

REPLICA



Newsletter of the National Association of Scale Aeromodelers

MAR/APR 2015

WEATHERING SCALE AIRPLANES

Gerry Yarrish, editor of Model Airplane News magazine, has shared another one of his great tips. Below is a snippet to wet your appetite. To read the entire article, click this link: <http://bit.ly/1900fBS>

So you've finished painting your new scale airplane and it looks nice and shiny and brand new. You check your model one more time against your photo documents of the full-size plane and there's something just not quite right... What is it?



Well, it would be a safe guess that your full size subject airplane, even if is a nice and shiny freshly painted aircraft, when you look at it, it will seem toned down a little bit. It's just not as shiny and crisp as your model. Why? The answer is a little surprising.

Say your new model is 1/4-scale. So, if you look at your model and then look at your full size subject, if they are viewed so they are relatively the same length, your full size plane would have to be four times away from you to be the same relative viewing size. So what? Well, there's four times as much air between your eyes and your subject. This really does make a difference. And, there's other very subtle differences even close up...

Read the rest online!

GERRY YARRISH
gerry@airage.com

NASA AIRPLANE RAFFLE

To raise funds to help with the expense of the Scale Nationals operations, we are selling raffle tickets to a brand new, fully completed, TopFlite 50cc Zero ARF.

Once again, Dick Petit has donated his time and skill to assemble this fantastic scale airplane for us. Dick was also



instrumental in getting several other companies to donate items needed to complete the process.

The model is completely finished, test run, and test flown. It is eligible to enter in either the Fun-Scale, or Open classes with the appropriate documentation, as well as any giant scale fun-flys.

Tickets are \$5.00 each, 3 for \$10.00 or 7 for \$20.00 and can be purchased through the NASA website. We can also send any number of tickets to those willing to sell them. The drawing will be held Saturday night at the picnic at the 2015 Scale Nationals.

Please everyone, help sell tickets and support NASA in our quest to make the Scale Nationals better than ever.



CLICK HERE TO BUY YOUR RAFFLE TICKETS

To see the raffle Zero's build, visit NASA's Flickr site by clicking here.

NASA OFFICERS

PRESIDENT

MIKE BARBEE

3903 Whispering Creek Lane
Delaware, Ohio 43015
740-362-5504
mabarbee@aol.com

VICE PRESIDENT

DALE ARVIN

3428 Charlestown Pike
Jeffersonville, IN 47130
812-284-0162
darwin8094@aol.com

SECRETARY/TREASURER

TINA PATTON

572 Cedar Pointe Drive
Somerset KY 42501
217-377-7115
tpatton60@sbcglobal.net

REPLICA EDITOR/ NASA WEBMASTER

MARK LANTERMAN

7414 Burton Drive
Liberty Township, Ohio 45044
513-755-7494
mark@airbornemedia.com

PRESIDENT'S NOTES

Hello fellow scale modelers. I hope this winter has given you time to create a new scale masterpiece. I got a lot done between snows and trips to sunny Florida. The contest circuit is quickly approaching. NASA has many flying events and symposiums planned. Starting with the big Toledo show. John Boyko and I will be doing a two hour symposium on Friday and Saturday room 104. Building tips and discussions will be the first hour and flying in scale competition will be the second.

Rough River State Park will be re-visited again but in a slightly different prospective. This year the format will be a fun scale fly-in embellished with symposiums ranging from judging, to composite building, and everything in between. Mark your calendar and make reservations for May 16-17.

The next event is the new venue for the Old Mint Julep. One of the finest flying sites in the country and the friendliest host club you will ever experience. The Ohio River View Fliers will host the oldest running scale contest in the world. Dates for the Rosewood Indiana. The event is June 13-14.

Hot off the presses is the Buckeye Scale Classic at a new field. John Boyko will CD this event at the TORKS flying site at Deer Creek State

Park, near Mt. Sterling Ohio. This is a new but beautiful site with a lodge, camping areas, and just about anything you need to relax with the family. Dates for John's event are July 11-12.

After that, will be the AMA Nationals at the Muncie, Indiana. Here we have a reunion of all the scale disciplines during the month of July. Scale R/C and C/L scale are July 17-19.

Hot August weather brings us to Seymour, Indiana for the Hoosier Scale Classic. Another proven event hosted by Steve Ort. Dates are August 3-5.

The last contest before the huge NASA Scale Championships will be the Columbus Scale Classic. This year the WMAA has again agreed to host. We will celebrate National Model Aviation Day on Saturday. The Columbus dates are August 15-16. Proceeds from your entry fees will be donated to the Wounded Warrior Project. Come out and fly on one of the finest grass runways in the world and I will buy you dinner Saturday night. All pilots and guests are welcome to Mrs. Barbee's Monster Hangar. She would like those planning on attending to pre-register.

So modelers I have a couple of requests: renew you NASA dues, and buy your raffle tickets. Oh there is one more - get a fellow pilot involved in scale modeling bring a friend to the fray.

MIKE BARBEE
mabarbee@aol.com

**CLICK HERE
TO BUY YOUR
RAFFLE TICKETS**

**More info on the
NASA 2015 Raffle plane
is on page 1!**

robart

www.robart.com

625 N. 12th Street
St. Charles, IL 60174

P: (630) 584-7616

Retractable Main Landing Gear

Robart part number TFZERO.
Available in electric or pneumatic.



Retractable Tailwheel

Robart part number 160WC.
Available in electric or pneumatic.



Aluminum Main Wheels

Robart's scale aluminum wheels. Available in 4", 4.5", 5", 5.25", 5.5" and 6" sizes. Spoke patterns consist of 3,4,6,8,10 and no spoke. The Top Flite Zero has a 5" tire with the no spoke aluminum wheel.



Scale Tailwheels

Robart tailwheels come with a choice of spoke patterns, either 8 spokes or no spoke.



Pneumatic Air Kit

Robart air kit (157VRX) provides everything necessary to operate the pneumatic landing gear.



Adhesives

Robart recommends the use of Zap adhesives, threadlockers and Z-Poxy.

ROUGH RIVER SCALE RALLY AND SYMPOSIUM

The first (hopefully annual) Rough River Scale Rally and Symposium will be held on May 16 and 17, 2015. This event sponsored by NASA is a fly-in for any/all R/C scale aircraft.

In conjunction with the fly-in, NASA will be holding several instructional classes on scale building and flying subjects such as documentation, fibreglassing, making fibreglass molds, cutting foam wings, judging, etc.

Here's a list of what's scheduled so far:

So far on the list of presentations we have:

- Documentation
- Static judging
- Flight judging
- Cutting foam wings
- Rivets and panel lines
- Laser cutting
- Fibreglass molding
- Basic getting started in scale modeling

The purpose of the symposium is to try to get more pilots interested in scale competition. The classes are optional and open to all. Attend only the ones that are of interest.

The event will be held at the beautiful Rough River Dam State Resort Park in Falls of Rough, KY (former site of the Mint Julep Scale Meet). We will be flying off of the 5,000 ft. paved runway.

We will have pilot voting for Best WW I, Best WW II, Best Civilian, and Best Military awards.

For reservations call 270-257-2311. Tell them you are with the flying event. The camp ground is closed for repairs to the dam. They will let us park a few campers at the pilots lounge area.

There will be a \$15.00 landing fee and there will be concessions on site.

If you have any questions contact me at darvin8094@aol.com or call at 812-284-0162.

DAVE ARVIN
darvin8094@aol.com

CLICK HERE TO BUY YOUR RAFFLE TICKETS

More info on the NASA 2015 Raffle plane is on page 1!

BUCKEYE SCALE CLASSIC

Hey everyone!! This year the TORKS approached me and asked if I was interested in holding a scale contest at their field this summer. If any of you have heard of the Heart of Ohio jet meet, from a few years ago, then you know this club knows how to put on a first class event!!

The TORKS recently moved to Deer Creek State Park in Mount Sterling, Ohio. Mike Barbee and I recently drove down to the site, and it IS a GREAT place to hold a model event! Many of you have been a part of the Mint

Julep and can recall how nice Rough River - Deer Creek is very similar.

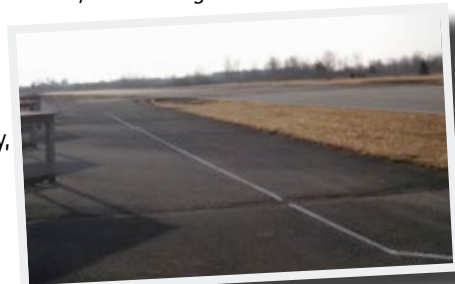
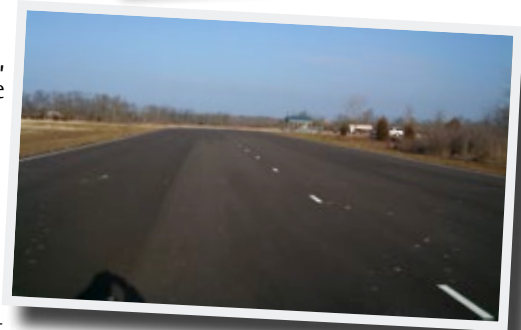
Their recently extended runway is 900' long and at least 75' wide. The surface is very smooth with NO change in the transition between the new and old black top. Next to the main runway, there is a grass runway that is 600' x 60'.

There is electric on site, and plenty of accommodations for RV's on BLACKTOP. The pit area is a combination of both asphalt and grass, so if we have rain, the mud will be a non-issue! Next to the flying site there is also a very large parking area that could potentially accommodate control line as well. Something to think about in for the future!!

Most model contests leave little to do for the families of the pilots. Deer Creek has a bunch of things to do for the rest of the family. There is swimming at the lake within walking distance from the field, there are 2 pools at the lodge, as well as full workout area and outdoor play area for the kids. You can hike, bike, golf and even ride horses! If you are looking for a super place to bring the family for a weekend and fly, this venue would be a great place to bring them. You could even stay the week and fly before the scale NATS the following weekend.

At the time that I wrote this, there are 30 rooms and 2 cabins left for this weekend. To make reservations on site call 740-869-2020 please use the code TORKS when making the reservations. This will enable us to get the lodge's party room for free on Saturday night.

For more information on the event please contact me at 614-203-0260, or find me on Facebook on the NASA scale group page.



See ya this summer!
JOHN BOYKO
sir-smoothie@earthlink.net

12 INCHES TO THE FOOT

Wow another flying season coming around the bend, unless you live in Minnesota or near Boston I guess. You would think we could get more building done in winter with crappy icy snowy weather. Well at least here that hasn't been the case, it just takes more time to do everything or go anywhere. Then if someone has an accident (wife)- well somebody has to do the "homework" as we call it. But we are really looking forward to seeing everyone and coming to some of the different events this year.

OPEN SCALE

This seems to be a very overlooked class in AMA Sport Scale. Anyone out there tried it yet? It's event #523 on the NATS entry form this year- so what the heck is Open Scale?

It's open to any modeler built OR factory built RC Scale model. There is no builder of the model rule. So what this basically states is that you can purchase a model from someone else and or from say Tower Hobbies and compete with it. I would hope in the future there is a little more meat put into the class where you have to finish/modify or re-cover an ARF, etc. for it to be eligible for this class. It's not Team Scale but the way the rule is written it's just another Fun Scale class.

What if we had it where the model must be modified in some way if it's an ARF? Or you could have a model that's partially built by one modeler and finished by another and flown in the competition (which is a case close to me right now with a couple of airplanes). Just some thoughts for the future sometime.

This class will be held at our Scale Nationals July 15-17th this year at Muncie Indiana. We are also seeing another GREAT CHANGE THIS YEAR AT THE NATIONALS- **NO IRONMAN EVENT** to have to deal with, so if your looking for motel rooms it should be easier. We gave up on motels in Muncie last year and purchased our own home away from home, but there should be plenty of rooms available for the Scale Nationals which hasn't been the case for the last 3 years at least!

NSC AIR RACING

Air Racing class at the 2015 NASA Scale Classic will be FUN! You can enter an ARF, a built up model or pretty much anything that flew in any air race before 1940. After the 1939 Air Races, WWII pretty much stopped all forms of air racing. There will be trophies with an Air Racing theme to them for 1st, 2nd, and 3rd place. It's not a "race", but scale maneuvers using race planes. Cash awards will be in the thousands of \$\$\$\$\$\$\$- not! But we will have a great time and see some very special aircraft fly at the NSC. Greg Hahn won last year's WWI event and he said the trophy he took home was the most unique one he had, he and his wife really liked that one. Next year, what will it be, warbirds, aerobatic types, pre-WWI, bombers, twins, or maybe the Golden age 1919-1939 (in-between the wars). How about the membership giving us some input? E-mail me at onawing4602@att.net

SCALE CLASSIC



AIR POWER MUSEUM AND LIBRARY

It's been a few years but when Esther and I went to the Antique Airplane Association Fly-In held at Blakesburg, Iowa and we had a great time. There are so many different airplanes to be seen and photographed as well as the Air Power Museum. Membership is \$40 for the AAA and this includes access to the museum, library, as well as the annual Fly-In.

The Association pioneered that concept 47 years ago while recognizing it was past time to save antique airplanes and to "Keep the antiques flying". No other organization had yet been established for that specific purpose.

I really didn't know much about the Airpower Museum and the Library of Flight before arriving there. But Mike Gretz (SIG Mfg.) is very much involved in the museum and library. They have information on just about any and I do mean any civil aircraft they probably have more than any place else on earth. Mike's wife Doris, runs the gift counter at the museum. Photos, books, magazines, photo disks, 3-views, technical drawings, and tons and tons of stuff are available. I could spend a week there and probably still not see it

all. I've been in the attic and it's truly bursting at the seams with magazines and technical information I've never seen before. The reading area, which is air conditioned has a huge amount of aviation books cataloged and filed for research as well.

The ladies from the Blakesburg Historical Society have homemade pies served on the front porch of the library. I pretty much ate a blackberry pie there that week. It's all organized and the week we were there Mike didn't make it out to the field much for taking in more from AAA members both books as well as photographic information.

The Airpower Museum has a large collection of civil aircraft as well. It also includes engines, parts for members and their restorations, R/C scale models, uniforms and many bits of information from aviation's

past. A few of the aircraft listed which could peak a modelers interest are: Aeronca K, Culver LCA Cadet, Great Lakes 2T1A, Mooney M-18 Mite, (a former SIG kit) the full scale Morrisey Bravo, Pietenpol Aircamper, several Rearwin aircraft,

and a Ryan STA.

Yeah, it's a bit of a drive from Nashville but while we were out in Iowa I decided that if my wife was going to spend close to a week at an aviation fly-in I'd better take her around a bit too. We visited John Wayne's childhood home, saw the "Bridges over Madison County" (Yep where Clint Eastwood's movie was filmed), and visited the site for the movie "Field of Dreams". That was a good relaxing day, and we also spent a day at SIG Mfg. and received a guided tour around the entire operation- cool! But the idea of this guys and gals was to not make

...continued on page 5



...continued from page 4

the entire trip just AIRPLANES. To me this equals more of my wife participating! Yeah, a great trip all around. Check it out!

SCALE COMPETITION

I've stated probably for a few years that scale competition had been in a decline and at one time that was a very true statement. *But that isn't the case now and we as an organization need to make the most of this swing in the bell curve that we can.* An example is that after the year with the worst weather at Top Gun Invitational in 25 years, the entry list for this year's event is FULL. Frank couldn't take any more modelers wanting to compete. We are seeing an up-turn in the number of events, competitions, fly-ins as well as ARFs, a few new kits and plans as well.

Talk to your buddies and friends about going to Rough River, the Nationals, the NSC and/or the many other events listed on the NASA website. Check out the Flickr stream with thousands of photos on it of different events. The part I really enjoy on the NASA site is the building photos like Bob Patton's big Cessna, or George Mairana's new twin jet project, Bob Underwood's airplanes and many, many others. They might help you get your creative juices going and back into the shop!

BITS AND PIECES

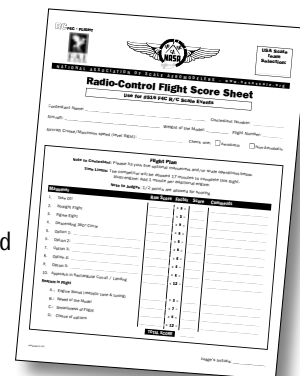
If you've ever assembled an ARF you know there are certain parts you need to have extras of for the life of the model! One of these items are canopies another is the cowl. If the manufacturers could just use plastic that would give a bit instead of shatter it would make a huge difference in the life of the model. *Of course that might be the whole idea in the first place!* Sometimes you receive a ARF and it's canopy is already cracked, busted, scratched or unusable. You call and they send out another canopy. Then if you have even a gentle roll over at the edge of a runway and the model flips up on it's back the canopy shatters into many pieces. That's a great reason to be sure you stay on the runway! Of course the other option is to make a plug and pull your own canopy.

Fair Skies & Tail Winds,
STAN ALEXANDER
onawing4602@att.net

WWW.NASASCALE.ORG

NASA News AND INFORMATION ON THE INTERNET

If you have internet access, you owe it to yourself to visit NASA's web site - www.nasascale.org. The NASA site was designed from the start to be the only place you need to go to find out everything that's happening in the world of scale aeromodelling - whether it's here on the National front, or on the International front - the domain of the FAI.



COMPETITION Docs/FORMS

This is one of the more exciting features of the web-site. We have all the competition forms and documents for scale competition online in pdf form. Not only are the documents up-to-date, but we now have two versions of each.

One is the regular pdf that we invite contest directors to download and printout for use in their contests.

The second (and more exciting) version of the form is the "intelligent" form. Using this version and an up-to-date version of Adobe's Acrobat Reader, you can fill out all your information using your computer, then pre-print copies to take to your next scale event: information about yourself, your plane and your maneuvers/options. All AMA rule book maneuvers/options (as spelled out in the current AMA rule book) can be selected from pull-down menus; right on the .pdf. Imagine not having to spend time at your next contest filling out forms!



SCALE EVENT CALENDAR

Click event names for more information.
NASA Scale Open events are noted in blue boxes.

TOP GUN

April 29-May 3, 2014 - Lakeland, Florida

AMA NATIONAL SCALE CHAMPIONSHIPS

July 17-19, 2015 - Muncie, Indiana

COLUMBUS SCALE CLASSIC

August 15-16, 2015 -Westerville, Ohio

ROUGH RIVER SCALE RALLY AND SYMPOSIUM

May 16-17, 2015 -Falls of Rough, Kentucky

EAA AIRVENTURE

July 20-26, 2015 -Oshkosh, Wisconsin

BROKEN ARROW

September 19-20, 2015 - Valley Park, Missouri

BRODAK FLY-IN

June 15-20, 2015 - Carmichaels, PA

HOOSIER SCALE CLASSIC

August 1-2, 2015 -Seymour, Indiana

NASA SCALE CLASSIC

September 25-27, 2015- Lexington, Kentucky

MINT JULEP

June 12-14, 2015 - Rosewood, Indiana

DAYTON BUZZIN' BUZZARDS C/L OPEN

August 8-9, 2015 - Dayton, Ohio

BUCKEYE SCALE CLASSIC

July 11-12, 2015 - Deer Creek State Park, Ohio

WENATCHEE SCALE RALLY AND NW SCALE CHAMPIONSHIPS

August 13-16, 2015 -Wenatchee, WA



1/2 A CONTROL-LINE SCALE

1/2A scale contests have been going on for many years and AMA has added 1/2A scale as a "official" contest event. We started offering this event two years ago at the NATS. The numbers have grown from 4 in 2013, to 9 in 2014 and there promises to be more this year. There are many local contests that have added this event to their weekend event with good numbers showing up.

Here is a F2-A Brewster Buffalo I designed two years ago. 27 inch wingspan with a Brodak .049 engine weighing in at 16 ounces. It handles very well and the takeoffs and landings are nice and smooth. This airplane took high static at the 2014 NASA Scale Classic and I have a new one ready for the 2015 contest year. To all you C/L flyers out there try 1/2A this year it is a lot of fun, and that's what it all about.



Blessings
AVEN GOFF
fcm95@comcast.net

Before each flight, make sure your bladder is empty and your fuel tank is full.



AERO-PAC SCALE DOCUMENTATION FOR THE DIGITAL AGE.



- Each Aero-Pac is devoted to a single airframe.
- The documentation comes on a cd-rom and is viewable in any modern Mac/Windows web browser.
- Includes walk-around, exterior & interior details, enhanced close-ups, and 3-views and more!

How Do THEY WORK?
CLICK HERE TO FIND OUT.

- All wording (n-numbers, nomenclature, etc.) are shot close-up and head-on for easier duplication.
- Compatible with Mac and Windows computer systems.

CLICK HERE TO SEE ALL OF OUR AERO-PACS ONLINE AT AIRBORNE MEDIA.COM

All Aero-Pac's are \$15.95 using our digital download option.

(Also available for \$19.95 for a cd-rom version - Call for details.)

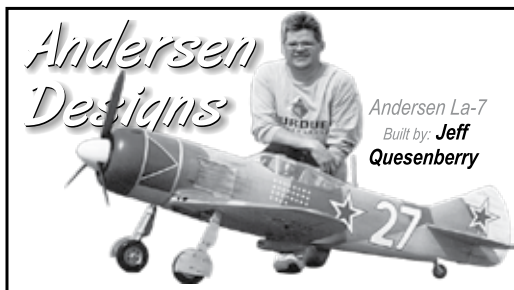


Call Toll Free: 888-829-4060

7414 Burton Drive, Liberty Twp, OH 45044



**R/C AND C/L SCALE:
JULY 17-19 2015**



Andersen La-7
Built by: Jeff Quesenberry

Free! **Scale Plan Downloads**

ARADO 96B, Focke Wulf TA -152H
Grumman Lynx, Howard Pete
Kawasaki Ki-45, Lavochkin La-7
Mitsubishi -"Babs"

MNBigBirds.com

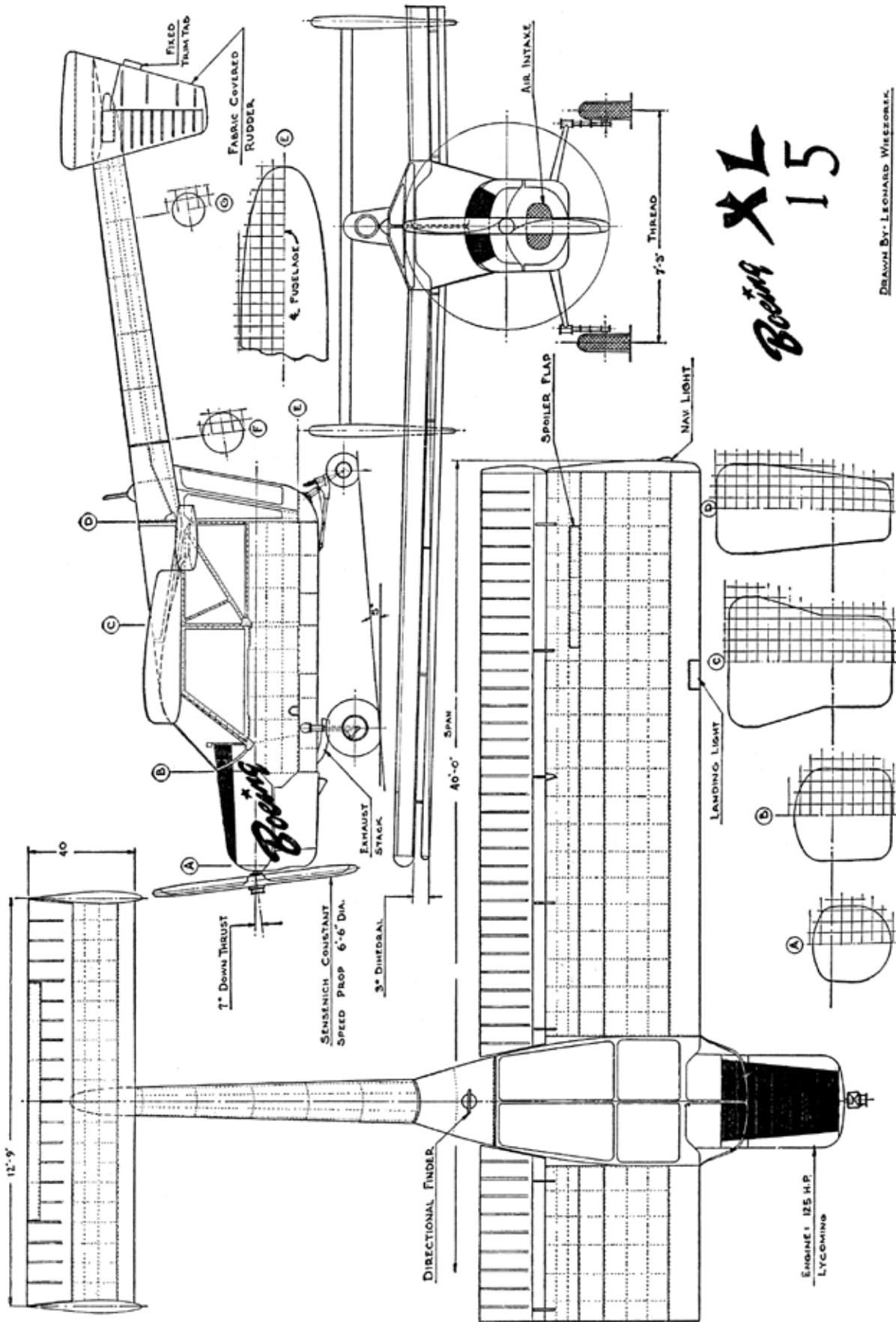
Add'l Extras

- In Flight Videos
- Construction Articles
- Scale Documentation
- Paint Masks & more...

Composite Parts Available thru ...



BOEING XL 15 3-VIEW



DRAWN BY: LEONARD WIEZOREK.



IN THIS ISSUE:

- WEATHERING SCALE AIRPLANES
- THE LATEST IN SCALE NEWS! • BOEING XL 15 3-VIEW

Join NASA Today! Complete the following application (please print) and mail it to

Tina Patton, Secretary/Treasurer NASA, 572 Cedar Pointe Drive, Somerset KY 42501

Make checks or money orders payable to: **National Association of Scale Aeromodelers.**

- Choose your membership:
- USA \$20 (1 year/Replica e-mailed)
 - Canada \$25 (1 year/Replica e-mailed)
 - International \$30 (1 year/Replica e-mailed)
 - USA \$25 (1 year/Replica printed copy)
 - USA \$38 (2 years/Replica e-mailed)
 - Canada \$48 (2 years/Replica e-mailed)
 - International \$58 (2 years/Replica e-mailed)
 - USA \$48 (2 years/Replica printed copy)

Name: _____ New Renewal Address Change

Address: _____

City: _____ State: _____ Zip: _____ Country: _____

Tel: - - E-mail: _____ AMA # _____ NASA # _____

Area of Interest: Free Flight Control Line Radio Control Giant Sailplane Electric

CHECK HERE if you do NOT want your name and address included in a directory to be distributed to NASA members. NASA will not sell this directory to anyone.

REPLICAS

REPLICA EDITOR

MARK LANTERMAN

7414 Burton Drive
Liberty Township, Ohio 45044