

**F5J POSTAL** (please open attachment in body of email for spreadsheet)

Bill Kent remains untouchable and on top at this half way stage, whereas Ken Woodward is content to have fun with his Vintage glider and beat a couple of others in the process.

Only five entries hardly makes this event worthwhile but we will see how things pan-out as the weather, hopefully improves. So start practicing!

**<u>E-RES POSTAL</u>** (please open attachment in body of email for spreadsheet.

That man from SA is still leading but there are a few zero scores in the chasers meaning that it's still very open for later when a round is dropped.

Poor entries will lead to an assessment of the viability if things don't improve later.

onthly Glider Postal events, Reports, Futures and other stuff from the Australian Electric Flight Association.

# 1 June/July 2022

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I know, it's boring talking about the weather all the time - but that's what we have to fly in.

The LSF event at Jerilderie has come and gone with record electric entries and cold and breezy conditions. Must have suited the Kiwi's who won and placed well. Congrat's to them.

Elsewhere it's mostly rain, and more rain. I have 420mm in the gauge after four days . Local field was flyable for about two weeks after last deluge now it's a pond again. Similarly this is affecting many others and the participation in the monthly Postals is low as flyers just stay home.

Changing climate? We're standing in it! But Spring will definitely be better. Ed.





An innovative and effective wing from another branch of our sport. Know what it is?

Turbulators anyone?



Brief Report on LSF Jerilderie – Paul Moorfield from very lowly positions. SSL

Queens Birthday long weekend to compete in three Jerilderie), and Mal Pring tenth. glider classes, F5J, Open Thermal, and ERes. The three classes were flown successively in each round, and You can view all the results on Gliderscore.com, and the sequencing, from a practical point of view it See also page 4-Ed worked well. I prefer single class competitions (less shifts for one's brain as a result of flying in multiple So that's a brief wrap on the 2022 Jerilderie event, the classes), but the majority of the participants liked the premier AUS RC glider event. format and voted for the same next year.

There was a strong field of flyers, from SA, VIC, NSW, QLD, WA, TAS, and of course the NZ contingent who provided quality competition. 50 competitors in total, the biggest glider event for a while.

Saturday and Sunday were challenging, strong, gusty south westerly winds, 25-30+kph (fortunately from a very consistent direction) and cold, cold, cold! And very patchy to non existent lift. It was tough. Monday was much better, some sunshine, lighter winds, and some nice thermal activity.

Kevin Botherway from NZ won F5J, with Nick Chabrel second, Mike OReilly sixth, myself fourteenth (after a humiliating fall from fourth in the last 2 rounds flown on Monday).

Nick Chabrel won Open Thermal (which with his F5J result made him the Jerilderie Champion), with Mike O'Reilly in tenth and the rest of the SSL contingent in

Marcus Stent won E-RES, I came second (disconcerting Eight SSL members ventured to Jerilderie over the because I don't think it should be included in

with the excellent Gliderscore programme controlling Mike Oreilly has posted some pics on the SSL FB page.

#### TOP 5. 11-13 June 2022 F5J

- 1. Kevin Botherway
- 2. Nic Chabrel
- 3. Theo Arvanitakis
- 4. Rod Watkins
- 5. David Griffin

### **Open Thermal**

- 1. Nic Chabrel
- 2. David Pratley
- 3. Scott Lennon
- 4. Chris Barrenger
- 5. Matt Lowe

## E-RES

- 1. Marcus Stent
- 2. Paul Moorfield
- 3. Daniel Haskell
- 4. Klaus Metzger
- 5. Scott Lennon



TOP ADVANCED FLYERS, F5J





Got a ding in your carbon wing? It doesn't have to be a throwaway. Remove any debris then make a neat cut -out, top left. Pack out the cut-out section with foam and balsa to regain original wing form. Make a rigid female mold of the section of wing above. You may be able to use the other side good wing as a former.

Flop a carbon male off the female mold, cut to shape and epoxy into wing cut-out, - left centre. Apply any filler as required. Paint to make goodas-new. left.

Contact editor (or others who have done this) for any further details.







# Jerilderie 2022. Thanks Mike O'Reilly

EMF



**Replacing Electric motor bearings.** 

Easter'S AEFA Electric shin-Dig was great socially but a flying disaster for me finished off by damaging my DG-67.

While the damage seemed terminal, once home and over the disappointment of the crash I started to evaluate the damage. A physically damaged battery that is now living in the cold of the back yard and probably never be used shaft drive end. That puts all the weight of the model on again. The metal case is damaged but not puffy.

ployed at fixing machines with motors like our motors, it was always a grey area if a problem was electrical or bear- traption would not work. ings. Was it the magnetics notchy or the bearings?



change the bearings

had three bearings. One at one end and for reasons unknown two at the other (side load - prop support? Ed) 2.5mm wide.

The original bearings were (ID, OD, W respectively) 1/5 x 11 x 5 ZZ & 2/ 5 x 8 x 2.5.ZZ I replaced these two with a 5 x 8 x 5ZZ. I was surprised that the relative low cost at under \$10ea and available from bearing supplies.

Removing the bearings: A simple tool was made, see drawing. The two hooks at the end of the "puller" are easy to make. Bend the wire at a suitable size and then bend two hooks say 10mm longer that required. Grind it down until both hooks will fit together in the ID of the



bearing and they will spring apart.

I did see a tutorial on the Web were a paper clip was used but that technique did not work for me. So I made the contraption in the photo.

By now the motor cir-clip has probably been damaged. Mine was but this is not a problem for me as I use the long the two grub screws - one on a flat.

The motor, that is another question. When I was em- Once the 11mm bearing is removed, on to the small end. The design of the sick motor was such that the above con-

> The next tool is easy having lathe, if not, hopefully some-Commiserating with the one in your club will help. I have attached a drawing with motor and turning it over only some dimensions as they may vary from motor to every now and again the motor. Using my motor as an example there are two dimotor seemed to notch ameters to measure: one is easy with a vernier caliper the more firmly than from other is just a bit tricky. It is necessary to use drill shanks magnets. So I decided to to determine the diameter as it is buried as a stop for the small bearings. Simple design but clever.

Removing the shaft was BE CAREFUL. Clean the drills thoroughly before inserting easy. The bearings were a little more difficult. My motor then into the motor. The magnets are very strong and will suck up swarf faster than a speeding bullet.



**RE – FITTING THE BEAR-**INGS

Fit the small bearing first using the removal tool. This should ensure concentric alignment.

Fit the shaft

In my case fitting the 11mm bearing was very

easy and was a firm push with my fingers. The bearing was a firm push on the shaft. So if it is tight fit in the housing make another tool. See drawing for detail.

Hope this all helps. Yes the DG-67 is almost repaired once over the initial depression.

NOTE: The "ZZ" suffix after the bearing size or bearing number if known means it is a double shield. Do not rob power in model engines or motors with sealed bearings.

Any questions contact me John Quigley flyingnut -ISPtech2u.com.au.



Well the wind was moderate maybe, but it was very cold, like it was straight off the South Pole -- Cold!!. Thermals were there but elusive at times. However nearly every heat was flown for the close to 10 minutes.

We flew 10 rounds of two heats per round which kept everyone under the pump.

Thank you to the plucky eight that came and thank you for your help in set up, especially Garry. Our new trailer was in action and proved to be very useful. It was great not to have to double handle the equipment to get it on and off the field. I chose to keep the electronics in the trailer which meant if we got any rain I could just close the door. As we trial it, we will make some mods to make it very efficient and adaptable. We still have an awning to mount and firefighting spray mounts. Robert Gunn

[SSL Sky Park 3/07/2022] www.GilderScore.com														
Rank	Name	Score	Pcnt	Raw Score	Rnd1	Rnd2	Rnd3	Rnd4	Rnd5	Rnd6	Rnd7	Rnd8	Rnd9	Rnd10
1	MEYER, Andrew	8899.1	100.00	9644.3	1000.0	995.6	1000.0	1000.0	*745.2	1000.0	1000.0	1000.0	1000.0	903.5
				Time Height Landing Over75m	9:49 207m 50	9:57 160m 45	9:54 164m 35	9:56 202m 50	8:11 160m 0	9:59 198m 50	9:57 184m 35	9:57 184m 50	9:57 170m 50	8:54 194m 50
2	STONE, Mark	8154.8	91.64	8710.4 Time Height Landing Over75m	662.2 8:45 244m 50	1000.0 9:57 145m 40	1000.0 7:03 153m 50	*555.6 5:36 172m 50	934.1 9:56 192m 10	1000.0 9:58 163m 35	976.4 9:53 199m 45	891.9 9:55 200m 0	690.2 7:27 152m 0	1000.0 9:54 190m 40
3	WHITFIELD, Garry	7969.3	89.55	8466.6 Time Height Landing Over75m	1000.0 9:28 171m 50	1000.0 9:52 139m 30	*497.3 5:43 142m 0	685.2 9:11 227m 0	1000.0 9:56 189m 50	711.7 6:52 139m 50	1000.0 9:59 195m 50	994.6 9:59 194m 50	834.4 8:10 173m 45	743.4 7:22 186m 45
4	MELDERS, Peter	7628.2	85.72	8243.2 Time Height Landing Over75m	853.3 9:11 208m 15	844.3 8:46 179m 30	691.0 5:43 203m 40	805.1 9:51 215m 0	969.2 9:53 197m 40	908.2 9:55 191m 0	863.1 9:56 220m 40	1000.0 8:12 197m 30	694.0 7:38 196m 30	*615.0 6:26 189m 40
5	KENT, Bill	6767.7	76.05	7228.8 Time Height Landing Over75m	859.1 9:06 212m 35	760.2 8:21 162m 0	731.3 8:13 186m 0	929.6 9:51 207m 45	625.5 7:16 189m 0	651.0 6:46 184m 45	*461.1 4:57 196m 50	716.6 6:15 193m 25	1000.0 9:30 165m 50	494.4 6:04 195m 0
6	POTTER, Greg	6485.7	72.88	6485.7 Time Height Landing Over75m	484.5 5:31 146m 0	0.0 0:00 0m 0 Yes	959.8 9:55 190m 25	1000.0 9:58 168m 40	1000.0 9:55 178m 40	315.5 4:25 183m 0	875.8 9:52 203m 0	850.1 6:31 132m 35	*0.0 0:00 0m 0 Yes	1000.0 9:50 200m 40
7	PRING, Mai	5952.8	66.89	6235.8 Time Height Landing Over75m	606.6 6:55 184m 0	707.7 7:40 191m 35	832.3 6:16 182m 45	674.2 6:59 181m 45	965.5 9:52 189m 35	388.0 4:30 192m 40	679.6 6:57 190m 45	583.8 6:45 182m 10	515.1 5:29 179m 50	*283.0 3:45 160m 5
8	BOWDEN, Gavin	3988.6	44.82	3988.6 Time Height Landing	791.5 8:06 199m 35	984.6 9:39 150m 40	543.5 4:51 151m 0	0.0 0:00 0m 0	0.0 0:00 0m 0	*0.0 0:00 0m 0	326.9 4:04 165m 15	66.1 0:49 42m 0	693.0 7:19 193m 30	583.0 6:43 203m 15

Manilla, NSW

Cootamundra

5J - Overall Results

July			
3-Jul	SSL Club Event	F5J Glider	Milang
23-24 July		OLD F5J Series 2022 Round 3	Monto
August			
14-Aug	SSL Club Event	F5J Glider	Milang
21-Aug		HSL Winter Club Competition	HSL Maddens Plains
September			
10-11 Sept	Tamworth Club	E-RES & LEG	Sommerton
10-11 Sept		QLD F5J Series 2022 Round 4	Dalby
11-Sep	SSL Club Event	F5J Glider	Milang

		-	
October			
9-Oct	HSL Event	Heathcote Cup F5J	Maddens Plains
		F5J Annual Tournament -	
28-30 Oct	<b>AEFA F5J Perpetual Trophy</b>	World Champs Team	West Wyalong
		Selection Trial	
30-Oct	SSL Club Event	F5J Glider	Milang

Manilla Slopefest

Millennium Cup

Mount Bora

State Flying Field

Contributions, including Classifieds, welcome to Mel Gillott at redshiftxyz@hotmail.com

## \*\* Electro Motive Force

2-18 Sept

24-5 Sept

EFA CALENDAR 2022

**1.** a) E=W/Q. b) *Inside* a source of emf that is open-circuited, the conservative electrostatic field created by separation of charge exactly cancels the forces producing the emf. c) Electromotive force is the characteristic of any energy source capable of driving electric charge around a circuit.

**2**. A force, metabolizing as a passion to get airborne in a more environmentally responsible way without unduly disturbing other humans or the wildlife by using only the power of electro (not Max Dillon) and nature.