



HOLDFAST BUZZ

HMAC proudly sponsored by

modelflight RC

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General Meeting

Friday 2nd December
at 7:30 pm in the
Clubrooms, regarding
Club By-Laws



Club President Geoff Haynes (L) was awarded Honorary Life Membership of the Club at the Annual General Meeting held in August this year. Geoff is a tireless worker and has introduced many initiatives in the Club since joining us in 2003. He is shown above receiving the plaque from Secretary Kingsley Neumann

The HMAC newsletter is your vehicle for sharing information, experiences, building projects, etc. with your fellow members. If you have photos of your latest model, a construction in progress or handy tip you'd like to share, please send it to The Editor at buzz@holdfastmac.asn.au for inclusion in a future edition of BUZZ.



Geoff Haynes

"During the windy/rainy periods it's handy to have a flight simulator at home to maintain your flying skills"

From the President

We haven't had much luck with the recent weather conditions for flying, but hopefully they will improve as we move into Summer. During the windy/rainy periods it's handy to have a flight simulator at home to maintain your flying skills. Keep in mind that this can be done relatively inexpensively and there is a useful link to flight simulation on our website at www.holdfastmac.asn.au/simulators, where you can even download the actual HMAc flying field scenery for use in the simulator.

The Annual Buy & Sell Day was held on November 5th and drew a good crowd. With the sale of donated items, food and raffle tickets, the Club netted more than \$2,000 – an excellent result. Our thanks go to those who helped with the preparation that went into making the event so successful.

Christmas is fast approaching and I expect many of you are making plans for the celebration with family and friends. Thank you to everyone who has booked for our Christmas Lunch and Award Presentation at Club Marion this year. We don't have to worry about the weather, there is nothing to clean up afterwards and it

is shaping up to be an enjoyable social event.

The 2022 competition season has ended and I would like to thank all who participated this year, both HMAc members and those from other Clubs. The Winners will be presented with trophies at the Christmas function. It would be great to see more participation in these events in 2023, including the addition of some Fun-Fly activities that are focused more on enjoyment than pure competition. If you have a suggestion for a fun-oriented activity, we'd love to hear from you.

You will no doubt be pleased to know that the Department of Environment and Water has accepted our request to extend the lease on the field for a further 10 years. Of course, we must continue to demonstrate that our sport poses no safety threat to others, so please ensure that you always observe the Club Rules for safe flying. It only takes one serious incident to put our tenure in jeopardy.

Merry Christmas to all and happy flying!

Geoff Haynes
President



*Citation for nomination of
Geoff Haynes as an
Honorary Life Member of
HMAC*

Geoff Haynes at Holdfast Model Aero Club

Geoff became a Member of Holdfast Model Aero Club in August 2003, nineteen years ago. He immediately impressed the instructors of the day by demonstrating that he could fly an RC plane quite competently despite never having had any formal instruction. He had taught himself to fly at home on his PC Flight Simulator.

Geoff quickly passed his Solo flying test and settled down as an active Club Member attending Club meetings regularly. We soon discovered that Geoff had high level IT skills. He saw that our website needed an overhaul, and he was authorised to introduce and manage the extremely comprehensive and professional site that we are still enjoying today.

Geoff was elected to serve on Committee by 2010 and has served in various capacities ever since. By 2012 he was the BUZZ editor and created a very smart looking publication as the Club moved forward into the electronic age.

Around 2015 Geoff, along with the late Ross Lloyd, was the driving force behind the introduction of a unique Flight Training concept for HMAC. This clever idea encouraged potential new Members to come and try their hand at flying RC planes using Club owned models and radios under the supervision of Club Instructors. After four visits the students were required to join the Club in the usual manner and continue to train using Club equipment right up to the graduation flight test. This proved very successful, eliminating many of the problems and disappointments previously experienced by novices. Of course, Geoff in his entrepreneurial manner achieved a sponsorship agreement with Model Flight setting the standard with the stabilised electric powered Apprentice Models and Spektrum radios. Geoff coined the name LIFT for the Low Cost, Integrated Flight Training program which has proven so successful for the Club. Geoff gained his Gold Wings and Instructor ratings and became deeply involved in Flight Training, including tutorials for Members who wanted to learn more about their radios.

Geoff has a keen interest in all things technical and electronic. He set up the secure Google Workspace system for the Committee, installed a live webcam with a weather station and security cameras at the field for the benefit of all Members and arranged a smart answering system on our club phone number which automatically creates email messages from caller's voicemail messages.

Geoff became Treasurer in 2018 and introduced clear and concise bookkeeping and reports for which we are forever grateful. He has continued in that role for the statutory five years.

Geoff, together with our late Secretary Ian Faulkner was instrumental in seeking out monetary grants for building improvements and the money saving solar panels

There are so many more activities within the Club that Geoff has dived into such as sponsorship deals, fundraising methods, management of saleable items via the website – almost too many to name. I must apologise if I have missed some, but I am sure others will have more to add.

It gives me great pleasure to nominate Geoff Haynes as a Life Member of Holdfast Model Aero Club.

Kingsley Neumann

Secretary 5th August 2022



John Jefferson

"Annual Trophies for 2022 will be presented on December 11th"

Covid is still with us!

Beware of the Sun!

Pylon Racing Results

6th November 2022

Open class pylon

Tom Jacobsen (Noarlunga) 106
Graham Paterson (HMAC) 90
Greg Leigh (Noarlunga) 86
Pete Robertson (HMAC) 78

Standard class pylon

Bryan Christie (HMAC) 75
John Jefferson (HMAC) 75

Electric class pylon

Trevor Pearce (Connie) 96
Greg Leigh (Noarlunga) 84
Dave Whitten (HMAC) 63
Craig Spratt (Connie) 62

It is pleasing to see that our friends from CMFC and NMAC continue to visit HMAC and provide strong competition to our pilots. Annual Trophies for 2022 will be presented on December 11th

Combat Flying has only been supported by a couple of pilots in 2022, namely Barry Grivec and John Jefferson. Insufficient rounds were flown to constitute a valid contest but we expect that this exciting event may be revisited in 2023.

Thanks go to all the helpers and particularly to Kathy Paterson and John Jefferson for their outstanding contribution

-Buzz editor



HEALTH WARNINGS

1. COVID. It is still out there! We have had two persons report recent infections. There is no suggestion that it came from HMAC activities but the fact is the virus can still get you even if you are vaccinated. Please observe safe distancing. Wash your hands with sanitiser. Wear a mask if you wish
2. SKIN DAMAGE. We are involved in outdoor activities and summer is with us, although it doesn't seem like it on some days. The sun can do incredible damage to your skin and cause cancer. Andy Hollitt has had a close call recently and would like to remind everyone to use sunblock cream, a wide brim hat and long sleeves. Andy has given us permission to use his photograph. Andy will be OK.





John Jefferson

"Holdfast Model Aero Club has a responsibility to ensure a safe environment for its members and that flying of model aircraft is undertaken in a safe manner"

Holdfast By-Laws

There are rules and regulations for just about everything in our everyday life. One of the main reasons for having rules is to ensure there is a structure to meet society expectations of being in a safe environment, whether at work or in a public place. Accordingly, Holdfast Model Aero Club (HMAC) has a responsibility to ensure a safe environment for its members and that flying of model aircraft is undertaken in a safe manner.

So, when was the last time you read the HMAC By-laws? Are you aware of your responsibility to comply with those by-laws? Let's have a look at some of those requirements. Key extracts are outlined below.

Basic Rules

Flying of radio controlled models within Australia is required to comply with regulations whereby the model is:

- Not flown in a way that creates a hazard to full size aircraft, another person or property.
- Flown with visibility that allows it to be continuously kept in sight.
- Not flown at a height greater than 400 feet (120 metres) above ground level.
- Not flown at night except in accordance with Model Aeronautical Association of Australia (MAAA) Manual of Procedures (MOPs).
- Not flown closer than 30 metres to people not involved in the operation of model aircraft.

Flying Standards

- HMAC follows the MAAA guidelines for the Award of Wings (MOP027), with the addition of a unique "Solo Standard" prior to Bronze or Silver Wings.
- Holders of Solo Standard are only permitted to fly those models authorised in their Club Logbook.
- On obtaining Bronze or Silver Wings standard there is no restriction on models flown, except for normal MAAA weight restrictions for the particular Wings award.

Flying Training

- Flying training is conducted on Sunday mornings from 10:00 am until 12:30 pm with rostered instructors in attendance.
- General flying is not permitted on Sunday morning.

No Fly Zones

- There are defined No Fly Zones; a map showing these zones is attached to the whiteboard inside the main shelter behind the pits area.
- Great care must be taken to avoid flying over Majors Road and Lonsdale Road.
- Models must not be flown west of a line joining the flight line to the radio masts just east of the water tank.

The Flight Line

- When operating radio controlled models from the flight line pilots should stand behind the protective barriers.
- Take-off, landing or flypast should never be closer than 10 metres to the flight line.
- Landings and take-offs must not be made directly towards the flight line or the pits.

Holdfast By-Laws (continued)

Taxiing inside the pit area is prohibited.

Models must be restrained when starting the engine or electric motor.

Engines/motors must not be started under the shelters.

A green ribbon Safe Tag which ensures the battery is not connected to the speed controller must be used to show an electric powered model is not armed.

Prior to take-off, if there are other aircraft flying, the pilot must call out "ON THE FIELD" or "TAKING OFF".

If an engine fails in flight the pilot must call out "DEAD STICK" to alert other pilots who must give priority to the unpowered aircraft.

Before landing the pilot must call out "LANDING" and include the direction of landing unless it is obvious to all. A landing aircraft has priority over departing aircraft.

If there is more than one aircraft flying, pilots must conform to an agreed circuit pattern (left or right).

First Person View (FPV) and Self Guided Model Aircraft (SGMA)

Any pilot flying aircraft of this type must comply with MAAA MOP066 FPVs and SGMAs.

The basic rule is that the observer must have the knowledge to operate the Remotely Piloted Aircraft (RPA) and is responsible for the safety of its operation. The aircraft must be kept in visual line of sight of the observer at all times independently of any electronic viewing devices.

Noise Policy

All powered model aircraft are subject to noise limits at HMAc. The noise level as recorded by a noise meter must be no greater than 96 dBA.

Internal combustion (IC) engines are restricted to operation between the hours of 10:00 am and 7:00 pm.

There is no restriction on the operation of gliders or electric powered models; however some ducted fan jets may be subject to the same restriction as IC models.

Incidents and Crashes

EDITOR'S NOTE: This section is under review and amendments will be presented at a General Meeting of the Club scheduled for December 4th. All Members will be advised of any changes

So there you have it, common sense rules which are to the benefit of all club members. The HMAc By-laws document goes into greater detail and it's highly recommended you refresh your memory and read it in full.

Happy and safe flying at HMAc!



You will enjoy this article by our ever creative Andy Hollitt. It tells the story of the evolution of a giant "scale" model of a model. And it flies like a dream!

CHUB

By Andy Hollitt



Chub' is a scale model! Whereas model aircraft are usually 1/3 or quarter scale, Chub is roughly twice the size of a 1M span EPP model called 'Slowly' that was posted on RCGroups and so I guess it's twice scale! Terry Gold had built and flown an original EPP 'Slowly'.

<https://www.rcgroups.com/forums/showthread.php?1686460-Sowly-A-magnificent-Land-and-Lake-Build>

I already had the wing from a previous model called 'The Beast' (used for aerial photography with a substantial camera mounted on the nose). 'Slowly' appealed to me as being kind of cute and so I decided to build the model as a caricature, larger, fat version of a Piper Cub, hence the name 'Chub'.

I bought a slab of 2" styrene foam from SA Ceiling Supplies and marked out the guppy fuselage with a Texta in their car park. They then cut out the shape using a hot wire foam cutter. The big block of foam wouldn't be strong enough by itself, so I reinforced it with balsa wood and plywood using water-based contact adhesive. I made servo mounting plates from plywood and epoxied them to the foam. I then gave everything a mist coat of spray adhesive (I find it helps to stick the film) and ironed on the 'Cub Yellow' film. Fortunately, HobbyKing covering film is cheap, as I used a lot of it!

The tail feathers presented a problem. I considered a framework made of 1/4" balsa, sheeted top and bottom, but that would require a lot of balsa wood and the stuff is very expensive these days. I felt that Corflute is floppy and too heavy. Fortunately, I found a cheap solution at Bunnings. Flat double surface polycarbonate roof sheeting was cheap, stiff and reasonably light. So, I marked out the fin, horizontal stabiliser, elevator and rudder and cut them out using my table saw and a sharp knife. I inserted a carbon fibre rod to stiffen the horizontal stabiliser and the fin is braced to the horizontal stabiliser with carbon fibre rods. The fin and horizontal stabiliser are notched and glued together using Selleys 'All Clear' adhesive, great stuff. Again, I gave the tail feathers a mist coat of spray adhesive before covering them. Large pin hinges were used for the rudder and elevator. The tail assembly is attached to the fuselage using 4 screws going in to 1/2" wooden dowels, epoxied into the foam.

The motor is a Turnigy C4250 turning a 14 X 7 prop, running on 4S 3000 and a 55A Turnigy Trust ESC. I made the motor mount from 2mm aluminium and attached it to the fuselage using 4 screws in to wooden dowels, epoxied in to the fuselage. The cowl is .5mm aluminium sprayed with contact adhesive, covered with iron on film, secured with Velcro and covered with film.

The main undercarriage is a length of 1/4" fibreglass rod and 5" Wheels. A Dubro steer-

Chub (Continued)

able tail wheel assembly is mounted at the rear and is actuated by a servo mounted on the bottom of the fuselage running pull-pull braided stainless steel fishing wire. It works very well, but only in calm conditions, as there are no ailerons to kill lift on the windward side while taxiing.

I decided to use exposed pushrods made from polished aluminium to give it that 'look'. The CG was too far aft, so I fitted a 200gm block of lead to the nose, cleverly disguised as a radiator. Geoff Haynes kindly 3D printed 4 Cylinders that I mounted to the cowl, and I also fitted a 3D printed supercharger on top, to give it that scale 'look'. I fabricated exhaust stubs from aluminium tube with the P51D Mustang in mind. I decided headlights were necessary in case I wanted to fly at night. Mudguards were made from aluminium, covered with film and mounted to aluminium arrow shafts.

I decided a pilot figure was necessary and used Otto the auto pilot from Flying High, hopefully he doesn't deflate! A couple of 6" Cub decals were bought off eBay to mount on the fin and a friend vinyl cut the rego number 'VH-CHUB' for the wing.

The test flight went very well. As it doesn't have ailerons, I was unsure how well the plane would 'turn', however the large rudder and polyhedral wing worked great. Pitch was excessive and I reduced the throw and added exponential. I found that 'Chub' does nice tight loops. Although it can fly very slowly already, I'm planning on fitting split flaps. With a bit of wind, I'm hoping to fly from one end of the field to the other.... backwards. Plenty of power, a distinctive look and a very low wing loading make this model fun to fly.



The inspiration—an indoor foamie called "Slowly"



A nice bit of 3D printing for the engine—G Haynes



The familiar figure upfront is "Otto" the inflatable auto pilot from the movie Flying High



4s Lipos driving a 14x7 prop on a Turnigy motor



UPCOMING EVENTS

General Meeting

Friday 2nd December
7.30pm at Clubrooms

Trophy Day Luncheon

Sunday 11th December
at Club Marion
(Bookings now closed)

Committee Meeting

Tuesday 17th January
(To Be Confirmed)

Pylon Racing

Sunday 5th February
2023

HOLDFAST MODEL AERO CLUB

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Newcomers to r/c modelling are catered for by setting aside every Sunday morning from 10 am when qualified instructors will teach all aspects required for the safe operation of the model. During the training period no other models are allowed to fly, ensuring the least possible distractions to the student.

New Members

The Club extends a warm welcome to :

Andrew Paine

We trust that you will enjoy the facilities at Holdfast and have a great time flying RC

Instructors and Assistants

Members please note that we have two Instructors rostered on a Sunday. The roster is published on our website. Instruction is cancelled if the windspeed is expected to be above 20 kph or temperature is above about 35C. Midweek instruction by arrangement continues. If you have Gold Wings you might like to try out as a Club Instructor. Please let the Secretary know.

Flying Achievements

Name	Wings	Instructors
Mike Malone	Bronze (P)	Graham Paterson, John Muckalt

modelflight **RC**



Blade 230 S RC Helicopter

RTF Basic

\$529.99

E-flite Opterra 2.0m Flying Wing

BNF Basic

\$429.99



Seagull Models Boomerang 40 RC Plane

Balsa Build Up Kit

\$309.99



E-flite Turbo Timber Evolution RC Plane

BNF Basic: **\$649.99**

The E-flite Turbo Timber Evolution 1.5m is the most convenient, capable, and durable version of the popular STOL-capable model yet. Upgrades including a top-mounted hatch, stronger gear mounts, Smart electronics and more, make it better than ever!



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