

ARDINGLY IFIELD SOLAR

WELCOME TO THE FIFTH EDITION OF THE ARDINGLY IFIELD SOLAR NEWSLETTER. WE HOPE YOU FIND IT BOTH INTERESTING AND INFORMATIVE!

WRITTEN BY THE STUDENTS OF THE TEAM



**Science, technology and engineering
teacher or team of the year
WINNER**

**Ifield Community
College and Ardingly
College**

#TesAwards



**WHAT'S IN THIS
2021 ADDITION**

*Tie up with A-Ferrari
Progress with flatpack
Up & Coming Events
Where to find us*

A VERY HAPPY NEW YEAR TO ALL



Father Christmas Arriving Pre-COVID

At the Pre-Prep School

I. I. S.
MARANELLO



A-Ferrari

ISTITUTO TECNICO: TRASPORTI E LOGISTICA - COSTRUZIONE DEL MEZZO
ISTITUTO TECNICO: MECCANICA, MECCATRONICA ED ENERGIA - MECCANICA, MECCATRONICA
ISTITUTO PROFESSIONALE: MANUTENZIONE E ASSISTENZA TECNICA
ISTITUTO PROFESSIONALE: INDUSTRIA E ARTIGIANATO PER IL MADE IN ITALY - MECCANICA

Tie Up With A-Ferrari

We are delighted to announce that A_Ferrari has formed a working group to collaborate with Ardingly Ifield Solar on the Flat Pack Solar Car. The "Alfredo Ferrari" Professional Institute was founded in 1963 in Maranello and has a long history of designing and building solar cars. We are hopeful that these links will not only help us by exchanging ideas but also improve on the design and the production of the next solar car. We also hope to exchange students. Our thanks go to Emilia Paderno, Douglas Wragg and Lorenzo Songsare-Shevy for helping to facilitate this.

FLAT PACK PROGRESS



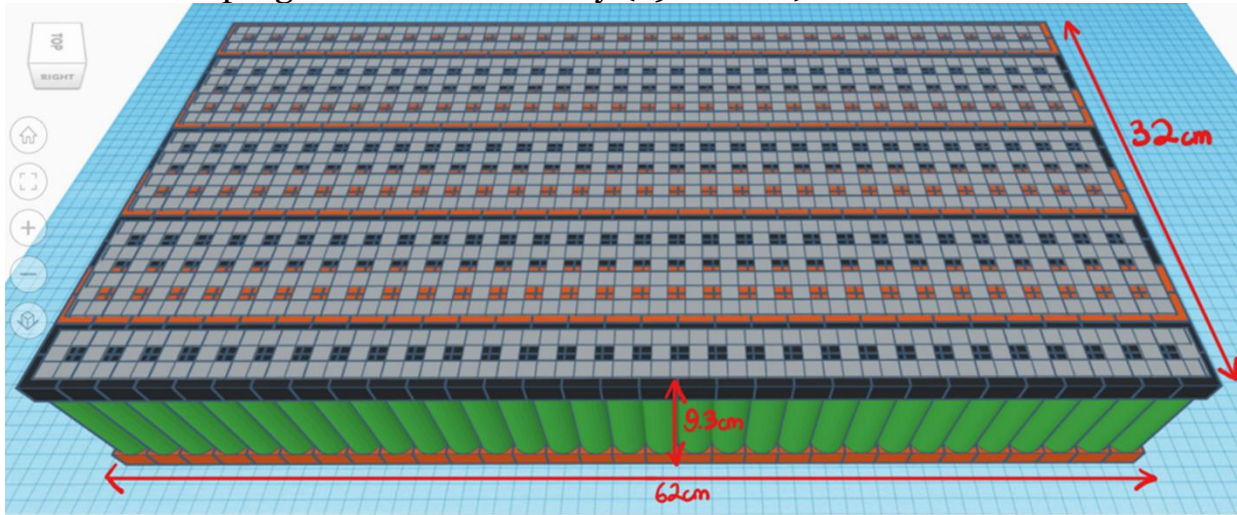
We are making great progress on the new Flat Pack Solar Car on two main fronts:

The **platform** is developing at a rapid rate and a huge thanks to the Ifield helpers on Saturday mornings. It was a very symbolic moment in the strip down when the petrol engine was removed.



We are indebted to the help of Robbie Elliot who has given up a lot of time to help us to have the platform ready for 2021.

The **battery** is coming on and a huge thanks to the help of many students characterizing the 2000 (JLR & WMG) donated cells. This mammoth task is now complete. We have decided to up the voltage of the battery pack to a nominal 134V. This allows us to replicate many of the systems used very successfully on the Basking Beastie. Mark Petrov (year 9) has taken a lead role in developing the 20 kWh battery (1920 cells) and this is a schematic of one of the units.

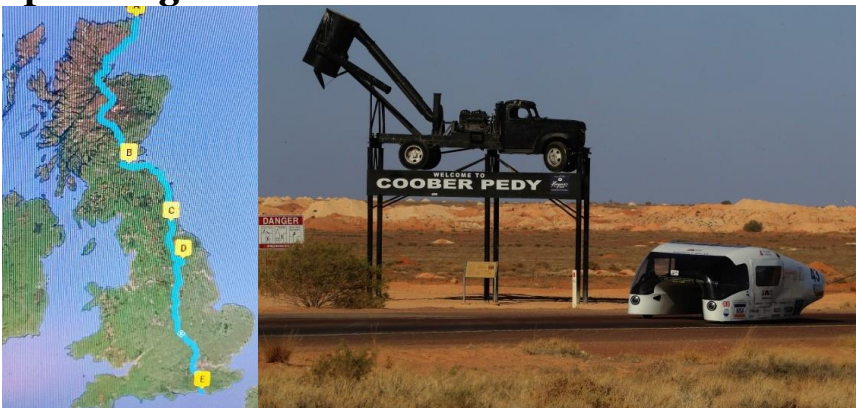


Forthcoming Major Events (Covid Allowable)

Manchester Museum of Science & Industry Green Festival 13th -20th February



John O'Groats to Brighton a trip in the Basking Beastie to promote sustainable transport August 1st to the 10th.



The British Motor Show August 19th-22nd



A possible chance to talk & show our solar cars at the postponed UN conference in November 2022



**UN CLIMATE
CHANGE
CONFERENCE
UK 2021**

IN PARTNERSHIP WITH ITALY



WANT TO GET INVOLVED?

We are always looking for more support. If you are interested in getting involved, get in contact.



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