

QUEENSLAND ULTRALIGHT ASSOCIATION

SEPTEMBER 2008 NEWSLETTER

Watts Bridge Memorial Airfield, Silverleaves Road via Toogoolawah, Qld

Sponsored by : ACOUSTIC TECHNOLOGIES

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The **Piper Cub** certainly needs no introduction to aviation enthusiasts world wide. Since its introduction in the mid 1930's, thousands were built in the next decade with production continuing into the 1980's. Along the way, performance improved as the design was developed. This process continues today as companies such as **Cub Crafters** work at keeping the older examples flying and producing new Cub kits and production aircraft. Our aircraft of the month is the new Carbon Cub kit plane produced by Cub Crafters in the USA. For local pilots, a vintage **L4 Cub** from WW2 is available for tail dragger training and hire from Caboolture Recreational Aviation. Alternatively a very low time 1945 **J3 Cub** is for sale at Watts Bridge by Shane Winter. Other local companies, such as **M.E.L.T.** Aviation sell the 75% scale **Cubby** two seat replica from South Africa. The Cubby can use a Jabiru 2200 engine to give reasonable performance similar to the original **J3 Cub**. Other **Cub** replica kits and plans are also available for this popular, almost ageless design.

VALE --- Mike Altria. It is with sadness we announce the passing of Mike due to an undisclosed illness in August. Members will remember Mike as a quietly spoken person who was supportive of the goals of the QUA Inc. At meetings Mike would share of his interest in flying and sailing. In the past Mike had owned an X-Air F model aircraft. Our sympathy and condolences are extended to Margo and her family and friends.

THE NEXT QUA MEETING IS ON MONDAY 1st SEPTEMBER AT THE SAAA CLUBROOM AT ARCHERFIELD AERODROME, WITH A LIGHT SUPPER AFTER THE MEETING. ALL QUA MEMBERS AND INTERESTED PERSONS ARE WELCOME TO JOIN US FROM 07.30pm

AIRCRAFT OF THE MONTH

CARBON CUB REPLICA KIT BY CUBCRAFTERS



The **Carbon Cub** is the modern day Super Cub. It is manufactured using precision CNC machining equipment and lightweight composite materials. Combine this with it's stronger, simpler design and you have an airplane that will takeoff shorter, fly faster, and land shorter than the venerable Super Cub ever did. It is nearly 200 Lbs lighter than an equivalent Super Cub due to it's modern aluminum wing structure and it's completely redesigned fuselage. This results in awesome take-off and landing performance and higher payloads. The much cleaner cowl and streamlined fuselage can result in 140 MPH or more in cruise. It is also much easier to get into and out of because of the redesigned, much larger and wider door. The Carbon Cub is assembled as an Experimental Amateur-Built aircraft by the builder. Engines, mounts, and cowlings are available to support engine installations ranging from the 100 Hp Continental for the LSA "eligible" model to a fire breathing IO-360 Lycoming for the adrenalin challenged. The Carbon Cub flown at the Valdez STOL contest in 2007 took off there in **NINETEEN FEET** and took home the first place prize. You decide what you want. A nimble delightful aircraft legal to fly as a "Light Sport" pilot, or a "Monster Cub" with a power to weight ratio nearly that of a helicopter! The choice is yours!

The kit is complete down to the nuts, bolts, and washers needed to assemble it. The use of composites and modern manufacturing techniques have allowed us to reduce the number of parts in a Carbon Cub kit to half those of a Super Cub, so the build time is also cut in half. A first time builder should be able to have the entire airframe (wings, tail, and fuselage) ready to cover in about 120 hours. Yes, that is three weeks of your time!

With a Lycoming 160 Hp engine installed the Carbon Cub can weigh as little as 925 Lbs. This results in landing speeds of 29-31 MPH depending on technique. With the high gross option, this results in a useful load of 840 Lbs, or full fuel, full baggage, and two 225 Lb pilots with some room to spare! With the Continental 100 Hp installed in the LSA model, the empty weight will be as little as 845 with a gross weight of 1320, leaving 475 Lbs useful load. With this engine installed the airplane will be airborne in as little as 185 feet and burn 4 to 5 gallons per hour at the normal power settings. For personal transportation it is hard to beat performance like this!

We offer only our "**fast build**" kit. You should be able to be ready to cover the plane is as little as 120 hours from the time you begin. Covering will take from 150-300 hours depending on your skill level and experience, and then all you will need to do is assemble the parts. The builder is legal to fly the **CARBON CUB** as a "light sport" pilot as long as the kit is certified at a maximum weight of 1320 Lbs. Our standard kit was tested to ASTM standards at a gross weight of 1430 Lbs, and our high gross kit was tested to 1865 Lbs. If you decide to build to the high gross limit, you will not be allowed to fly as a "Light Sport" pilot, and will need a medical and a private pilots license.

AUSTRALIA ISSUES TYPE CERTIFICATE FOR THE CC18-180 TOP CUB

CubCrafters is pleased to announce that the **CC18-180 TOP CUB** has received Type Certification from the Civil Aviation Safety Authority in Australia. This certification allows new, certified, ready-to-fly **CC Cubs** to be delivered to customers in Australia for the first time ever. The **CC18-180** was certified in the US in Dec. 2004, and has now been approved on floats and wheels in Canada and Australia as well.

With a useful load of 1100 lbs and its combined versatility and utility, the **TOP CUB** is the ideal vehicle for work or recreation in Australia. The optional Wipline 2100 Amphibious Floats make even the most remote hunting and fishing destinations available for pilots of this modern “Cub”. Tundra tires in sizes of up to 35” are approved, and the optional cargo belly pod allows numerous options for up to 350 Lbs of cargo in addition to two people and full fuel.



ABOUT CUBCRAFTERS

CubCrafters, founded in 1980 by current owner and Chairman Jim Richmond, is located at Yakima Air Terminal/McAllister Field Airport (YKM) in Yakima, WA. CubCrafters’ roots are in the 60 year history of classic ‘taildragger’ aviation, but its products and services - New aircraft, CAD-based design and engineering, CNC tooling and fabrication, Lean-manufacturing, and Award-winning tube and fabric aircraft restoration - are leading edge.

CubCrafters offers two all new, FAA-certified, ready-to-fly, aircraft: the second generation **SPORT CUB S2**, the follow on airplane to the original **SPORT CUB**...the long awaited redesign of the classic airplane that inspired the light sport category; and **TOP CUB**, the most capable two-place personal and utility aircraft. In 2008, CubCrafters announced the availability of the **CARBON CUB KIT**...the lightest, most complete, and best engineered Cub kit available. In early 2007, CubCrafters was issued only the second FAA ‘Production Certificate’ in the state of Washington, and is now the only U.S. aircraft manufacturer producing and delivering both standard and LSA category aircraft under an FAA-approved quality assurance program. In 2007, CubCrafters produced a combined-model total of nearly 100 new aircraft.

CubCrafters, under the banner CubCrafters Services, is the recognized authority for re-building and modifying PA-18 Super Cubs and similar aircraft, and it stocks a broad range of STCs, PMA’d parts and modification kits for the existing fleet. In 2007, more than 120 aircraft passed through CubCrafters Services for rebuild, repair, modification or routine maintenance.

For more information about these Cub replicas, visit www.cubcrafters.com.

SOCIAL CALENDAR

- August 28th – 31st** **Festival of Flight** Vintage Fly-in and Annual Dinner at **Watts Bridge**.
See www.qvag.org.au or contact Craig Justo on 0407740734
- September 1st** **QUA Inc General Meeting** at the SAAA Clubroom at Beatty Road, Archerfield Aerodrome, from 07.30pm with a light supper afterwards. The Annual General Meeting is planned for this meeting also.
- September 6th** **Aircraft Design Course** by **Bill Whitney** (Reg 35 Engineer)
The course starts at 9.00 am and finishes at around 4.00 pm.
The venue is **St Philip's Church Hall** on **Cornwall Street, Annerley**.
Cost is **\$65.00** which includes a light lunch. Pensioners / students **\$40.00**
- September 5-6th** **THE BIRDSVILLE RACES**
This tiny outback town of Birdsville has its busiest two days in September
This is a great event to get a taste of Ozzie Outback life
For more info goto <http://www.birdsvillerraces.com/ForVisitors/FAQ.htm>
- September 12-13th** **BEDOURIE RACES** Celebrate 50th anniversary of Bedourie Races
Weekend begins with a rodeo on Friday night and race program starting on Saturday. Entertainment Saturday night/ country singer Steve Forde
Contact Diamantina Shire Visitors Centre 1300 794 257
- September 14th** **FLYIN BREAKFAST AT GUNDY** (Goondiwindi)
7:00 AM start for breakfast at the McIntyre Aero Club at the Airport.
10:00 AM start for the 10th anniversary Gourmet in Gundy Festival.
Contact Paul or Margaret PSS@bigpond.com.au or 0427 063 693
- September 20th** **AVIATORS BREAKFAST** (Warwick)
Warwick Aero Club Inc is hosting an Aviator's Breakfast at YWCK
0700 start BREAKFAST/ ALL WELCOME AVGAS available
Contact Phil Goyne 07 4666 1676 phil.goyne@bigpond.com
or Rob Behrend 0429 332 225 or Gus Mauch 07 4664 8255
- September 20th** **Dunwich on Stradbroke Is Breakfast Get Together**
09.00 am Breakfast at \$10.00 per head, thanks to the airfield owner Pat B.
Contact Hugh Ragg on 0412299403
- September 26-28th** **Coffs Harbour Airshow 2008**
Friday 26 aircraft arrivals/ trade displays/ camping
Saturday 27 main airshow/ public access day
Sunday 28 aircraft departure/ joy flights
Contact Coffs Harbour & District Aero Club 02 6652 2992
Or see www.coffsharboursaeroclub.com
- October 04-05th** **The Amberley Airshow**
Contact Air Commodore Des Long on 08 83961406
- October 18-19th** **Museum of Australian Army Flying Fly In**
Rotors Wings n Wheels n Possums
Contact Helen Dawden nedwab@bigpond.net.au

QUEENSLAND ULTRALIGHT ASSOCIATION

MINUTES OF JULY 2008 GENERAL MEETING

MEETING OPENED	10.28 am														
APOLOGIES	Allen Mellow, Neil Bowden, Ian Ratcliffe, Neil McNamara														
VISITORS	Cythia Fowler, Avril Grayson, Ernie Clark, Priscilla Smith														
PRESIDENT'S REPORT	<p>Just returned from Oshkosh, which is a real eye opener. Thank you to Richard and Glenda for your help at the Poker run. Thanks to those who attended. It was a good day. More work needs to be done on the clubhouse. Electrical, plumbing and fitting of the tanks is planned in the near future. September's QUA General Meeting and the AGM is to be held at the SAAA Clubroom at Archerfield on September 1st.</p>														
TREASURERS REPORT	<table><tr><td>Opening Balance.....</td><td>\$6,194.33</td></tr><tr><td>Plus Deposits.....</td><td>\$3,928.13</td></tr><tr><td>Debits.....</td><td>\$8,298.82</td></tr><tr><td>Closing Balance.....</td><td>\$1,823.64</td></tr><tr><td>Plus Un-presented Cheques.....</td><td>\$2,472.31</td></tr><tr><td>Less Outstanding Deposits.....</td><td>\$ 510.00</td></tr><tr><td>Balance on Bank Statement.....</td><td>\$3,785.95</td></tr></table> <p>The tax paid on the termination of the term deposits has been refunded by the ATO. Several new memberships have been received. \$5.00 is asked to cover today's BBQ.</p>	Opening Balance.....	\$6,194.33	Plus Deposits.....	\$3,928.13	Debits.....	\$8,298.82	Closing Balance.....	\$1,823.64	Plus Un-presented Cheques.....	\$2,472.31	Less Outstanding Deposits.....	\$ 510.00	Balance on Bank Statement.....	\$3,785.95
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SECRETARIES REPORT	<p>A few emails received. I have had some contact with Scott Williamson, who submits articles and photographs to various aviation magazines. Scott is also organizing a prize for the best homebuilt aircraft at the next Festival of Flight Fly-in. This is in conjunction with Pacific Flyer Magazine. Scott has also submitted a news snippet regarding the QUA Clubhouse at Watts Bridge to Pacific Flyer. With sadness we report the passing of QUA member, Mike Altria due to an undisclosed illness. Our condolences to Mike's family and friends. A wreath will be sent to his wife, Margo.</p>														
WATTS BRIDGE REPORT	<p>The new toilet block is working including the lights. Festival of Flight Fly-in is on August 30th and 31st. Compliance issues with the petrol bowsers need to resolved, Repairs to the gates have been done. The water tank for the new toilet block has been ordered.</p>														
SOCIAL DIRECTOR	Questions were raised about fundraising and the supply of cloth QUA badges. We need to look at ways to promote the QUA Inc.														
GENERAL BUSINESS	A Working Bee is planned in September to do a clean up of the hangar and clubhouse areas.														
MEETING CLOSED	11.15 am.														

DESIGN YOUR OWN AIRCRAFT COURSE

Bill Whitney (Reg 35 Engineer) is again running his **Aircraft Design Course** that covers most aspects of light and ultralight aircraft design. The seventy odd page course notes, which now include **Control System Design** and **Crashworthiness**, are provided to each participant. This is a must for pilots, homebuilt and kit aircraft builders and those who enjoy exercising their aviating grey matter. The date is **Saturday 6th of September** commencing at 09.00 am with completion planned for 04.00 pm. A light lunch is also provided. The venue is **St Philip's Church Hall** in **Cornwall Street Annerley**. The hall is diagonally opposite, across the Ipswich Road / Annerley Road junction, from the PA Hospital. Attendees will be required to bring a pocket calculator, a writing pad, a biro or pencil and a ruler. This is really good value in learning about aircraft design procedures plus having the opportunity to meet and discuss any relevant topics with Bill. **\$65.00 attendance fee** goes to St Philip's Church and includes lunch / **students and pensioners \$40.00**
Contact **Bill Whitney** esq bwhitney@bigpond.net.au OR **Peter Leonard** pleonard@gil.com.au

VINTAGE PIPER CUBS

Due to technical difficulties,
the photograph of Shane's Cub
is unavailable.

On the left is the 1945 **J3 Cub** that is for sale at Watts Bridge by Shane Winter and the syndicate. On the right is the WW2 vintage **L4 Cub** that is available for training and hire from Caboolture. See these aircraft at next weekends **Festival of Flight Fly-in** at Watts



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QUA INC ----- 40 MEMBERS AND STILL GROWING

We would like to welcome the new members who have joined the QUA Inc in recent months, including Jim Bowling , who has now placed his excellent Savannah in the QUA hangar to fill the recent vacancy. There is still space for one small, low wing aircraft in the hangar, if we receive any enquiries. On August 16th a team comprising of Neil Bowden, Bill Oates, Mal McKenzie, Peter and David Ratcliffe did a clean out and reorganization of the QUA hangar. Two utility loads of debris and unwanted articles were taken to the Esk tip. There remains in the hangar, a quantity of second hand windows and sliding doors that need to find a new home too. These will be dumped if they are still there at the next working bee and cleanup. We need to thank those who helped the cleanup and provided the vehicles to dispose of the rubbish. In the next weekend Peter and crew plan to install the clubhouse tanks and run some plumbing to drain the hangar tank overflow onto the adjacent taxiway

PRESIDENT Peter Ratcliffe 0418159429 TREASURER Mike Smith 0418735785

SECRETARY/ EDITOR Mal McKenzie 07 33415348 Email mmc80789@bigpond.net.au

QUA Inc TECHNICAL DIRECTOR George Perez
