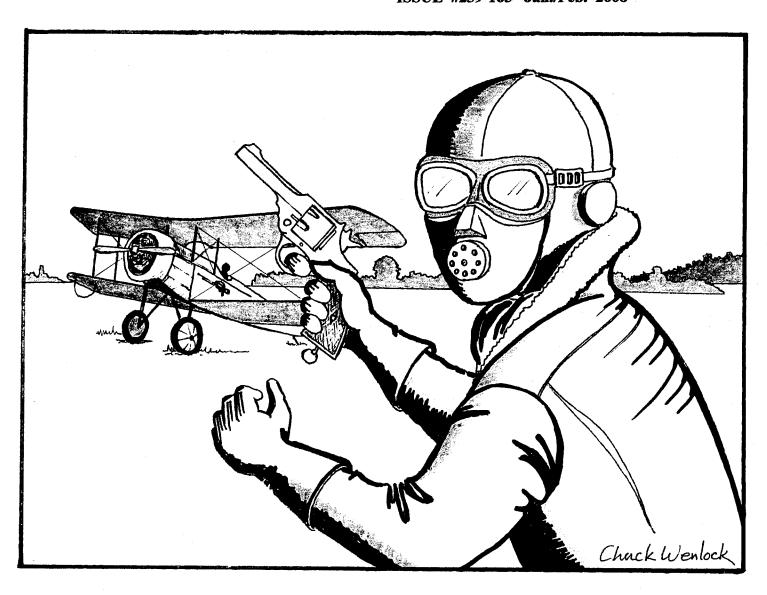
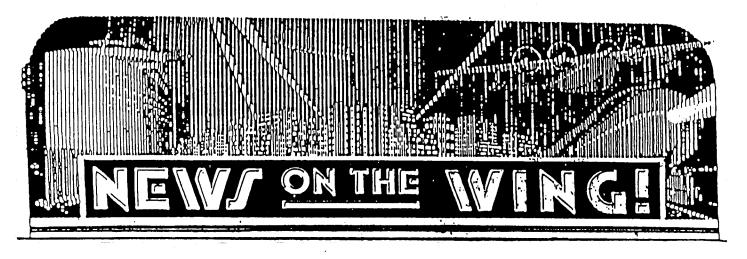
Club News

ISSUE #239-165 Jan./Feb. 2008



"I WAITED IN THE BRISTOL AS THE PILOT OF THE RED FIGHTER CLIMBED FROM HIS COCKPIT."



Welcome to the year 2008! HAPPY NEW YEAR to all Clubsters everywhere! Thanks to all who contributed to this issue. The cover art was done by Chuck Wenlock and the plans are from John Blair (Sperry Messenger), Lloyd Willis, Australia, (Piper Tri-Pacer), Derek Buckmaster (Bristol M1 Gypsy Racer) and from our files here at GHQ is a Guillows Vought Cosair, early version.

There is something going on on the internet that irks me at times, and the biggest thing is the FAC rules. Someone will contact us and say, "When did you change this/that rule. I just seen it on the internet." I don't know who dreams up these things but let me tell you all that if you don't read it in the official FAC rulebook don't believe, it's probably just someone that's trying to create some turmoil in the ranks! And, the 2008 FAC rule book is included with this issue of the newsletter. Additional rule books can be purchased from FAC GHQ for \$4.00 each.

Don't forget when you send in your dues for 2008 that they have been raised to \$18.00 per year. Still a great deal! The last time we raised the dues was in 1995 and prices have really had a big up-turn since then. We just had to do it!

Three members have gone to the "Big Thermal In the Sky". Ray Black from Las Cruces, N.M., Casimier Grevera from Sunnyvale, Ca., and Bill Noonan from San Diego, Ca. We extend our condolences to their families and friends for their loss, as well as ours.

We have just been alerted to the fact that the French fighter, the former Nieuport Company, CAO-200 is now eligible for WW-II combat. Only 12 aircraft were finished before the Nazi took over france but one of these aircraft managed to enter combat against the dreaded Luftwaffe and succeeded in shooting down a Heinkel 111. Just enough to make it OK for the WW-II event.

This in from Lonnie Cope about the color of the wings on the Hughes H-1 racer. Lonnie has a friend who was a purchasing agent for Hughes and passed by the racer many times and seen both sets of wings and he says that both sets were blue.

I got a note from Claude powell about the offer I made for anyone building the Northrop XP-56 from the plan in the last issue which stated that anyone building one and getting a qualifying flight would get a prize. Well, Claude suggests that if 3 of them show up at Geneseo we have a mass luanch for them instead. Good idea Claude, we can do it as well as give the prize too! To the building board Skysters!

BUILD---FLY---WIN.....EFF--AAA--CEEE!!!!!!

Col. Lin Reichel, CinC, FAC

Lin

The FLYING ACES CLUB

is a society of unique individuals with a common interest that at times borders on a passion. It is our intent to preserve and promote the traditional building and flying of free flight stick and tissue model aircraft. Although competitive at times, the sharing of innovations, assistance and camaraderie is second nature to all that believe in the unique spirit of the FLYING ACES CLUB

NOMINATIONS FOR THE FAC HALL OF FAME

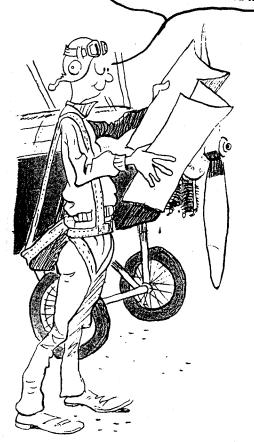
Clubsters, it is now time for you to nominate worthy candidates for the FAC Hall of Fame. These candidates qualifications must be for what they have done to promote the success of the Flying Aces Club. This is the highest honor that we can bestow upon them so think about your nominees very carefully before you send their names in to GHQ. We will publish the names of the candidates in the March/April issue of the newsletter and then you can vote for the candidates that you think are the most worthy of this high honor. The top three candidates with the most votes will be inducted into the FAC Hall of Fame at the FAC Nats banquet on July 19, 2008. Send your nominees names and qualifications to; FAC-GHQ, 3301 Cindy Lane, Erie, Pa. 16506 no later that March 31, 2008.



MEMBERS OF THE FAC HALL OF FAME

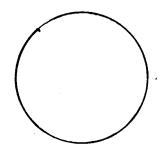
DAVE STOTT LIN REICHEL **BOB THOMPSON DON SRULL** EARL STAHL RALPH KUENZ **BOB LEISHMAN** PRES BRUNING DAVE REES EARL VAN GORDER BILL WARNER **BILL HANNAN RUSS BROWN** VIC DIDELOT TOM NALLEN, I **JOE FITZGIBBON BOB ROGERS JUANITA REICHEL ROSS MAYO BOB CLEMENS** DAVE LIVESAY **BOB BOJANOWSKI** MIKE MIDKIFF **ED NOVAK JACK MOSES** LEN WIECZOREK WALT MOONEY **GORDON ROBERTS** LEON BENNETT **DAVE NIEDZIELSKI** VANCE GILBERT PECK-POLYMERS MIKE NASSISE **BOB SCHLOSBERG**

I'm going to be at the FAC's 30th Nats anniversary bash at Geneseo, N.Y. on July 16-19. Geneseo is easy to locate! Hope to see a record turnout!



NOTE NEW DUES STRUCTURE BELOW

IF THE CIRCLE ON THE RIGHT HAS THE DREADED RED 'X' IN IT, IT IS TIME TO RENEW YOUR MEMBERSHIP WHICH INCLUDES THE NEWSLETTER. COST IS \$18.00 PER YEAR IN THE U.S.A., COST FOR CANADA IS \$25.00 PER YEAR. COST FOR OVERSEAS IS \$30.00 PER YEAR. ALL IN U.S. DOLLARS. SIX ISSUES PER YEAR, PUBLISHED APPROXIMITLY EVERY OTHER MONTH. PLEASE MAKE CHECKS PAYABLE TO; FLYING ACES CLUB, 3301 CINDY LANE, ERIE, PA. 16506.



Part 3: Tri-Motors, Flying Wings

Why Free Flight Scale?

Vance Gilbert

Arlington MA

[This is the third segment of Vance Gilbert's series on flying scale. In Part 1 (January, p. 13), Vance covers many particulars on setting up biplanes and low-wing subjects for optimum performance. The second installment includes well-honed steps toward gaining reliability and satisfaction from tri-motored models and flying wings.—Ed.]

Tri-motors

For a while, these ships were a way of life for me in the Flying Aces Club (FAC). As I was a nearly exclusive builder of between-the-wars airliner models (with a few deviations) during this period, they hold a special allure for me. I couldn't get enough of the view from the rear, as one of these ships left my hand, all props churning. Satisfying, to say the least.

FAC's bonus-point structure was revised so that tri-motors, while having more motors, props, and drag to deal with, get five points less than a twin. I agree: A tri-motor will fly (after a fashion) with one of the outboards hung up; a rubber twin won't.

One way to look at tri-motor flying is that the outboard motors provide thrust, yet cancel each other out; then you are left with a single-engined ship to work on. This is especially true if the outboard props counter-rotate. You simply have to give each a bit of downthrust; then, using the center prop. you can deal with any gyroscopic progression, turn or anything else you need to consider.

This having been said, great trimotor flyers like Don Srull, Chris Starleaf and Dave Rees will swing all three props in the same direction. Often, on 30-37 in. ships, they will use a 9.5-in. Peck for the center prop and some cut-down 8-inchers for the outboards, They'll point all the thrustlines down 3 degrees and right 2 degrees.

No arguing with their incredible successes: I've done the same on my 5-engined ANT 14, as I was dreading making four counter-rotators! Again, I'd rather think less about any angled thrust adjustments; just custom-make some props and point anything that needs it, pointed downward.

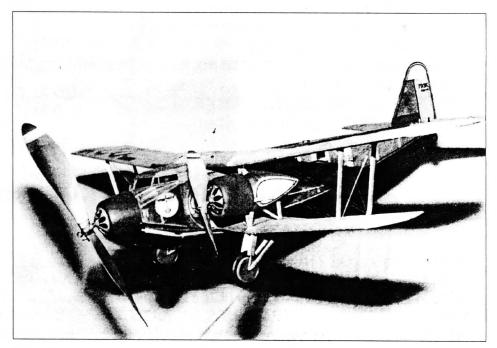
You occasionally hear some talk about how all the bonus points garnered by a tri-motored subjects are barely earned because, save for a few examples, there aren't many tri-motors that truly earn their keep with what seems to be the marginal motors and props they swing on the outboard. The

rules state "reasonable thrust." but seldom do these motors provide enough to actually fly the plane.

Well, I once did an experiment with my Boeing 80A tri-motored bipe. I made numerous flights with just the center motor, and other flights with the outboards wound. I found that while the ship was able to fly on just the center motor, it would not "punch through," consistently giving flights in the 40-second range.

With the outboards wound, it seemed to head up, angel-style for consistent minute or near-minute flights. Those experiments provided pretty good proof that these seemingly auxiliary outboard appendages do in fact add appreciably to the plane's overall power.

My approach to tri-motors is basically to combine one twin and one single-powered ship. All flight surface settings are whatever they



The author's 1928 Boeing 80-A, the first U.S. airliner designed for passenger comfort and convenience. It also employed the first female flight attendants. They had to be registered nurses and under 30 years of age. (Gilbert pics)

need to be for that configuration of airplane (high-wing, low-wing, bipe), so they aren't of great issue here. If you can trim a Piper Cub, you can trim a tri-motor.

Flying Wings

When perusing the flightline at an FAC contest you will see magnificent attempts by all kinds of modelers of planes of all configurations: Bipes, pusher canards, low-winged jobs and twins will litter the table, ready for scale judging and readily being ogled by other modelers. But nothing draws the eye towards itself in that "will-it-fly?" fashion as will a flying wing.

I believe folks are drawn towards this configuration because it seems to defy convention. Things "are missing" on a flying wing, even though the first airplane hands-on aircraft enthusiasts can put their mitts on is a flying wing! Yes, the lowly folded-paper airplane . . . so there's really nothing new under the sun, is there?

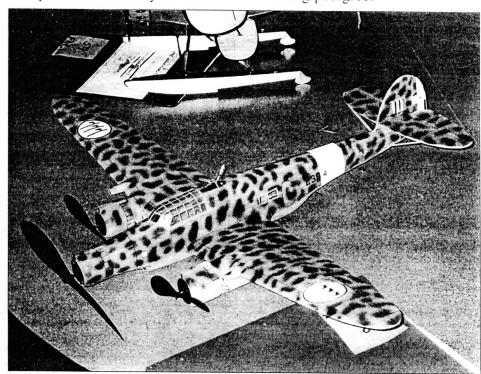
I was enraptured by Don Srull's Lippisch P-13 low winged, pushpull flying wing at the 1986 FAC Nats. I immediately bought both plans (he has built them as 26-in. span for FAC Scale and as 37-in. span for FAC Jumbo Scale). Yet I never built one. But the story doesn't end there.

I studied his article on these ships (July 1986 *Model Aviation*) until it was absolutely dog-eared. I even have parts memorized. This is not only because the article broke such ground as a flying-wing treatise, but because there are such nuggets in it for *any* type of rubber scale modeling that they render the article nearly biblical.

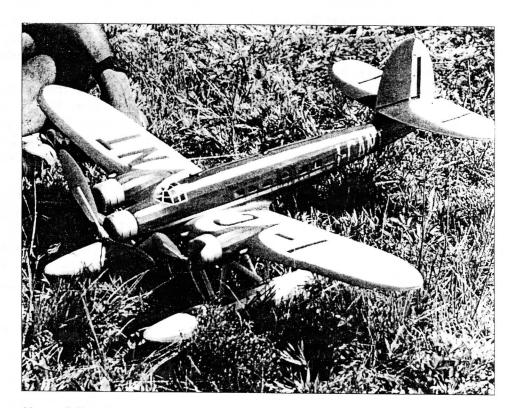
Go to the AMA Web site (www. modelaircraft.org) and or-der it pronto. You wont be sorry. Study that one and any article written by Dave Rees on his Coconut Scale ships and you'll be a successful and winning Rubber Scale mod-

eler, guaranteed.

And while you're at it, order the plan for Barnaby Wainfan's Cyrano 2 flying wing P-30. It features many solid innovations and a winning pedigree.



Spectacular Cant.Z1007 by Dave Rees (Goldsboro NC). This all-wood tri-engines ship formed the backbone of Regia Aeronautica's medium bomber was also used for reconnaissance and anti-shipping duties. Top speed was 280 mph.



Vance Gilbert's magnificent model of the Cant. Z506, which had a 24-yr career: 12-passenger commercial seaplane; bombing and torpedo duties during WW II; plus reconnaissance, troop and cargo transport. It then flew rescue until 1959.

My experience with scale flying wings speaks to three ships:

- A push-pull Lippisch sport lightplane that flew great under power and fell out of the sky like a leaf in the "glide";
- A 5-engined (three pushing, two pulling) Lippisch monster "dog" (based on a remote little 3-view that used up so much good 5-lb wood that I used wood out of its rib centers for a smaller project);
- A Northrop YB-49 bomber, successful enough to win Jumbo Scale at the 1987 AMA Nats in Galeville NY (with Don Srull's help and guidance, I might add). Plans of this beast were finally published in *Maxfax*, the DC Maxecuters' newsletter.

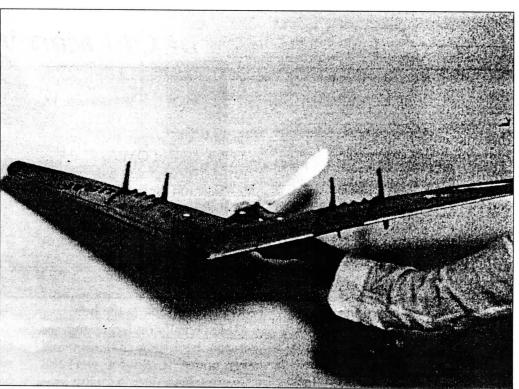
The 42-in. span YB-49 preferred a howling wind, was stable, and the prop on the rear-most portion of the center nacelle was all but invisible in flight. At 100 feet it was just a chevron-shaped silver glint. Truly impressive.

I wish I could say that this ship was some sort of innovation, but it wasn't. It really was a plan-view of the real ship with rib sections, washout, and dihedral all being an extrapolation of Don Srull's Lippisch designs.

The key to a swept-wing flying wing, as I see it, is that the tips act as tail, although Barnaby Wainfan refutes this idea, and hey, who am I to argue with him? That said, all I know is that the combination of;

- (1) sweep (sometimes extreme),
- (2) airfoil change—reflex to symmetrical to "upside down" at the tips;
- (3) dihedral (1.5 in. per 36 in span) and finally,
- (4) washout (.75-1.5 in. per 36-in. span) is extremely stabilizing, and Don's designs employ all of these "stabilizers".

I still don't understand why plank flying wings work as well



Vance's YB-49, which he says was a stable model that didn't mind wind at all. The original Northrop YB-49 was a conversion from the B-35. Modifications included installing eight turbojet engines and vertical aft fins.

as they do, but even Mr. Wainfan admits to a certain amount of "loop tendency" with his planks if one is not careful. This tendency is not an issue with the Srull reflex/change-airfoiled Lippisch.

Most impressive at the last FAC Nationals was Tom Nallen II's Pterodactyl biplane flying wing. I do believe that Tom had at least three of the aforementioned four flying-wing "requirements" (I believe his airfoil was a nearly thinned out Clark Y). It subsequently flew like it was on rails.

Other past great wing performers have been by Al Backstrom, Larry

Peavey and Frank Rowsome. The latter were flying Srull's Lippisch with 26-in. span. Frank's Lippisch made me a bridesmaid at the 2005 Non-Nats in Geneseo NY.

These ships are impressive and they fly. All of the wings I can think of also employ cut-away adjustable elevons (for turn tweaking), plus some down and side thrust adjustments.

Again I implore you to go download, purchase, or go rustling through the basement for that July 1986 Lippisch article in *Model Aviation*. I guarantee that your scale modeling will be posi-

I've messed with Model Airplanes quite a spell; When someone asks me why, I cannot tell – I wonder, though, what Balsa Vendors buy One half so precious as the stuff they sell.

Joe (Omar) Wagner

Having sat with me through our traditional post-Wawayanda debriefing session recently, Pete O'Tewbe, the self-proclaimed Poet Laureate of the FAC, retired to his customary table at the far rear corner of the Growlery Pub for several days, working himself into a creative frenzy via continuous ingestion of the Guinness, liverslices fried with crustcrumbs, and back issues of *Model Builder* that I supplied upon his command. The end result of his orgy of artistic indulgence is presented here for your pleasure.

-- Dave Mitchell

AS FLOWS WAWAYANDA, SO PROSE GROWS, FROWLY (The Cup) Pete O'Tewbe, PLFAC

If ever could a field of grass Be called both right and wrong; If ever was a plain could pen A sweet and bitter song, That field is Wawayanda, friends; Her emerald green attire Is rent by gashes deep and cruel. bestocked with muck and mire. But stay..... You have not been? You know her not? Then let me sketch the scene: She lies amongst the onion fields and rolling hills serene. Her scope is fair; her base leg long; Her clear hypotenuse Will stoke the flier's fierce desire to turn his creature loose. And should the wind be on the wing In line with all them ditches, You're like to shout "Almighty Hung!" And bless your lucky britches. But when the winds blow 'cross the cuts (and who's to say they won't?) You're thrice as like to find you swim as are to find you don't. Ask "Stinky" Ernst, who could not fly Except he take a bath: Or "12-Pack" Meyers, whose plane preferred The dark and drunken path... Or countless others, victims all, Sad knights of sticks and glue Who'll scarce refrain from sobbing "aye" When asked if I am true.

O, feeling dread! to watch the plane, Return'd from wond'rous flight That, as it circles to the ground Drops strangely out of sight! Consumed by Hades? Rent to dust? Did'st vanish in the air? Nay, but became a sodden mass A gnat in Neptune's hair...

...and there to lie 'til clenched and white, Its master's hand arrives. He crossed the field in double time In hope the bug survives, Leaping chasms, fleet with fear, His heart is in his cup And when he strains to grasp the plane He tumbles bottoms-up. Yet does it live? Is not the wing The same wing as before? Does not the fuselage, dripping wet. The motor still hold store? And is the sun not shining bright, The tissue but to dry, And is there any diff'rence to The casual passer-by? The answer echoes off the hills And fills the azure skye, "YES!" or "NO!" (depending on which question it supplies), And by the by, the ditch forgot. The fliers wind 'em up, And drink the heady wine that brims The Wawayanda cup.

THE CLEVELAND FREE FLIGHT SOCIETY

A.M.A. sanctioned Indoor Contest & Record Trials

Saturday, April 5, 2008 Kent State University Fieldhouse Schedule of events, (AMA & Jetco)

7:30 am, building opens (test flying)

1. Hand launch glider 8:00 to 11:00,

2. Standard class catapult glider

3. Unlimited catapult glider

8:30 4. EZB, scoring is the best of 5 officials. 5. F1L (1.2 gram EZB) To

6. Limited penny plane 6:00

7. Mini-stick, best flight of 5 officials

20 second minimum

9:00 to 3:00 8. 7 gram Bostonian, AMA rules

9:00 to 4:00

9. Jetco R.O.G., CFFS rules

FLYING ACES EVENTS

9:00

10. FAC Peanut Scale

To 4:00 11. High Wing Cabin Peanut

12. Golden Age Civil Scale

13. No-Cal Profile Scale, 3 flight total Minimumweight 6.2 grams without Motor.

14. Phantom Flash, best 2 of 5 officials

15. WW-II Combat, flown at 12:30

16. WW-II No-Cal Combat, minimum Weight, 6.2 grams without motor

Flown at 3:30

Please note; Different models must be flown in WW-II No-Cal & No-Cal Profile Scale.

The field house will be open from 4:00 pm until 8:00 pm For AMA Record Trials.

For your information;

1. All events are JSO combined. 2. Steering of models; as Per AMA rule book. 3. Entry fees, open \$30.00, Junior \$2.00 4. Very important; Yoy must provide your own table and Chairs. No indoor RC flying permitted during the contest and All flyers must have a valid AMA license.

Awards; Prizes will be awarded for 1st place in each event that there are three flyers with official flights. There will also be certificates. There must be 3 official flyers in an event to win a prize or receive a certificate.

Contest Directors: Michael C. Zand

5803 East Ash Rd.

Independence, Ohio 44131

216-524-3480 imzand@hotmail.com

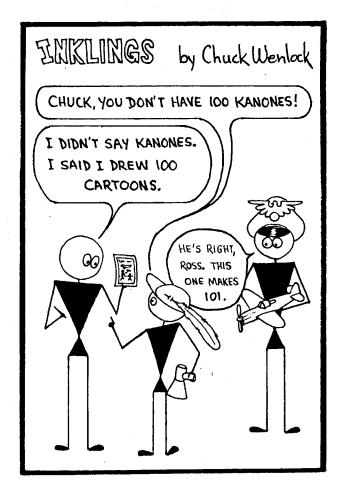
Don Slusarczyk 868 Eaglewood Dr. Willoughby, Ohio 44094 Don slusarczyk.com

Jetco ROG Rules

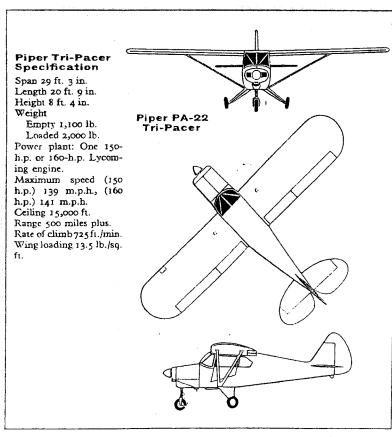
- 1. Build from plan with no structural changes.
- 2. Any commercial plastic prop may be used. It may be cut down to 5 1/2 ". Prop may be Altered by sanding and/or cutting to size.
- 3. Tissue covering.
- 4. Model must ROG.
- 5. Unlimited attempts. Official flight is 20 sec. 2 attempts equal 1 official. Best of 5 flights. An attempt is an ROG.
- 6. Any prop bearing or prop hanger may be used.
- 7. Center section of wing may be flat.
- 8. Minimum weight of model without rubber is 3.5 grams.
- 9. No camber (baggy tissue).

Phantom Flash Rules

- 1. Model must be built according to plan. Wheels Must turn and any type of prop may be used.
- 2. Markings must be on model, either cut from plan Or similar paper.
- 3. Rubber band to hlod wing is optional, but model Must weigh a minimum of 3.5 grams without motor. Scoring, total of 2 qualifying flights (20 sec. official)







FAC NEWSLETTERS BACK ISSUES. FAC-GHQ, 3301 CINDY LN., ERIE,PA. 16506 \$3.00 per issue, postpaid

> 189-115 Sept./Oct. 1999 192-118 Mar./April 2000 193-119 May/June 2000 194-120 July/Aug. 2000 203-129 Jan./Feb. 2002 208-134 Nov./Dec. 2002 217-143 May/June 2004 218-144 July/Aug. 2004 219-145 Sept./Oct 2004 220-146 Nov./Dec. 2004 221-147 Jan./Feb. 2005 222-148 Mar./April 2005 223-149 May/June 2005 225-151 Sept./Oct. 2005 227-153 Jan./Feb. 2006 228-154 Mar./April 2006 229-155 May/June 2006 230-156 July/Aug. 2006 231-157 Sept./Oct. 2006 233-159 Jan./Feb. 2007 234-160 Mar./April 2007 235-161 May/June 2007 236-162 July/Aug. 2007 237-163 Sept./Oct. 2007 238-144 NOV/DEC. 2007



ONE OF A KIND

by Fran Ptaszkiewicz

A true one of a kind design, this very unique circular wing aircraft was the product of a model builder by the name of Arthur Sack, a Bavarian farmer and most enthusiastic model builder, who beginning in 1940 and working alone in his private workshop, developed an unusual type of airplane.

After building, flying and testing this configuration for over six years in model form, Herr Sack then proceeded to construct a full sized man-carrying version he designated AS-6. This following his last test model the AS-5 which had a wingspan of 5.0 feet. Sadly I was unable to locate any information on what motive power he used in all his model attempts prior to the building of his full scale project. Best guess might be rubber or possibly a gas engine.

The AS-6 was of all wooden construction and had a wingspan of 16ft-4in with a total wing area of 128.75 sq. ft.. It was a single place airplane and the fuselage length was 21ft-0in. An Argus 10C-3 engine having 240 hp, driving a two bladed fixed pitch propeller provided the power. Flying surfaces consisted of cailerons, a fin and rudder which were fuselage mounted with the stabilizer-elevator being mounted to the fin. The fixed landing gear as well as the cockoit canopy appear to have been possibly salvaged from a Messerschmitt Bf-109. A tailskid rather than a tail wheel was also used.

During the completion of his AS-6, Herr Sack approached the personnel of a rockert fighter group that was equipped with the Messerschmitt Me.163 "Komet" aircraft. This fighter unit, I/JG 400 was located at Luftwaffe base "Brandis" near the city of Leipzig, Germany. There he asked them for assistance in carrying out testing of his design. They agreed. Ground and flight testing began in April 1944. Initial test's proved unsuccessfull and although Sack attempted to improve his airplane, the Luftwaffe at that point were more involved with their rocket fighter in the defense of the homeland and were no longer interested in continuing the project.

Interesting point here is the Sack AS-6 and the Me.163 "Komet" were both of a flying wing configuration.

I have not been able to locate any performance figures relative to the type of testing carried out and what the short falls in the design mat have been.

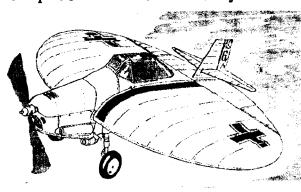
Sadly this airplane was given the unlikely name of the "Fliegende Bierdeckel" ("Flying Beertray") by some of the less than enthusiastic Luftwaffe personnel.

With the Russian troops closing in on the fighter base at Brandis, the field had to be abandoned and as a result the AS-6 was destroyed during the retreat. A rather sad and untimely end for this design.

It was unfortunate that Arthur Sack was unable to see the fruition of his design, created by his many years of continuos model building and test flying.

Who knows how close his full scale aircraft came to being a success-With not too much documentation available, it is difficult to envision what role this unusual airplane would have played in the Luftwaffes operations had there been more test work and time available.

I have to thank Bill Dahlgren of Glenview, Illinois for providing me with a good 3-view drawing which led me to do some research and resulted in the completion of this story of the "Sack AS-6".



WINTER OUEST 2008 US SOUADRON

CONTEST DIRECTOR – BOB SCHLOSBERG (480-941-8778) AL TERNATE – JOE McGUIRE (480-924-4313)

SUNDAY APRIL 20

AT THE CACTUS SQUADRON SKYLINE FIE 08:00 - 13:00

FAC COMPETITION RULES APPLY

CONSULT FLYING ACES RULE BOOK FOR COMPLETE RULES THREE NON-JUDGED (3 FLIGHT) TIMED EVENTS FAC OLDTIMER RUBBER EMBRYO ENDURANCE

TWO MASS LAUNCH EVENTS

GOLDEN AGE CIVIL SCALE

GOLDEN AGE CIVIL SCALE ** MODERN CIVIL SCALE **

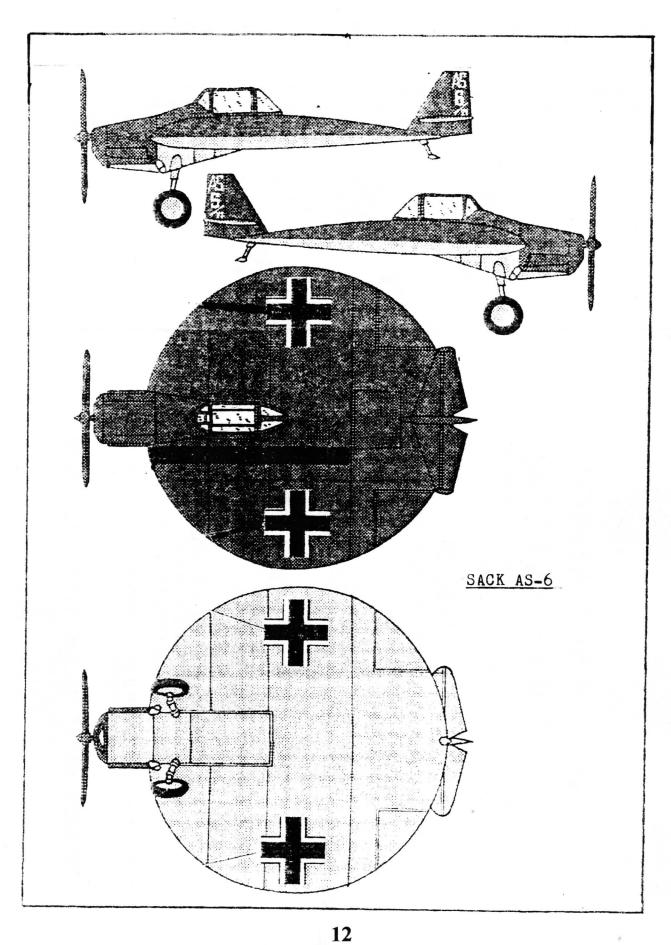
(**REMINDER - FOR THE CIVIL SCALE EVENTS THE 45 MIN. SCALE POINT CRITERIA APPLIES)

TROPHIES WILL BE AWARDED FOR 1ST & 2ND NO AMA LICENSE REOUIRED

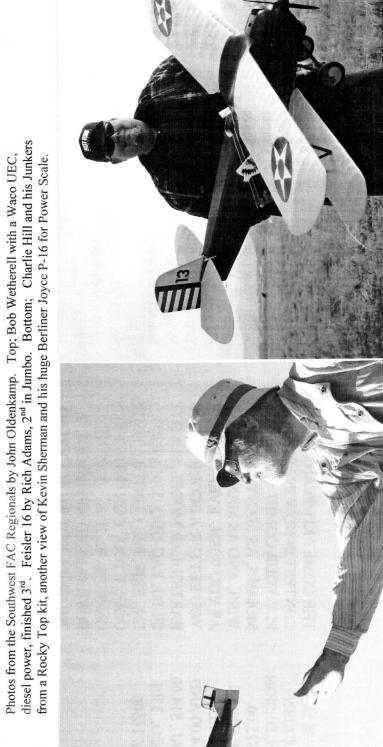
\$5.00 PER EVENT **ENTRY FEES**

MAX ENTRY FEE - \$ 10.00

ALTERNATE CONTACTS:







CAMCO KITS

FLEETWING, 16" SPAN, DESIGN-JIMMIE ALLEN SPECIAL, \$14.00 WOOD HAMILTON, \$14.00 AND CAMCO'S LATEST KIT IS NOW SHIPPING \$7.25. CAMCO, 3301 ALSO AVAILABLE; REARWIN CLOUDSTER,\$14.00, HOLLY-CINDY LANE, ERIE, PA. 16506 AVAILABLE; THE PITCAIRN ED BY DAVE STOTT, \$15.00.

POSTAL CONTEST

TIME. ENTER AS MANY MODELS ERIE, PA. 16506. CONTEST TIMES TO; FAC-GHQ, 3301 CINDY LANE, MODEL AND SEND YOUR TIMES ALSO COUNT. WHENEVER YOU **JUTDOOR NO-CAL. FLY YOUR** APRIL 30, 2008. ENTRIES POST-BETTER A TIME WITH A PART-AND AS MANY TIMES AS YOU CONTEST AS YOU READ THIS. WE ARE STARTING A POSTAL ICULAR MODEL SEND IN THE WANT. CONTEST CLOSES ON THERE WILL BE 4 DIVISIONS; MARKED AFTER MAY 1, 2008 NDOOR PEANUT, OUTDOOR PEANUT, INDOOR NO-CAL,

COMET KIT POSTAL

CONTEST IS NOW IN PROGRESS. LN., ERIE, PA. CONTEST TIMES COUNT TOO. CONTESTS ENDS THE COMET KIT/PLAN POSTAL WISH, AND AS MANY MODELS YOU BETTER A SCORE WITH A PARTICULAR MODEL, SEND IT 2008 WILL NOT BE ACCEPTED POSTMARKED AFTER OCT. 2, IN TO; FAC-GHQ, 3301 CINDY ON SEPT. 30, 2008. ENTRIES AS YOU WISH. EVERY TIME MODELS, AS MANY AS YOU FLY YOUR COMET SCALE

STERLING HTS., MI. IS LOOKING HAVE A PLAN IN THE 20" TO 30" WANTED; STEVE KANYUSIK, FOR PLANS OF THE KEYSTONE B-5 BOMBER. WOULD LIKE TO 4067 BROOKFIELD BLVD., WINGSPAN IF POSSIBLE

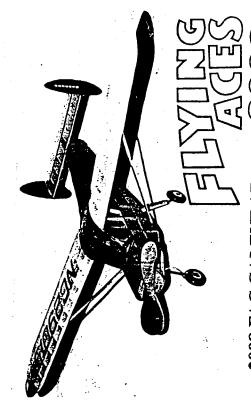


WILL NOT BE ACCEPTED

NEW PLANS AVAILABLE

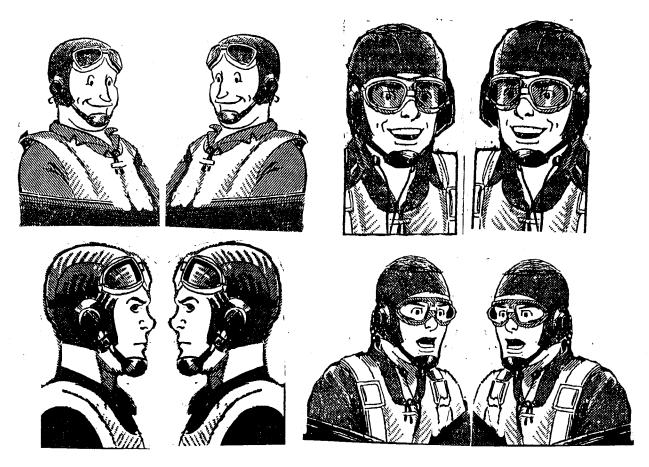
| Stout Outdoor O.T.R. | Model Aircraft | 30" | \$5.00 |
|--------------------------|-------------------|------|------------|
| Fairchild "24" | Sturiale 26" 5.00 | 26" | 2.00 |
| Curtiss Hawk P-6E | Megow | 20" | 5.00 |
| Sparky | Comet | 32" | 00.9 |
| Wolf (tow line glider) | Cleave | 30,, | 5.00 |
| Interstate L-6 | | 28" | 2.00 |
| Swoose (old time rubber) | | 25.5 | 25.5 5.00 |
| Sopwith 1/2 Strutter | Tom Nallen I | 20,, | 20" 6.00 |
| Vought Vindicater SB2U | Tom Nallen I | 22.5 | 22.5" 6.00 |
| Lavochkin La-11 | Tom Nallen I | 22, | 22" 7.00 |

Send a self addressed stamped envelope to; FAC-GHQ, 3301 Cindy Lane, Erie, Pa. 16506 for a complete list of Plans for sale.

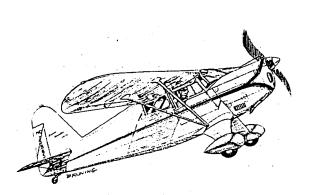


2008 FAC CALENDAR

WE STILL A FEW CALENDARS LEFT AND WE HAVE TO SELL FAC-GHQ, 3301 CINDY LANE, THEM BEFORE WE GET TOO ARE ONLY \$20.00 POSTPAID. FAR INTO THE YEAR. THEY ERIE, PA. 16506.



Some more pilots from Jake. Color them and glue Them back to back & glue them in your model.

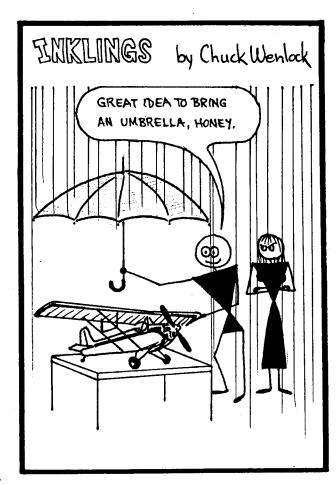


The T-shirt for this year's FAC
Outdoor Champs is now ready
For all you Clubsters. It is sure
A beauty! Design on the cover
Of this issue by Pres Bruning.
White shirt with the Rearwin in
Red, Beautiful!

1., lge., X-lge.,

15.00 each postpaid.
Send your orders to; FAC-GHQ,

3301 Cindy Lane, Erie, Pa. 16506.



CAPITAL AREA FREE FLIGHT ASSOCIATION

KUDZU FLYING CORPS

present

Spring 2008 Contest

AMA - FAC

Carolina Sod Farm (old field), Raeford, NC Saturday, May 17, 9AM – 5PM

Mass Launch Events:

- 10:30AM WWI Biplanes
- Combined Racers 11:30AM
 - WW2 Fighters 12:30PM
- 2:30PM Navy Airplane (any country, any era) 1:30PM. Modern Civil Scale

imed Events:

- AMA Hand Launched Glider
 - AMA Catapult Glider
 - AMA P-30 Rubber
- AMA Towline Glider A1/F1H (100 Foot Towline)
 - FAC Jet Catapult Glider
 - Unlimited Jet Catapult
 - FAC Embryo
- FAC Golden Age
 - FAC Dime Scale
 - Peanut
- Junior Ready to Fly No Fee (Plane and rubber provided by CD)

Dave Rees Vega – Mass launch if we have 5 or more entries Less than 5 entries will be flown with the Golden Age timed event

Entry Fee - \$5.00

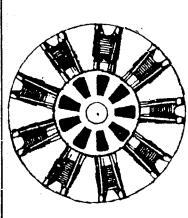
CD: John Diebolt (919) 467-1025 jdiebolt@mindspring.com Maps to flying field available upon request 526 Heater Drive, Cary, NC 27511

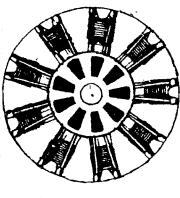
Awards to Third Place

HERE ARE THE ANSWERS TO THE I.D. CONTEST IN THE LAST ISSUE

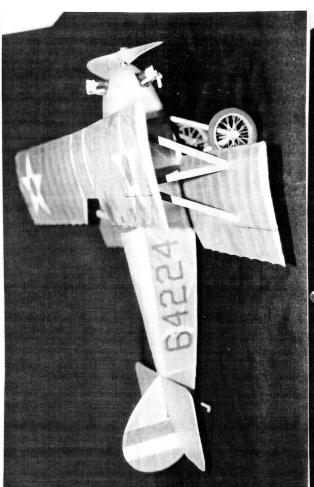
McQuaid from West Reading, Pa. Because there were only two wrong on only two of the aircraft. The other entry was from Ed the winner was Frank Beatty from Granite City, II. Frank was copied right from the magazine. We had only two entries and Here we have the answers and the winner of last month's I.D. entries we decided to give them both a prize for their efforts. favorite magazine of old, "Flying Aces". The answers were Each will receive a copy of an old "Flying Aces" magazine. contest. This contest came right out of an old issue of our

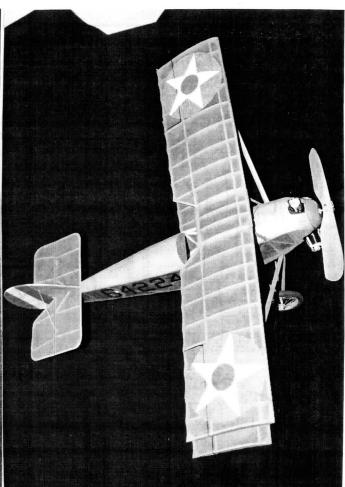
- Boeing Monomail—Hornet engine (Pratt & Whit-
 - 2. DeHaviland 5 (war-time)—LeRhone 110 h. p. en-
- Curtiss 01G (Falcon)—Prestone Conqueror engine. Handley-Page Hannibal—Four Bristol "Jupiter" 450-500 h. p. engines. Curtiss 02C-1 (Hell-Diver)—Wasp engine (P. &
 - - W.) 500 h. p. engines. Dewoitine D.33—Hispano-Suiza 650 h. p. engine. Ö
- Great Lakes Sport Trainer—Cirrus 90 h. p. engine. Fokker XO.27 Observation—Two Prestone Con-
- Consolidated Fleet Trainer-Kinner 125 h.p. engine.
 - Fokker D. VII-Mercedes 180.220 h. p. engine. Curtiss AT-5-Wright J-5 220 h. p. engine.
 - Bristol Bulldog-Jupiter engine.
- General Mailplane—Wasp engine. DeHaviland Moth—Gypsy 90 h. p. engine. Barling Bomber—Six Libertys, 400-450 h. p. each. 25.4.2



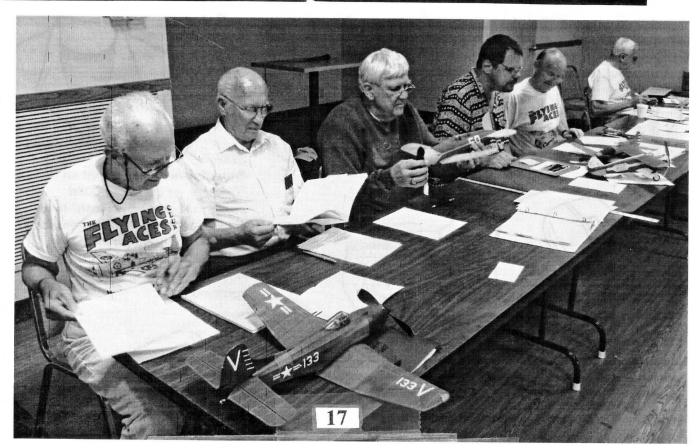


Here are some more engines from Jake Larson





Two photos by John Blair of his Sperry Messenger. John's plan is in this issue.

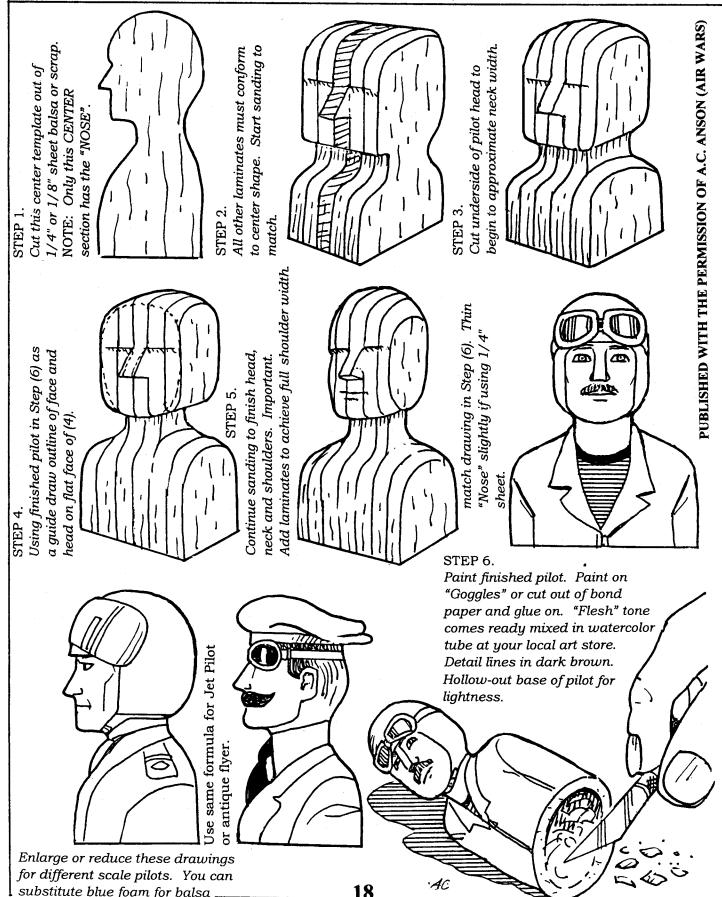


Judges at work at the 2007 FAC Non-Nats. Left to right; Jack Moses, Fred Wunsche, Fred Gregg, Chris Starleaf, Pres Bruning and Fran Ptaszkiewicz.

Bob Clemens

CARVE YOURSELF A BALSA PILOT

You don't have to be a sculptor to use this simple six-step formula to achieve realistic looking pilots. And...you'll get brownie points from scale judges!



OF MODEL PLANES AND LITTLE BOYS

My eight year old looked up at me And heaved a heavy sigh... "What seems to be the trouble, son?" I asked the little guy.

"I've got nothing to do," he said; "It's too hot for playing ball; I've won all my computer games, And T.V. bores me most of all."

"I've got an idea, buddy boy; Let's build a model plane."
"Gee dad, that sounds like fun," he said;
"Something different for a change."

So we drove to the hobby shop And he picked out a kit... He liked the picture on the box; Couldn't wait to open it.

When we got home and looked inside, He thought we'd been short changed... Just some sticks and tissue there; No sign of the aero-plane.

"This don't look like the picture, dad; Where are the wings and tail?"
"We have to build those things," I said; But not with hammer and nail.

I taped down the construction plan; Got the hobby knife and glue. We'll have to measure carefully, Cut, sand, and cement too.

For nearly a month of weekends, Building the airplane was our lot. "When will it be be finished, dad?" Instant gratification?---- NOT!

He had to learn to read the plan, And perform each step just right. And, when at last, the frame was done It checked out true and light.

Then came the tissue covering... (The trickiest job, no doubt) It must be stuck down carefully, Then shrink the wrinkles out.

At last our plane was ready, And we installed the rubber band. We took it to an open field And wound it up by hand. You've done a good job building, son, But to be sure and launch it right, You'd best let me be the one To send it up on this first flight.

That first flight ended with a stall, After curving to the right. Nose weight and thrust adjustment Then straightened out the flight.

"Now that it's adjusted," he said, With a twinkle in his eye, "Didn't I help to build it, dad? When is it my turn to try?"

I looked down at my little lad, Thinking of the hours spent In loving cooperation; And what this time has meant.

He's learned the value of a plan; Of instructions followed through; Satisfaction of a job well done; And of having patience too...

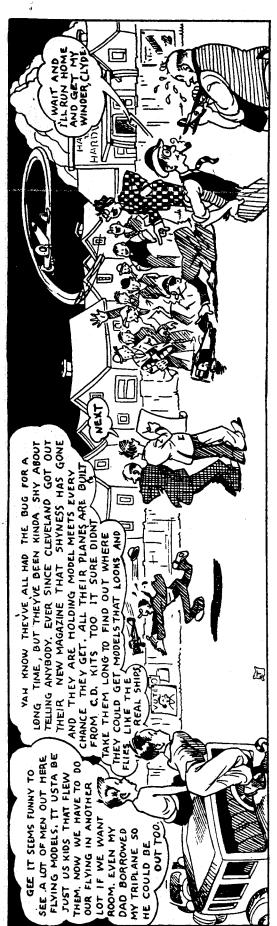
Then, as he faced the gentle breeze And, with a little push, let fly; We watched with pride our little plane Climb into the clear blue sky...

For all the dads who love airplanes..

And all their little boys

BY C. Alan Reggio





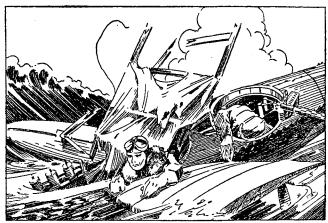
They Had What It Takes

XV-MAJOR ALEXANDER de SEVERSKY-MASTER DESIGNER

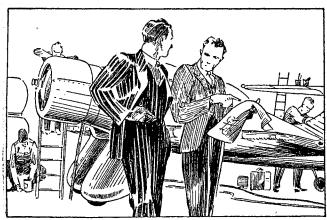
By ALDEN McWILLIAMS



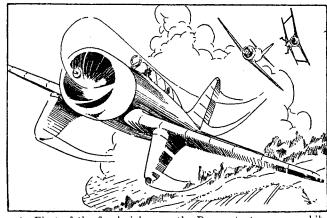
1—Alexander Procofieff de Seversky—called "Sascha" by his friends—was born at Tifflis, Russia, in June 1894. He enjoyed a good education. Then when the War broke out, he joined the Russian Naval Air Service and was stationed in the Baltic Sea area. Here, he developed a practical pontoon-ski undercarriage and won immediate recognition from his government.



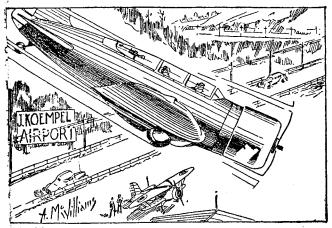
2—But Fate was not smiling. For Seversky was shot down on his first battle flight—a bombing raid over the Gulf of Riga. His observer was killed, and he himself lost his right leg in the crash. Nevertheless, Seversky came through this blow undaunted. Fitted with an artificial limb, he took to the air again and accounted for 13 enemy ships before Russia quit the War.



3-When a U.S.-bound aero mission to which he had been named was nipped in the bud by the Revolution, Seversky came on to America anyway, became a citizen in '27, and a Reserve Corps Major in '28. Then, in '31, the brilliant Russian formed the Seversky Aircraft Corporation at Farmingdale, L.I., and took up the multiple duties of president, designer, and test pilot.



4—First of the firm's jobs was the Demonstrator, an amphibian featuring a wheeled-pontoon gear. It proved its mettle by chalking up a 230-m.p.h. speed record, whereupon Seversky revamped it into landplane form and entered it in a military competition. Swivel-chair experts greeted this move with ridicule—but the sleek ship quickly won a 35-plane Army contract!



5—That plane became the Army's renowned BT-8 basic trainer. Then another Seversky—the striking P-35 pursuit—reeled off 315 m.p.h., "clicked" in similar fashion, and brought an additional government contract for 85 ships. At present, the famed lesigner is demonstrating still another job in South America. This is his new 300-m.p.h., 7-gun, 2-place "convoy fighter."



6—Since the day, years ago, when the Czar presented him with a gold sword in honor of his War achievements, Seversky has won ever-increasing repute. He is celebrated not only as one of the world's half dozen top-flight aircraft designers but also for his invention of the bomb sight used by the U.S. and Britain and for his development of a device for mid-air refueling.

BUILDING TIPS

From Bruce Conway; To transfer paper patterns to wood, or copying balsa parts sheets from collectable old kits. First copy to black line on white paper. Use white out to clean up the copy. Next copy in reverse image on heat transfer (t-shirt transfer) paper. Finally, place over your balsa wood and with iron on hotter'n'hell, iron on to the balsa wood. Pull the paper up as you go. Takes a little practice but can be fine enough to help in restoring old kits as well.

"Punch out" parts falling out in your old kits? Sheet wood splitting? Temporarily tape small tabs--the face side, then spray glue a fine white tissue to the back side of parts sheet. Will hold forever. This is also a good way of adding strength and avoid splitting small parts when cutting them out for building.

From Chris Junker; I always copy print wood before cutting out the pieces. They are then mirror printed. The mirror printed pattern is then laid on the balsa with copy side against the balsa. I then wipe through the copy paper with a paper towel soaked in acetone which gives a clear print onto the balsa.

From Larry Aycock; This is a poor man's method of making decals, I use copier paper cut into 3" X 5" squares or larger depending on need. Tape each corner down to cardboard that has been covered with Saran Wrap. I then use thinned white Elmer's glue-all. (straight from the bottle is too thick) I mix it with water until I have a consistency that is easily brushed, I use a ½ " artist brush. I coat the paper with one coat of glue and let dry using a fan for faster drying. After the glue on the paper has thoroughly dried, I then begin to spray several very light coats of pigment paint over the glue surface. (too much paint, too quick, tends to soak through the glue and holds it to the paper much longer) After the paint has dried it can be cut into numbers and letters. It takes about 3 to 5 minutes in the water for the painted strip to turn loose from the paper.

From John Blair;

AN INFINITELY ADJUSTABLE THRUST LINE

BRASS
BEARING

NOSE BLOCK
FACE PLATE BEARING
HOLE

BRASS

SMALL SCREW
SMALL SCREW
SMALL SCREW
BRASS
AND WASHER
BEARING
HOLE

SAW THIS IN A MAGAZINE MANY YEARS AGO. NO MORE
UNSIGHTLY WOOD SHIMS! "WORKING" NOSE BALLAST!

O've used this for a long time. Ot
makes "fine trimmin" really easy. On
a nice scale model, you can make an
attractive nose block and not worry about
"messing it up" with shims.

FLYING ACES NATS DAILY EVENT SCHEDULE

| Thursday July 17 | Friday July 18 | Saturday July 19 |
|------------------|----------------|------------------|
| FAC Scale | FAC Scale | FAC Scale |
| Jumbo Scale | Jumbo Scale | Jumbo Scale |
| Giant Scale | Giant Scale | Giant Scale |
| Pioneer Scale | Pioneer Scale | Pioneer Scale |
| Power Scale | Power Scale | Power Scale |
| Fiction Flyer | Fiction Flyer | Fiction Flyer |

Events listed for all 3 days can use all 3 days to get in their 3 flights. We will use the 3 flight average of your flights. If you fly 1, 2, or 3 flights your total flight score will be divided by 3 for your flight score.

| Hi-Wing Peanut | FAC Peanut | GHQ Peanut |
|-----------------------------|------------------------------------|------------------------------|
| Shell Speed Dash (Greve) | Thompson Race* | Greve Race* |
| Shell Speed Dash (Thompson) | B.L.U.R. Race | O.T. Gas Replica |
| World War One Dogfight* | World War Two Combat* | Goodyear Race* |
| No. Am. AT-6 Race* | Guillows Fairchild 24* | Military Low Wing Trainer* |
| Old Time Stick | Old Time Rubber R.O.G. | 2 Bit + 1 O.T. Rubber R.O.G. |
| Embryo R.O.G. | Dime Scale | Old Time Sparky R.O.G. |
| Jimmie Allen R.O.G. | Rapier Jet Scale | Jet Scale (rubber power) |
| Modern Military | Golden Age Military | Old Time Kit/Plan Scale |
| Golden Age Civil Scale | Modern Civil Scale | Aerol Race |
| Contra-Prop Scale (rubber) | No-Cal Scale, depends on the weath | ner what day we fly. |

Events marked with an asterisk are mass launch events. The Greve Shell Speed Dash, Greve Race, World War Two and the North American AT-6 events will use the 15% rubber rule. The No. Am. AT-6 models must also use a 7 inch Peck plastic prop.

The following models must fly in their own events; Dime scale, Rapier Jet scale, Rubber Jet scale and Pioneer scale with this one exception, Pioneer Dime models must fly in the Pioneer scale event!

Plans must be presented in the Fairchild 24, Dime Scale, Two Bit + 1 Old Time Rubber and the FAC O.T. Kit/Plan events. These events will be judged on the field. It is also your responsibility to get your Embryo models judged on the field. Golden Age Civil & Golden Age Military, Modern Civil & Modern Military models will be judged on the field after their first flight. Bring your documentation!

Scale judging will commence at approximately 2:00 pm om Wednesday July 16th at the Quality Inn. This includes the Jumbo & Giant models as well. No one admitted to the judging room before 2:00 pm. Vendors may set up after 12:00 pm.

* * Blockage and Drag * * Mumbo Jumbo # 133 by the Glue Guru

In choosing a prototype for scale modeling we feel uneasy about the choice between draggy configurations. Obviously anything encumbered by radiators, bombs, guns, fuel tanks, etc. will provide extra drag serving to hold down endurance. At issue is: how much? Will that extra bit of blockage ruin everything?

Good tests in this area are rare. NACA meant well, but their basic output of data was aimed at full scale designers, and not really applicable to our needs. One series of truly useful tests was run by MIT back in the days of the Great War [FLIGHT; Sept. 13, 1917; p.946]. Here wind tunnel engineer Alexander Klemin was interested in the effect of blockage on wing performance, as given by the resulting L/D ratio.

This ratio describes the drop in altitude per unit of horizontal traverse. For example, if in glide, the wing altitude drops one foot for every ten feet of horizontal movement, the L/D is ten; if half a foot of drop for every ten feet of motion, the L/D is twenty and so on. For most of the wings we use, twenty is a very respectable, desirable number.

For test purposes, he used a rectangular 18 inch span, 3 inch chord size wing, carved to a section rather like the flat bottomed Clark-Y that most of us use. To this he added a high drag block, simulating a radiator, some 2 inches long and 3/8 inch square. At all times it was placed against the flow, with its long dimension parallel to that of the wingspan.

For test purposes, he mounted the block at a number of spots. These included: (A) on the top surface at 20% chord back from the leading edge;

(B) on the top surface at 80% chord back from the leading edge.

- (C) on the bottom surface at 80% chord back from the leading edge.
- (D) on the bottom surface at 20 % chord back from the leading edge.

With the block screwed on, he proceeded to run classic wind tunnel L/D tests, varying angle of attack while measuring lift and drag. For our purposes, the maximum value he obtained for each of the A,B,C, and D configurations is a good index to performance.

With no block at all – just the bare wing – he got 17, which is pretty good. Going to (A), the resulting maximum was 6, which is terrible. The (B) setup offered a max of 11; that of (C) equaled 13; and so did (D)—it offered the same value of 13.

What can we conclude? Blockage effect varies according to the location of the block. All wing blockage lowers wing efficiency, but that placed on the top surface is much more detrimental than the same block located on the lower surface. However, if a radiator must be placed on top, try to locate it towards the trailing edge.

Best is location on the lower surface. Here, results don't depend on fore and aft positioning. You can put that radiator just about anywhere down under and the resulting L/D should still supply a decent glide.

An Advert for Myself

For the Glue Guru type of reasoning extended to the Red Baron's fighting and flying, you might check out "Three Wings for the Red Baron" and "Gunning for the Red Baron" by Leon Bennett, available at all the usual bookstores including Amazon and Barnes & Noble.

30th ANNIVERSARY OF THE FLYING ACES NATIONALS!!!

REGISTRATION FORM--FAC-NATS MK, XVI--GENESEO, N.Y. July 17, 18, 19, 2008

| (please print) | | | |
|--|---|--|---|
| Name | Address | Jr | Open |
| City | StateZip_ | AMA or MAAC N | No |
| Entry fees at \$25.00 | each (flies all events) | | _\$ |
| Banquet tickets at \$ | 30.00 each with no dormitory | reservations | \$ |
| Reservations for do | uble occupancy with meals & | banquet at \$200.00 each_ | \$ |
| Reservations for sin | gle occupancy with meals & b | panquet at \$250.00 each_ | \$ |
| | | Total enclosed | |
| MAAC. Please rem 3301 Cindy Lane, E to share a room with | rie, Pa. 16506. We will be un | so as to ease paper work lable to refund cancellation refund to refund the refund in the refunding to the re | members of the AMA or the ater on. Mail entries to: Lin Reichel ons after June 20, 2008. If you plan he university to set up the proper |
| | e places in each event. Conte 00 pm & July 19 th , 8:30 am till | | uly 17 th , 8:30 am till 5:00 pm, July |
| of N.Y. Geneseo, the contest from any lia | e Flying Aces Club, Inc., all o | ther persons and other or sincurred while participa | in Wadsworth, the State University ganizations connected with this ting in this contest. I/we, also agree |
| | SIG | NATURE | |
| | | | |

We can use some volunteers to help out in various areas of the contest such as scale judges, event directors, etc. If you can/will spare a little time and help out it will be a great help for the rest of us who devotes the whole time there to making this contest a success. If you are willing to help please notify GHQ as soon as possible.

We are also looking for event sponsors and prize donations. If you are willing to help out in this area it will be greatly appreciated also. It takes all of this effort from a lot of people to make this thing work!

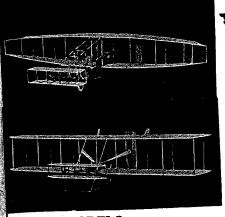
A note on the price of the banquet, sorry for the big increase in the price but the Quality Inn is now running all events held there. Since the renovations everything has gone up in price there.

DON WILSON 116 MAIN STREET E **GRIMSBY, ONTARIO L3N 1N8**



HC 8101 HC 8003

Peanut Scale 13" Wingspan, Laser Cut Parts, LC-001 CUB LC-004 Citabria LC-002 ME 109 LC-005 Mustang LC-003 Spitfie LC-006 Rearwin Speedster



\$20.00 STATIC MODELS 1903 Wright Flyer - 24" Wingspan (laser cut parts) Silver Dart (Bell Museum) 241/2" Wingspan

\$36.00

Hobby Craft Kits- \$25.00

HC 8001 Citabria

19 3/4" HC 8002 Waco-bipe 22 7/8" HC 8003 Super Chipmunk HC 8101 P-51-Mustang

HC, 8103

H 8102 Spitefire H 8103 P40 Warhawk

Note: Limited number of kits



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All sizes available Light balsa on request 5 to 7 lbs.

FAA SELECT GRADE BALS. New Product

| 1/64 balsa sheet 18" long | Light Wood- 5#-7# |
|--------------------------------------|--------------------------|
| 3" @ \$1.50 | $1/1.6 \times 3 = 3.00 |
| Can be 36" long extra for shipping | $3/32 \times 3 = \$3.25$ |
| 1/32 x 1/32 x 18" bass or balsa wood | $1/8 \times 3 = 3.50 |
| laser cut @ \$0.20 strip | 1/16 X 4 X 24 in. 2. |
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 $1/16 \times 3 = 3.00 $3/32 \times 3 = 3.25 $1/8 \times 3 = 3.50 1/16 X 4 X 24 in. 2.65 Tel: 905-945-5647 also 1/40 - 1/32 - 1/25 - 1/20 sheet

Fax: 905-945-4169 @ 1/16 sheet prices. 1/16 x 3 36" 1.81 Email: lcdw@sympatico.ca



TB1003 H.D.4

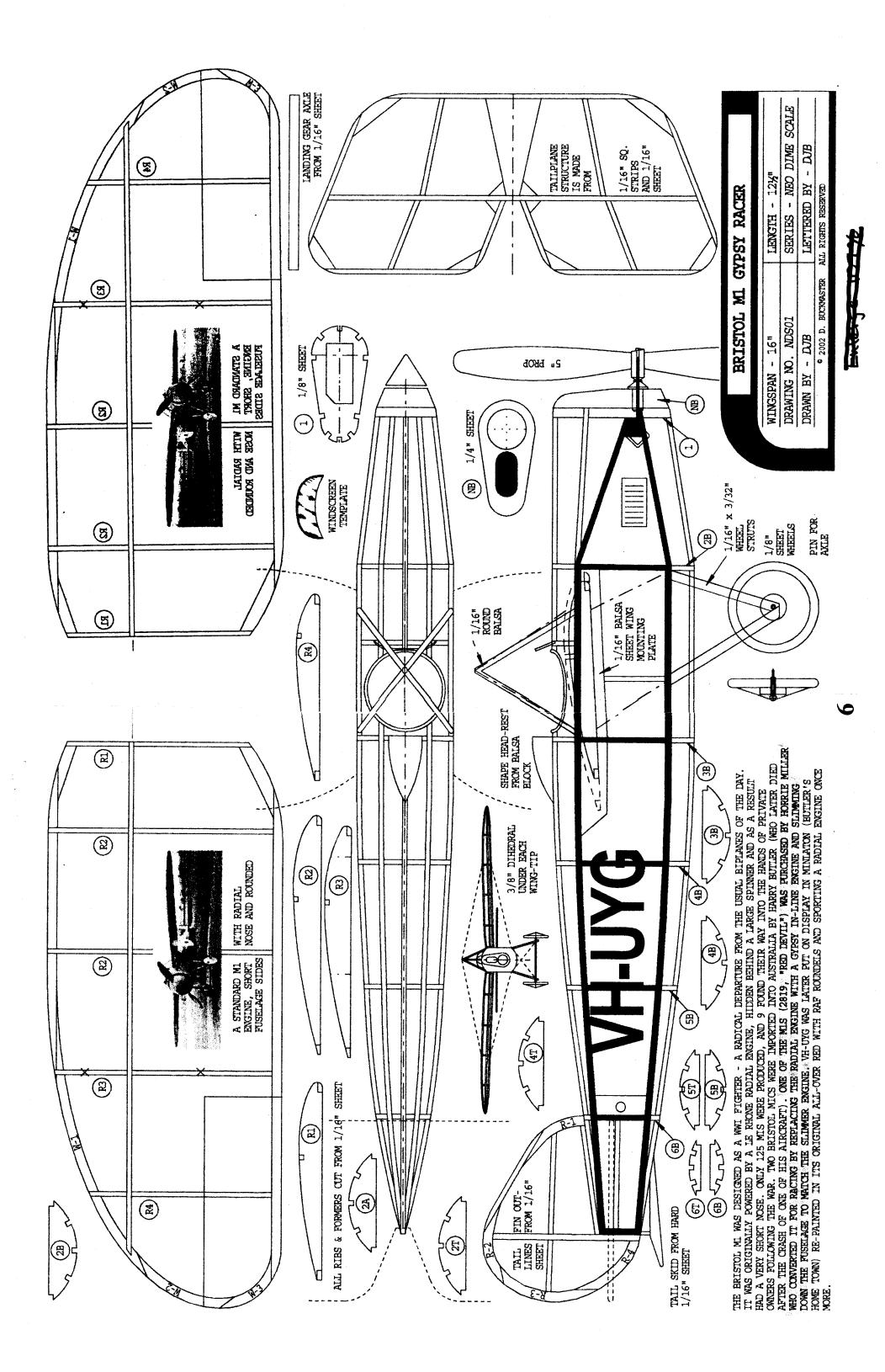
BOAT HYDROFOIL GRAHAM BELL 1907

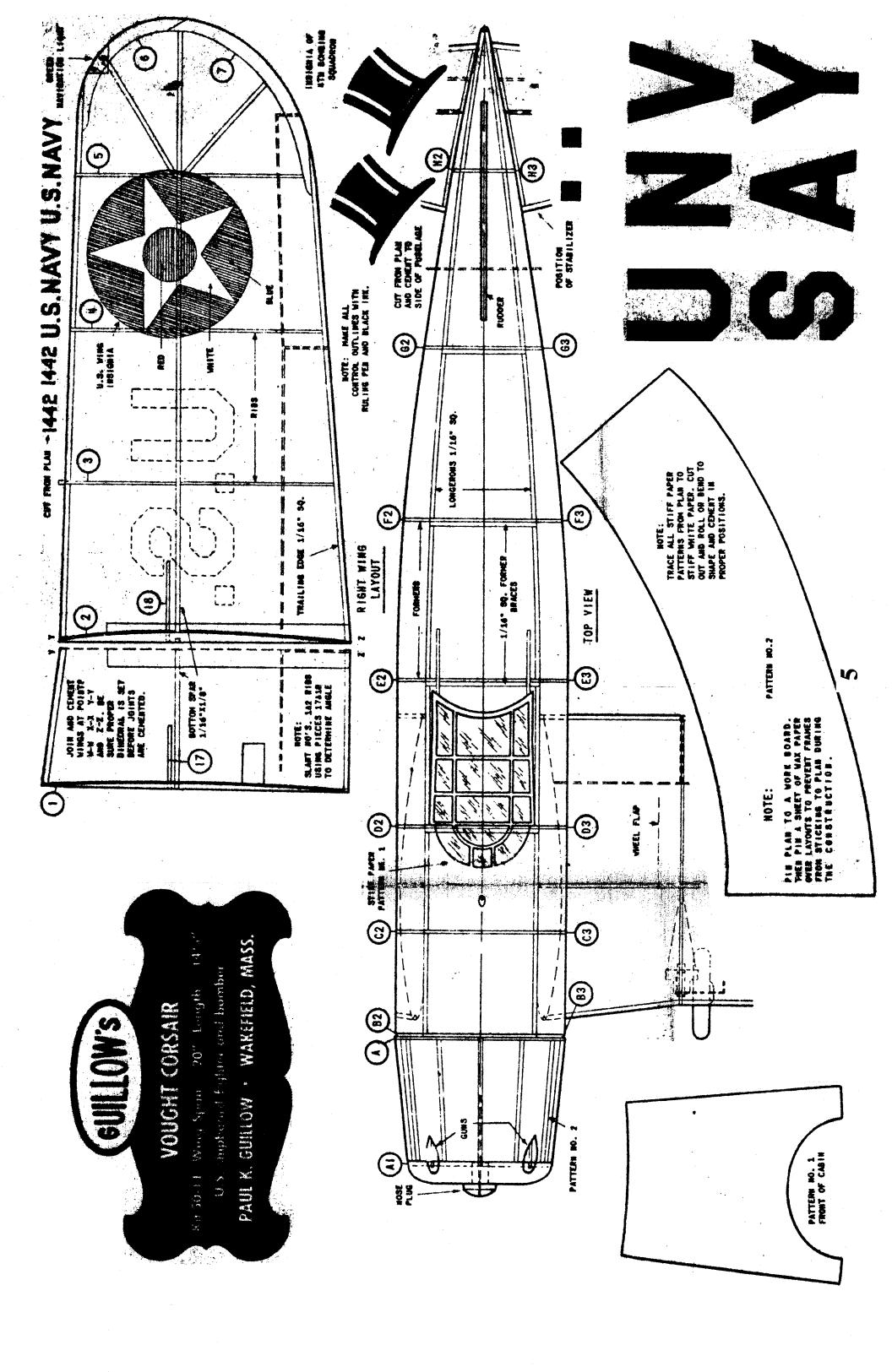
30" Long

DON'S FLY LITE TISSUE (White, Wet Strength 10 Sheets 25" x 36" (9 grams per sheet - same as Silkspan)

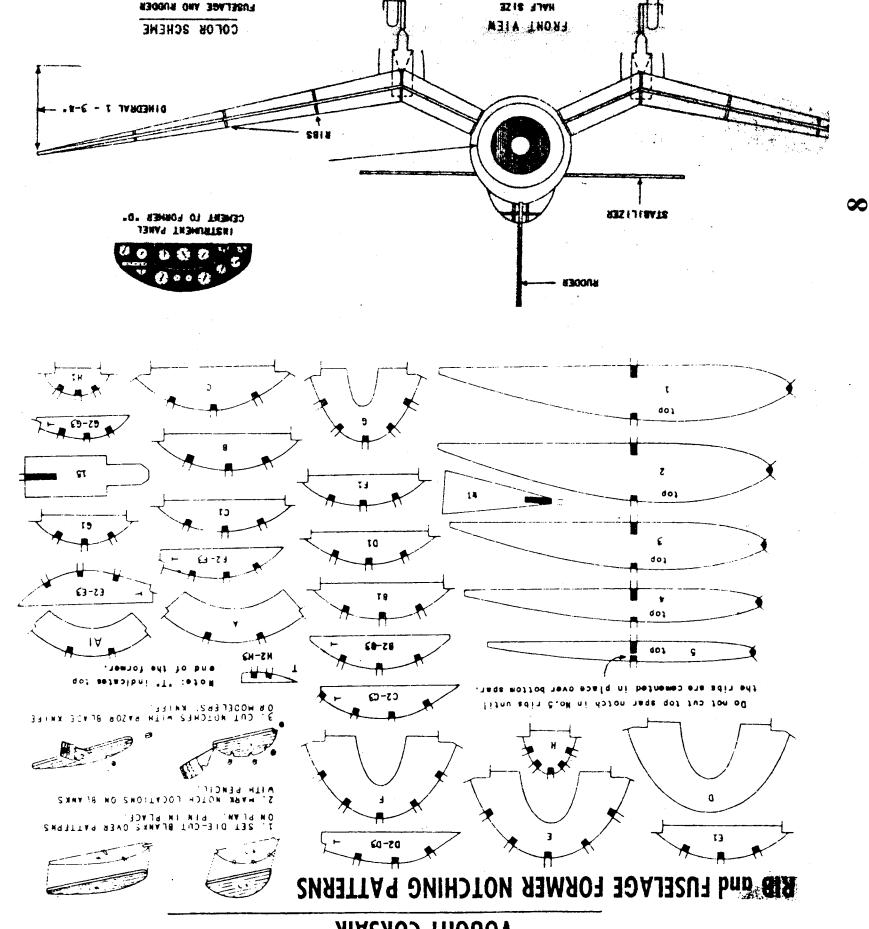
| | - \$8.00 | Postage 33 | 3.00 |
|----------------------------------|---------------|-----------------|------|
| Cheque or money Allow 3 weeks | | Total Order | |
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| | Canada Tax ps | 18% . 25t . 50% | |

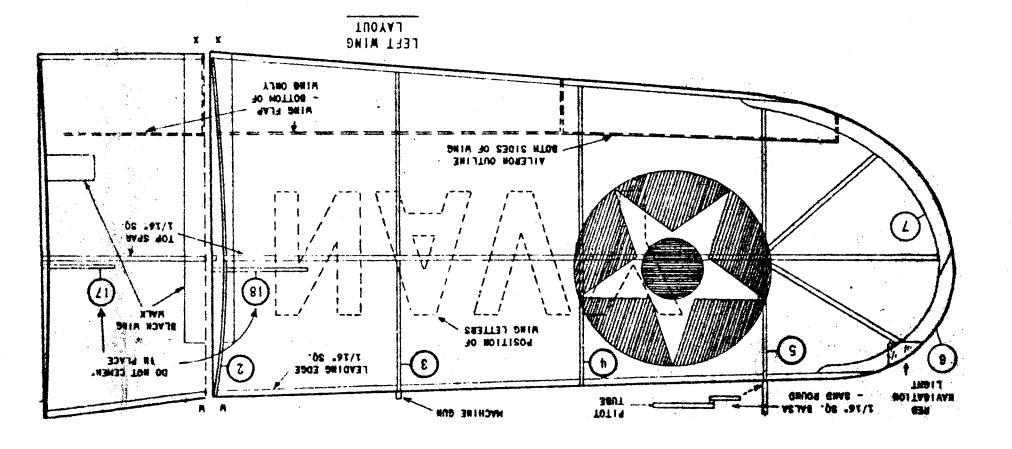
FRT. 15% : Order, Min \$6.00





VOUGHT CORSAIR





MMEELS AND WING MALKS - BLACK, STABILIZER - YELLOW, - BLUE, WING MALKS - BLACK,

