

# QUEENSLAND ULTRALIGHT ASSOCIATION

## APRIL 2007 NEWSLETTER

Watts Bridge Memorial Airfield, Silverleaves Road via Toogoolawah, Qld

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## AIRCRAFT OF THE MONTH

Introducing the BK1 by Bruce King



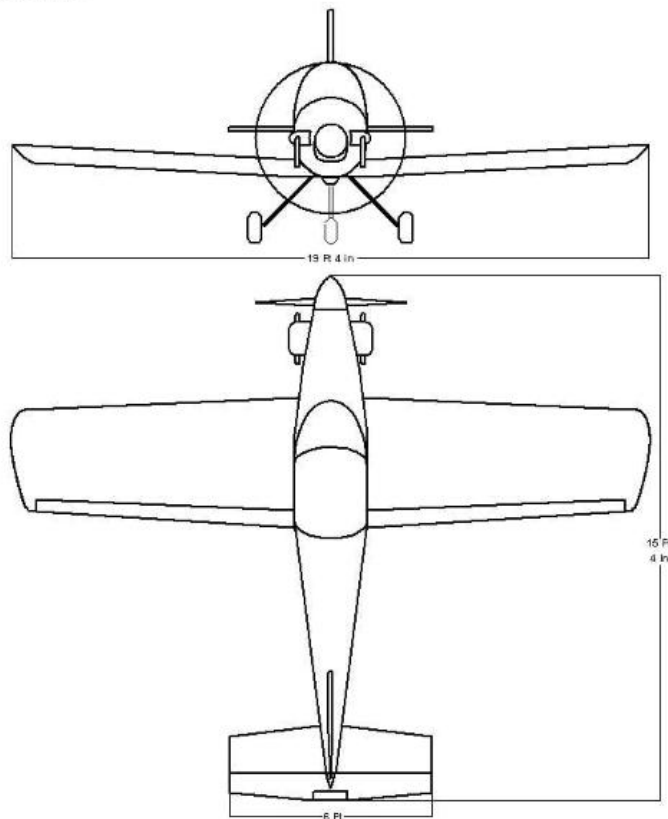
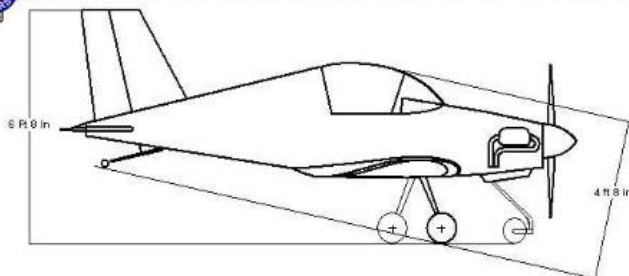
**The BK1** is a new design by Bruce King to carry up to a 6' 4" 250lb pilot, 30 lbs of baggage at 130 mph for 400 miles with an hours reserve. The BK1 can be built from scratch for under \$7,000 US or under \$10,000 US with pre-made components. A Tri-Gear and Electric Start are to be included the production plans model.. The prototype BK1 flew 1,200 miles to Oshkosh in 2005 in ten hours with two fuel stops giving a fuel consumption of 33 mpg. The BK1 was designed to solve the problem of many under \$10k US designs that do not have the cockpit size, baggage capacity, speed or range to be practical for cross country flights.

Previously Bruce had constructed a Hummelbird aircraft and many of that aircraft design features were included in the larger BK1. Another requirement was the fitting of a full 1835 version of the VW engine compared to the half VW in the Hummelbird. The prototype BK1 has been flying for several years with continual improvements done to upgrade its performance and general appearance. After two more prototypes have been constructed and tested to check the accuracy of the plans and construction information, the production model plans will be released for sale in 2007. This is unlike some designers who are happy to sell plans to prospective builders for aircraft yet to be built and tested.

# BK1 Specifications and Performance



00-00-01 Introduction External - BK1.3 Rev 03/18/2006 © BK Fliers LLC



## BK1 Dimensions:

**Wing Span: 19 feet 4 inches**

**Length 15 feet 4 inches**

**Cockpit Width: 24 inches**

**Cockpit Height: 40 inches (curved canopy)**

**Leg Room: 50 inches (firewall to seat back bulkhead)**

**Fuel Capacity: 15 gallons**

**Empty Weight: 430 pounds**

**Gross Weight: 800 pounds**

**Fuel: 90 Pounds (15 Gallons)**

**Pilot Size: Up to 250 pounds - 6 foot 4 inches tall**

**Baggage 30 pounds with 250 pound pilot. More if a lighter pilot (within CG limits)**

## Engine:

**Great Plains 1835 Volkswagen Conversion - Rated Takeoff Horsepower: 60**

**Performance: (Prototype 1) Measured by hand held GPS, the space between runway lights with 250 pound pilot and full fuel.**

**Takeoff Distance: 700 feet**

**Landing Distance: 700 feet**

**Rate of Climb: 750 fpm @ 65 mph IAS (initial)**

**Max Continuous Cruise: 130 mph using 3.5 gallons per hour. Range 400 miles with reserves.**

**Economy Cruise: 100 mph using 2.5 gallons per hour. Range 500 miles with reserves.**

**Top Speed: 145 mph or**

**Plans: CAD drawn plans, Step by Step Photo Builder's Manual and Video. Full size templates. Projected availability Oshkosh 2007**

**Build Cost: \$7000 including new Great Plains VW 1835. Build Time: 1500-2000 hours, from plans, less with prefabricated parts.**

**Beta Builders Program: 9 Experienced builders are currently checking plans and constructing aircraft.**

**More information is available on the following web page [www.bkfliers.com](http://www.bkfliers.com)**

# QUEENSLAND ULTRALIGHT ASSOCIATION

## MINUTES OF MARCH 2007 GENERAL MEETING

|                             |   |
|-----------------------------|---|
| MEETING OPENED              | 08.00 pm  |
| APOLOGIES                   | Gavin McGrath , Col Thorpe  |
| VISITORS                    | Only Robin.   |
| MINUTES OF PREVIOUS MEETING | MOVED Mike Smith<br>SECONDED Ian Ratcliffe<br>CARRIED   |
| PRESIDENT'S REPORT          | Expressed apology for the slowness of the hangar repairs.<br>Problems were due to the insurance company requesting a second quote. The quotes have been accepted by QBE.<br>The Clifton Fly-in was well attended this year with aircraft / people from Bradfield, Gatton South, Jacobs Well and Watts flying in. Over 100 aircraft visited Bange's Airfield.<br>10 <sup>th</sup> Anniversary Nats Fly-in at Narromine. Some members are flying or driving there to attend this time.            |
| TREASURERS REPORT           | Bank Account \$ 5,256.27<br>Investment Account \$16,117.35<br>QBE Insurance has issued a cheque for the hangar repairs.<br>Chris Gratton Sheds has ordered the materials for the repairs which are expected to be completed in three weeks<br>A quote to raise the insurance value of the hangar to \$50,000 has now been received. This increases the annual premium by \$150.00. A motion was put forward to accept this quote.<br><br>MOVED Roger Kelly<br>SECONDED Richard Faint<br>CARRIED |
| SECRETARIES REPORT          | Two invoices were received from Watts Bridge.<br>An advertisement from Gavin McGrath.<br>Another offer from American Express for a credit card.<br>A file to store printed incoming emails has been made.   |
| WATTS BRIDGE REPORT         | Fence repairs still need to be completed.<br>Leases are moving forward with the Water Board   |
| GENERAL BUSINESS            | Tony Hayes is proposing the setting up of a broad based aviation museum for a collection of airworthy aircraft. at Watts Bridge. Tony is interested to speak with any people with similar goals. <a href="mailto:tonyhayes@bordernet.com.au">tonyhayes@bordernet.com.au</a>   |
| SOCIAL DIRECTOR             | The Poker Run 07 is being planned for Saturday 14 <sup>th</sup> of July to coincide with the Watts Bridge "Christmas in July" function being organized by Liz Cook and the WBMA   |

# QUA MINUTES CONTINUED

## TECHNICAL QUESTIONS

Lloyd experienced a power loss ten minutes after take-off last Saturday. He was able to return to Jacobs Well safely. The day was very humid. Water was found on the engine manifold. Questions regarding carburetor icing were raised. Mike Smith reported that when tested, pin holes were found in the pressure capsules of his altimeter and airspeed indicator, causing their erratic operation in his Jabiru. Discussion was also raised about carbon build up and spark plug fouling in two stroke engines using Castrol Active 2T mineral oil after 60 hours operation in a new Rotax 503.

## SPECIAL THANKS

to Robin Salisbury for preparing the supper again.

## MEETING CLOSED

08.45pm

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## SOCIAL CALENDAR

- April 02 QUA General Meeting at the SAAA Clubroom at Archerfield Airfield. Starting from 07.30 pm with supper provided after the meeting.
- April 06 – 08 Natfly 10<sup>th</sup> Anniversary Fly-in at Narromine, NSW. Contact the RAAus Office on 02 62804700 for more details.
- April 29 Gatton South Airpark Brekkie Fly-in “ BREAKFAST AT THE PARK “  
Everyone welcome – ultralights / home-builts and GA  
\$5.00 covers all-you-can-eat BBQ Brekkie, Tea and Coffee  
Contact Beven Dryden [airbolt@bigpond.net.au](mailto:airbolt@bigpond.net.au) / 07 54624174 or  
Martin Hone [av.&@bigpond.com](mailto:av.&@bigpond.com) / 0419368696
- April 29 Caboolture (YCAB) QVAG FLY-IN  
Sausage Sizzle and Lunch Starting from 10.00 am  
Contact Shane Winter [swinter@inet.net.au](mailto:swinter@inet.net.au) / 0407122219
- May 05 – 07 Inglewood International Labor Day Weekend and Fly-In  
“ The Gathering Of The Tribes “  
Small Town , Small Airfield , BIG on Hospitality. See You There.
- July 14 QUA Poker Run at Watts Bridge. Competition to start from 09.00am with a BBQ / Sausage Sizzle / Soup / Drinks available during the day.
- July 14 The Watts Bridge Christmas in July Dinner in Town is being organized by Liz Cook, phone 07 32345056. More information will be supplied later.

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**Richard Faint has requested that members who wish to receive their QUA newsletters via email please send him an email to update his address list as some members may not be receiving their newsletters each month. Sending out the newsletters via email helps save postage, paper and time. Richard's email address is as follows ..... [rlfaint@auav.org](mailto:rlfaint@auav.org)**

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# FOR SALE

Pee-Wee II with fully enclosed (Registered) trailer. Wings and elevator just recovered and refurbishment almost complete. New paint. Excellent aircraft. Hours of trouble-free operation.

Located in Lowood.



Asking \$11,000.

Call Gavin 5426 2118 (after hours)  
or on mobile 0409 265 343

# AIRCRAFT FOR SALE



## ALL METAL ULTRALIGHT

This R.A.Aus registered 95.10 all metal fun machine is powered by Fuji Robin 440 cc dual ignition engine with a 2.55/1 belt reduction drive. Instruments fitted – Digital Tacho, CHT, EGT. Skid/Slip Indicator, ASI, VSI, Compass, Sensitive Altimeter. Optional UHF & VHF radios. Complete spare engine and propeller. Includes a Panel Rib covered trailer for transport to the airfield and storage. Floats included .Fly at 45 knots @ 5 litres p/h or 60 knots @ 10 litres p/h. This is a very docile machine to fly. Offers invited. Contact Richard on 07 3245 2579 or via email on [rsweetapple@optusnet.com.au](mailto:rsweetapple@optusnet.com.au).

**FOR SALE --- Drifter two seat aircraft with a recently rebuilt electric start Rotax 503 engine fitted. Other details include new helmets, new radio, reconditioned gearbox, and a new propeller with 17 degree pitch blocks fitted. This Drifter, which has a cruise speed of 55 knots is currently located at Clifton Airfield, Queensland. For more details please contact Jim Ben on 07-46971152. Asking price is \$17,000.00 for a well maintained aircraft.**

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The QUA hangar repairs were completed on March 23. The next morning, being Saturday, both Tyros were removed from the hangar for the first time since mid December 2006, dusted off and flown by their owners.

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## NEXT QUA MEETING

MONDAY 2<sup>nd</sup> APRIL 2007

Starting from 07.30 pm at the SAAA clubroom near the main airfield gate on Beatty Road , Archerfield. Same time , Same place. Some good discussion of the building and flying of Recreational Aircraft always heard each month.

Everyone is welcome to make it a great night and share Robin's supper.

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PRESIDENT Peter Ratcliffe 07 33413077    TREASURER Roger Kelly 07 32799710

SECRETARY/EDITOR Mal McKenzie 07 33415348

Email [mmc80789@bigpond.net.au](mailto:mmc80789@bigpond.net.au)

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