

# QUEENSLAND ULTRALIGHT ASSOCIATION

## AUGUST 2008 NEWSLETTER

Watts Bridge Memorial Airfield, Silverleaves Road via Toogoolawah, Qld

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### QUA Inc POKER RUN

The QUA Inc Poker Run was well attended once again with many aircraft flying in and the pilots and crew participating in the collection of cards from the various airfields. A BBQ and soup were on hand in the clubhouse thanks to Peter and Glenda for the many visitors. Above we see the home built Grumman Panther jet replica that was flying from Watts too. The Christmas in July Dinner was well attended as well, later in the day. This year's winner was QUA member, Don Mellow, who flew a Rans S12 Airaile from Gatton.



In the picture on our left we see Don being presented with the Poker Run trophy from Richard. On the right are some of the visiting aircraft including the blue and yellow Rans S12 flown by Don during the days activities.



**THE NEXT QUA MEETING IS ON SUNDAY 10<sup>th</sup> AUGUST AT 10.00 AM IN THE QUA CLUBHOUSE, WATTS BRIDGE, WITH A BBQ AFTER THE MEETING. ALL MEMBERS AND INTERESTED PERSONS ARE WELCOME TO JOIN US**

## POKER RUN Cont.



These photos show some of the activity with different aircraft flying over the Poker Run weekend, including the para-plane that woke everyone up early on Sunday morning. Below we see some of the folk who attended the Christmas in July Dinner including Glenda in a red hat.



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## QUA HANGAR SPACE AVAILABLE

Following the sale and relocation of your editor's Tyro, there is space in the **QUA Inc hangar** for one more aircraft. If any of our members wish to fill this vacancy please contact **Mike Smith** or **Mal McKenzie** to arrange keys and rent details. Cost is **\$100.00 per month**, paid one month in advance. We would welcome enquiries from any folk, who would like to base their aircraft at Watts to enjoy the great flying conditions and facilities there, plus the informal social activities by the many recreation flyers present at the airfield.

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**USAVIATION**  
Ultralight Soaring Aviation, LLC





# AIRCRAFT OF THE MONTH

## CUMULUS MOTORGLIDER

The **Cumulus** is a third-generation Sport motor glider. Cumulus is new in every way, methodically engineered down to the last detail. From nose to tail, our new motor glider has been completely redesigned... now featuring longer span, sleekly finished wings with two-thirds span ailerons and one-third-span flaps that can also reflex for speedier cruising. Fully cantilevered—that is, with no cables or struts—her 43 foot wings also have three bays wide, flush-mounted spoilers which work with the flaps to control the long glide of the Cumulus.

A welded steel fuselage supports the engine, protects the pilot and offers robust support for the plug-in wings. When assembling the Cumulus, all controls hook up automatically as you insert the wing. Breakdown takes a few short minutes.

Strong steel main gear (with available wheel pants and gear leg fairings) gives a stance so solid that Cumulus will sit balanced while one wing is removed. Tail wheel steering is precise and deck angle is very shallow and in combination with slow approach speeds this gives Cumulus great landing characteristics.

Controls are completely conventional with long ailerons that harmonize well with a large-volume, cruciform tail which can fold up for transport or storage. A 5-inch diameter 6061-T6 tail boom makes for a secure tail plane and houses the elevator and rudder linkages.

You are seated ahead of the spar at the wing's leading edge giving tremendous visibility in all directions, perfect for soaring. A four-point seat belt system provides in-flight security just as the available BRS emergency parachute system gives a dramatic safety backup. Windscreens will be offered in an open summer version and a fully-enclosed version to protect the pilot and add performance. Rudder pedals and seat positions are ground adjustable. A molded-in panel holds all the instruments out in front of you.

A fully cowled engine under a smooth fiberglass skin preserves the clean exterior while an optionally-faired, exterior muffler assures a cooler-running engine. Cumulus earns a solid 20:1 L/D ratio and sinks under 190 feet per minute guaranteeing the bird will give you excellent soaring performance and a long reach.

Designed for the popular Rotax 447, this potent 40 horse, twin cylinder power plant comes standard with electric starting and gear reduction drive. The big engine delivers smooth operations at low power settings. Cumulus can cruise swiftly and efficiently yet brings dynamic climbs approaching 1,000 fpm. Fuel usage is surprisingly low thanks to the high-lift wings and gracefully streamlined shape.

Construction will take about 150 hours. The task is made easier by a fully welded fuselage, fully welded tail, pre-made spar (both leading and trailing edge) plus D-cell, fully formed ailerons, preformed aluminum ribs, and ready-to-finish fiberglass

fuselage fairing. The overall job is slightly more complex than simple bolt-together kits, but far less work than most construction kits. Three hours a night for less than two months should have you ready for your first flight. The result of your labor will be a beautiful, durable, and high performance soaring machine with highly authoritative controls. Optional plug-in, short-span wings are available soon, transforming the Cumulus into a speedier cruiser for a modest additional cost over the basic kit. Flown high in thermals as a sailplane or used for cross-country trips as a power plane, the Cumulus can deliver years of flying pleasure. The view is just stunning from the pilot's seat of the Cumulus!

### Dimensions

|                    |                                |
|--------------------|--------------------------------|
| Wing Span .....    | 43 ft (13.1m)                  |
| Wing Area .....    | 140 sq ft (12.7 sq m)          |
| Aspect Ratio ..... | 13.1:1                         |
| Empty Weight ..... | 360 lbs / Gross Weight 640 lbs |
| Useful Load .....  | 280 lbs                        |
| Payload .....      | 250 lbs                        |
| Length .....       | 20 ft / Height 4.5ft           |

### Speeds

|                          |           |
|--------------------------|-----------|
| Max Speed (V max) .....  | 90 mph    |
| Cruise Range .....       | 35-75 mph |
| Stall (best flaps) ..... | 32 mph    |

### Performance

|                        |                  |
|------------------------|------------------|
| Best Sink Rate .....   | 190 fpm @ 34 mph |
| Best Glide Angle ..... | 20:1 @ 43 mph    |
| Rate of Climb .....    | 1000 fpm, max    |
| Range.....             | 200 + miles      |
| Takeoff Roll .....     | 170 ft           |
| Roll Rate .....        | 3.5 sec          |

### Structure

|                       |                                   |
|-----------------------|-----------------------------------|
| Limit Load .....      | +4.4 / -2.0 G min                 |
| Design Factor         |                                   |
| Of Safety .....       | 1.5 times Limit Load              |
| Wing/Tail Cover ..... | Painted Dope & Fabric or Aluminum |
| Airframe .....        | 4130 chrome - molly steel         |
| Wing Loading .....    | 4.56 lbs / sq ft                  |
| Fuel Capacity .....   | 3 gal                             |

### Prices & Options

#### Prices (US funds)

|                             |                 |
|-----------------------------|-----------------|
| Complete Airframe (#1) .... | \$9,995         |
| Rotax 447 Engine (#2) ..... | \$3939          |
| Engine Group (#3) .....     | \$395           |
| Crating .....               | \$495           |
| Shipping .....              | Per destination |

#### Options

|                              |                                   |
|------------------------------|-----------------------------------|
| BRS parachute (#4) .....     | \$1,895 - \$ 2,195                |
| Instrument Group (#5) .....  | \$595                             |
| Wheel Pants &                |                                   |
| Gear Leg Fairing Kit .....   | \$349                             |
| Aluminum Wing Skin Kit ..... | \$375                             |
| Full Enclosure Kit .....     | \$495 (Avail. soon)               |
| Muffler Fairing Kit .....    | \$195 (Avail. soon)               |
| Bucket Seat .....            | \$95 (upgrade from standard seat) |
| Baggage Compartment ....     | \$79                              |

**Note #1:** Includes all parts, instruments, and factory technical support to complete Cumulus airframe inc. covering materials but not paint or custom interior finishings

**Note #2:** Rotax 447 includes Mount and Electric Starter. Fan cooled, 447 cc, 40 hp, twin cylinder engine with gear drive, muffler, carb. and single CDI ignition.

**Note #3:** Engine Group includes 48" X 34" Multi laminate Wood Prop, Electric Start Battery and battery mount, Rectifier, Switches, Wire Harness and Connectors.

**Note #4:** BRS-5 canister unit (\$2,095; soft pack is \$1,795; 750 lbs/100mph unit) is factory sealed against moisture damage. We strongly recommend this option for safety reasons.

**Note #5:** Instrument Group includes ALT, ASI, CHT, EGT, and Tach.

#### Ultralight Soaring Aviation

[info@ultralightsoaringaviation.com](mailto:info@ultralightsoaringaviation.com)

<http://www.ultralightsoaringaviation.com>

# SOCIAL CALENDAR

- August 10<sup>th</sup>**                      **QUA Inc General Meeting** at the QUA Clubhouse, **Watts Bridge**.  
Commencing at 10.00am , followed by a Sausage Sizzle & BBQ.  
Fly in or drive to enjoy the open spaces and county air at Watts Bridge.
- August 28<sup>th</sup> – 31<sup>st</sup>**                      **Festival of Flight** Vintage Fly-in and Annual Dinner at **Watts Bridge**.  
See [www.qvag.org.au](http://www.qvag.org.au) or contact Craig Justo on 0407740734
- September 6<sup>th</sup>**                      **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 5-6<sup>th</sup>**                      **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 12-13<sup>th</sup>**                      **BEDOURIE RACES** Celebrate 50<sup>th</sup> 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 14<sup>th</sup>**                      **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 10<sup>th</sup> anniversary Gourmet in Gundy Festival.  
Contact Paul or Margaret [PSS@bigpond.com.au](mailto:PSS@bigpond.com.au) or 0427 063 693
- September 20<sup>th</sup>**                      **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](mailto:phil.goyne@bigpond.com)  
or Rob Behrend 0429 332 225 or Gus Mauch 07 4664 8255
- September 20<sup>th</sup>**                      **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 26-28<sup>th</sup>**                      **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](http://www.coffsharboursaeroclub.com)
- October 04-05<sup>th</sup>**                      **The Amberley Airshow**  
Contact Air Commodore Des Long on 08 83961406
- October 18-19<sup>th</sup>**                      **Museum of Australian Army Flying Fly In**  
**Rotors Wings n Wheels n Possums**  
Contact Helen Dawden [nedwab@bigpond.net.au](mailto:nedwab@bigpond.net.au)

# QUEENSLAND ULTRALIGHT ASSOCIATION

## MINUTES OF JUNE 2008 GENERAL MEETING

|                           |  |                      |            |             |           |             |          |                      |            |                           |                                  |  |                                   |
|---------------------------|--|----------------------|------------|-------------|-----------|-------------|----------|----------------------|------------|---------------------------|----------------------------------|--|-----------------------------------|
| MEETING OPENED            | 08.05 pm   |                      |            |             |           |             |          |                      |            |                           |                                  |  |                                   |
| APOLOGIES                 | Don Mellow   |                      |            |             |           |             |          |                      |            |                           |                                  |  |                                   |
| VISITORS                  | Santiago Ayala   |                      |            |             |           |             |          |                      |            |                           |                                  |  |                                   |
| PRESIDENT'S REPORT        | <p>The clubhouse drainage is in, thanks to Ian Ratcliffe's son, Michael. Peter and Rod back filled the trench. Costs were \$200.00 to have the trench dug and \$145.00 for the pipes. The two tanks are expected to arrive in the next week. The internal plumbing, power cables are to be installed in the toilet area so that area can be sheeted and tiled before being made operational. The tiles are stored at Watts. The electrical meter box is coming soon too. The Poker run is next Saturday, with BBQ and soup arranged by Peter Ratcliffe and Glenda.</p>   |                      |            |             |           |             |          |                      |            |                           |                                  |  |                                   |
| TREASURERS REPORT         | <table><tr><td>Opening Balance.....</td><td>\$5,860.00</td></tr><tr><td>Income.....</td><td>\$ 364.00</td></tr><tr><td>Debits.....</td><td>\$ 30.00</td></tr><tr><td>Closing Balance.....</td><td>\$5,984.00</td></tr><tr><td>Outstanding invoices.....</td><td>\$5,826.00 ( cost of the tanks )</td></tr><tr><td></td><td>\$2,472.00 ( Watts rent / rates )</td></tr></table> <p>Motion to raise the supper money costs at Qua Meetings.<br/>Proposal is to raise it to \$5.00 per present member to cover the SAAA Clubhouse hire costs on the Monday evening.<br/>Motion Proposed.....Mike Smith<br/>Seconded.....Glenda Faint<br/>Vote.....Motion Carried<br/>One new member.....Rod Ward<br/>Peter Ratcliffe has offered to loan the QUA \$1,000.00 to help the QUA cover the on going clubhouse fit out costs.<br/>Hangar rental update. Two tenants are behind in payment and will need to be contacted to encourage payment of their rent.</p> | Opening Balance..... | \$5,860.00 | Income..... | \$ 364.00 | Debits..... | \$ 30.00 | Closing Balance..... | \$5,984.00 | Outstanding invoices..... | \$5,826.00 ( cost of the tanks ) |  | \$2,472.00 ( Watts rent / rates ) |
| Opening Balance.....      | \$5,860.00   |                      |            |             |           |             |          |                      |            |                           |                                  |  |                                   |
| Income.....               | \$ 364.00  |                      |            |             |           |             |          |                      |            |                           |                                  |  |                                   |
| Debits.....               | \$ 30.00   |                      |            |             |           |             |          |                      |            |                           |                                  |  |                                   |
| Closing Balance.....      | \$5,984.00   |                      |            |             |           |             |          |                      |            |                           |                                  |  |                                   |
| Outstanding invoices..... | \$5,826.00 ( cost of the tanks )   |                      |            |             |           |             |          |                      |            |                           |                                  |  |                                   |
|                           | \$2,472.00 ( Watts rent / rates )  |                      |            |             |           |             |          |                      |            |                           |                                  |  |                                   |
| SECRETARIES REPORT        | <p>A few emails received.<br/>A request by Tom Ball for the QUA to look at the drainage and water runoff from the hangar tank to adjacent his site. This will need to be addressed in the future. Some plumbing of the tank overflow and a spoon drain will be required to fix this properly.</p>  |                      |            |             |           |             |          |                      |            |                           |                                  |  |                                   |
| WATTS BRIDGE REPORT       | The new toilet block is working including the lights.  |                      |            |             |           |             |          |                      |            |                           |                                  |  |                                   |
| SOCIAL DIRECTOR           | The Poker Run 08 is set for Saturday 12 <sup>th</sup> of July with the winner to announced at the Christmas in July Dinner. Richard has arranged for the cards to be distributed to the various airfields and has ordered the trophy. Peter and Glenda will be organizing the soup and BBQ with help from any interested members.  |                      |            |             |           |             |          |                      |            |                           |                                  |  |                                   |
| SPECIAL THANKS            | To Robin Salisbury for providing the supper.   |                      |            |             |           |             |          |                      |            |                           |                                  |  |                                   |
| MEETING CLOSED            | 08.45 pm   |                      |            |             |           |             |          |                      |            |                           |                                  |  |                                   |

# 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 6<sup>th</sup> 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](mailto:bwhitney@bigpond.net.au) OR **Peter Leonard** [pleonard@gil.com.au](mailto:pleonard@gil.com.au)

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THE NEXT QUA MEETING IS ON SUNDAY 10<sup>th</sup> AUGUST AT 10.00AM  
AT WATTS BRIDGE WITH A BBQ AFTER THE MEETING  
ANY INTERESTED PERSONS ARE WELCOME TO JOIN US

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**PRESIDENT Peter Ratcliffe 0418159429    TREASURER Mike Smith 0418735785**

**SECRETARY/ EDITOR Mal McKenzie 07 33415348 Email [mmc80789@bigpond.net.au](mailto:mmc80789@bigpond.net.au)**

**QUA Inc TECHNICAL DIRECTOR George Perez**

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## ANNUAL SUBSCRIPTIONS ARE OVER DUE !!!

This is the last reminder to renew your membership and pay the annual **\$50.00** QUA subscription fee. The cut off date for payment is **August 2008** with payment due by **30<sup>th</sup> June, 2008**. Treasurer **Mike Smith** is happy to accept cash or bank transfer or a cheque in the mail if you can't make the next meeting. Contact Mike on 0418735785 to arrange payment. A tear off slip is included below for your convenience. **Do it now**

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### QUA SUBSCRIPTIONS 2008 TEAR OFF FORM

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

\_\_\_\_\_ POST CODE \_\_\_\_\_

PHONE NUMBER \_\_\_\_\_

QUA SUBS \$50.00 \_\_\_\_\_ EMAIL \_\_\_\_\_

Payment can be posted to, The Treasurer, QUA Inc, 88 Summit Drive, Sheldon, 4157