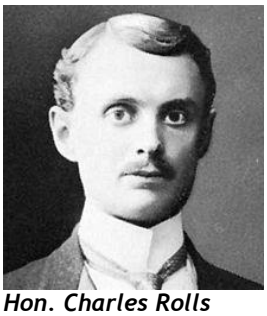
Telephone: 07 3351 6176
Mobile: 0432 125 430
Email: bandasparks@westnet.com.au

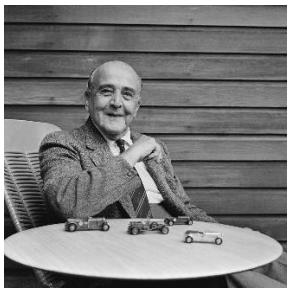
In recognition of the Founders of Rolls-Royce and Bentley that has led to the Sir Henry Royce Foundation Geebung Museum.



Sir Henry Royce & One of his 1st cars



Hon. Charles Rolls



W. O. Bentley