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T.W.I.T.T. NEWSLETTER



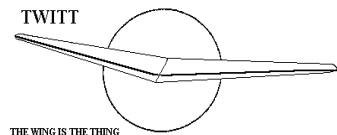
We wish you and the whole flying wing community a Merry Christmas and a good start into 2020!
With kind regards, Reinhold Stadler

T.W.I.T.T.

The Wing Is The Thing
P.O. Box 20430
El Cajon, CA 92021



The number after your name indicates the ending year and month of your current subscription, i.e., 2001 means this is your last issue unless renewed.



**THE WING IS
THE THING
(T.W.I.T.T.)**

T.W.I.T.T. is a non-profit organization whose membership seeks to promote the research and development of flying wings and other tailless aircraft by providing a forum for the exchange of ideas and experiences on an international basis. T.W.I.T.T. is affiliated with The Hunsaker Foundation, which is dedicated to furthering education and research in a variety of disciplines.

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Gatherings are held on the third Saturday of every odd numbered month, at 1:30 PM, at Hanger A-4, Gillespie Field, El Cajon, California (first row of hangers on the south end of Joe Crosson Drive (#1720), east side of Gillespie or Skid Row for those flying in).

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PRESIDENT'S CORNER

Imagine that you have noticed there were no newsletters for October and November, and that this one is slimmer than past issues. I will explain.

I am thinking it is time to either shut down the monthly newsletter or more drastically terminate TWITT as an on-going association of enthusiasts. This has come about due to the lack of material and the ever shrinking number of people signed on for the newsletter, which now stands at 43 versus the 80+ we used to have. Also, I am getting older and having fits of arthritis that make it difficult to use the keyboard.

So I am open to suggestions from the group on ways to keep this going or close it out except for possibly leaving the web site up and running due to the historic material it contains. Gavin and I have discussed numerous options, but I wanted to see what the group might come up with since you are in essence the owners and have a stake in the association in the dues you pay each year.

I would appreciate your input in the coming weeks via e-mail (twitt@pobox.com) or snail mail for those you without a computer. In the mean time I will continue to send out issues when I have enough material to at least produce a product like this one or the regular format. I will also be adjusting expiration dates as issues are missed so if your label indicates you are due please wait a couple of months so we can see what direction will eventually take.

Thank you for your support over the years.



LETTERS TO THE EDITOR

All:

For those friends, faculty, and/or students who may be interested, embedded herein is the link to my 48-min presentation to the 2018 Experimental Soaring Association Western Workshop. The focus is on an empirical lifting-line method for the distribution of lift over the full vehicle, the author’s apparent upwash method for drag, free EXCEL tools applying the methods, and some interesting historical notes.

<https://www.youtube.com/watch?v=nb1117CIJp0>

The updated charts appear at the lower-right corner of my web page www.HowFliesTheAlbatross.com

All have a great holiday season.

Phil Barnes

Air Vehicle & Subsystems Performance
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310-332-0051

Hello Andy,

I am writing to ask you for something (which is actually for TWITT and for you). Remember Tom Brough, the TWITT gift membership recipient? He is currently working on a tailless R/C model (it’s nearly done) called the Alien, which he is building from a model plan. He could write a wonderful article about this project for the TWITT Newsletter. Also, he has sent me pictures of—and information on—several electric propeller- and ducted fan-powered R/C models—including scale models, such as an English Electric Canberra jet bomber—that he has built from plans and (modified by him) kits, as well as from scratch. Amazingly, he even built his own EDF (electric ducted fan) units for jet models, using re-purposed VCR and DVD electric motors (which he even custom-wired, in some cases—his Canberra model uses two of these)! He is a “walking wealth of modeling and flying skill.” Now, regarding my request to you:

If you e-mailed Tom and invited him to write an article about his Alien tailless R/C model project for the TWITT Newsletter (I infer that he is slightly shy concerning such matters), it could be the first of a series of fascinating, information-packed articles by him. If you asked Tom—in your own words—

something along the lines of, “Jason Wentworth has told me about your numerous R/C electric-powered propeller and ducted fan jet models, including your current project, the tailless Alien model. If you would write an article about this project for the TWITT Newsletter, our readers would be very interested in reading it. Also, while TWITT is devoted to flying wing and tailless aircraft, our members—including myself—are not interested in such aircraft to the exclusion of all other types; for example, I own a Schweizer 1-26 sailplane, and occasionally it and other aircraft of conventional configuration are mentioned in the TWITT Newsletter...” Also:



In a second accompanying e-mail message, I will include Tom Brough’s e-mail address and his picture of the Alien tailless R/C model airplane (I am sending them separately just in case Tom’s picture file causes your computer’s anti-virus software to “snag” that message away to your “Junk Mail” folder [his pictures don’t have any viruses, but their overseas origin—he’s in Scotland, on the Isle of Mull—has sometimes attracted my computer’s anti-virus software’s attention]).

Many thanks in advance for your help!

Jason Wentworth

(ed. - I got busy with other things and for got to write Tom so this will be sort of a surprise for him. I hope he will agree to writing at least one article on his design for the newsletter.)

**AVAILABLE PLANS &
REFERENCE MATERIAL**



VIDEOS AND AUDIO TAPES



(ed. – These videos are also now available on DVD, at the buyer's choice.)

VHS tape of Al Bowers' September 19, 1998 presentation on "The Horten H X Series: Ultra Light Flying Wing Sailplanes." The package includes Al's 20 pages of slides so you won't have to squint at the TV screen trying to read what he is explaining. This was an excellent presentation covering Horten history and an analysis of bell and elliptical lift distributions.

Cost: \$10.00 postage paid
Add: \$ 2.00 for foreign postage

VHS tape of July 15, 2000 presentation by Stefanie Brochocki on the design history of the BKB-1 (Brochocki,Kasper,Bodek) as related by her father Stefan. The second part of this program was conducted by Henry Jex on the design and flights of the radio controlled Quetzalcoatlus northropi (pterodactyl) used in the Smithsonian IMAX film. This was an Aerovironment project led by Dr. Paul MacCready.

Cost: \$8.00 postage paid
Add: \$2.00 for foreign postage

An Overview of Composite Design Properties, by Alex Kozloff, as presented at the TWITT Meeting 3/19/94. Includes pamphlet of charts and graphs on composite characteristics, and audio cassette tape of Alex's presentation explaining the material.

Cost: \$5.00 postage paid
Add: \$1.50 for foreign postage

VHS of Robert Hoey's presentation on November 20, 1999, covering his group's experimentation with radio controlled bird models being used to explore the control and performance parameters of birds. Tape comes with a complete set of the overhead slides used in the presentation.

Cost : \$10.00 postage paid in US
\$15.00 foreign orders

**FLYING WING
SALES**

BLUEPRINTS – Available for the Mitchell Wing Model U-2 Superwing Experimental motor glider and the B-10 Ultralight motor glider. These two aircraft were designed by Don Mitchell and are considered by many to be the finest flying wing airplanes available. The complete drawings, which include instructions, constructions photos and a flight manual cost \$140, postage paid. Add \$15 for foreign shipping.

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The purpose of ESA is to foster progress in sailplane design and construction, which will produce the highest return in performance and safety for a given investment by the builder. They encourage innovation and builder cooperation as a means of achieving their goal. Membership Dues: (payable in U.S. currency)

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Make checks payable to: Experimental Soaring Association, & mail to Murry Rozansky, Treasurer, 23165 Smith Road, Chatsworth, CA 91311.