

REPLICA

THE OFFICIAL PUBLICATION OF THE
NATIONAL ASSOCIATION OF SCALE AEROMODELERS
AUGUST 2021

IN THIS ISSUE:

President Message - Mike Barbee

Northeast Scale Qualifier - Gerry Garing

The Controlline Side - Alan Goff

Scratch building Your Canopy Part II - Gerry Garing

36% Scale Fairchild 24 R3 Scratch Build - Jack Buckley

Plus the NASA RAFFLE FLYER



This issue spotlights Jack Buckley's all scratch built 36% Fairchild 24 R3. This photo from Top Gun #33 2021. Jack's story and photos inside this issue.....Send your projects to Sam



The National Association of Scale Aeromodelers (NASA) is an organization founded to promote all forms of scale aeromodeling competition, and is the host of the Academy of Model Aeronautics (AMA) Scale Nationals as the A.M.A. Special Interest Group (SIG) for Scale Aeromodeling in the United States of America.

www.nasascale.org

NASA BOARD MEMBERS

President
Mike Barbee
mabarbee@aol.com

Vice President:
Steve Eagle
stevereagle@yahoo.com

Secretary/Treasurer:
Jeffrey Pike
jeffreykeithpike@hotmail.com

Newsletter Editor:
Sam Wright
sam-w@cox.net

Webmaster:
Jeffrey Pike
jeffreykeithpike@hotmail.com

EXECUTIVE COMMITTEE

Stan Alexander
Dale Arvin
Danny Carozza
Allen Goff
Gerry Garing
Jack Buckley
Joe Vermillio
David Houk

MESSAGE FROM THE NASA PRESIDENT

Mike Barbee



Hello NASA Members and Friends,

The 2021 US Scale National Competition is now in the books. Attendance of the scale competition was outstanding; we surpassed the last couple of years by a good number. My hat goes off to the CD Carl Handley and assistant John Boyko. These members did an outstanding job of facilitating preparations and personal management. Thank you to all the judges for their dedication and attention. We also had a new addition to the class of competition, the F4H. This class was offered to introduce pilots to the FAI requirement for international competition and US team participation in the World Championships in Norway 2024. If interested please look at the requirements in both static and flight presentation at FAI.org. It has been my goal as NASA President to re-enter the world competition and field a world class team. Also, if you are interested in judging, please study the flight descriptions and protocol. We could use your help at next year's NATS. The team selection will take place at the 2023 NATS. Three members will be selected from the competition, one alternate and a team manager. Please help, we are looking for a corporate sponsor.

Remember we are still giving grants to clubs that sponsor an AMA Scale Contest. This activity is made possible by the sale of raffle tickets which has chances to win four great prizes. Drawings will be held at the NASA Scale Classic contest September 18 at the AMA complex in Muncie, IN. site 4.

Special thanks to Jeffrey Pike and His wife Sharon for their help at NATS score keeping and Jeff's efforts at the NASA Treasure position. Thank you both!

JR PROPO
PROFESSIONAL RADIO CONTROL SYSTEM



www.nasascale.org



FIRST PRIZE

TOP RC CORSAIR

JR PROPO RADIO SYSTEM
DA 70
A123 BATTERIES & SWITCHES
WARBIRD PILOTS

SECOND PRIZE

PT-17 SHORT KIT
87" NICK ZIROLI PLANS
NATIONAL BALSA - SHORT KIT
PHOTOPACK DOCUMENTATION



THIRD PRIZE DA 85



FOURTH PRIZE



NATIONAL BALSA
ZIROLI
PLANS

ElectroDynamics
ELECTRONICS FOR THE DISCRIMINATING MODELER

TICKETS:
1-\$5 3-\$10 7-\$20 20-\$50

robart

AIRCRAFT
DOCUMENTATION
SERVICES
330-315-4899 www.rds.com

DRAWING TO BE HELD AT THE NASA SCALE CLASSIC ON SEPT 18, 2021

Columbus Scale Classic

9th Annual

August 14th & 15th 2021

AMA Sanction AA # 10166

CD Mike Barbee

mabarbee@aol.com



AMA Scale Classes

511 RC Sportsman Sport Scale

512 RC Expert Sport Scale

515 RC Designer Scale

522 RC Team Scale

521 Open Class

Beginner, Beginner Class Scale

~ Pre-Registration is ENCOURAGED E-mail Please ~

**WMAA Flying site Dinneen Field
Alum Creek State Park**

**Flying Starts 10 am Saturday, 8 am Sunday
Static Judging 8 am Saturday**

See the best scale models in the area

**Please make a reservation for the party so we can maintain
requirements for Covid-19. Pilot and Guest Hangar party
Saturday Evening at Monster Hangar**

1st entry \$25.00, 2nd entry \$15.00

~ SPECTATORS WELCOME ~

Find us at www.wmaa-wags.org

The Central Ohio Radio Kontrol Society (CORKS),
in association with the National Association of Scale Aeromodelers (NASA),
present to you the third annual...

CENTRAL OHIO SCALE MEMORIAL

August 28th and 29th, 2021

Chapman Memorial Field - 3183 Columbus Rd, Centerburg, OH 43011

Back for our third year, this time re-branded as the Central Ohio Scale Memorial. While we focus on the amazing scale RC aircraft and those who pilot them, we also remember and pay tribute to those who have paved the way in the hobby and passed on before us. We also plan to donate a portion of proceeds to charity. Come out, enjoy the outdoors in a family friendly environment, and witness some of the most talented RC pilots in the area. Be sure to bring a lawn chair because we're sure you will want to stay a while!

Spectators...

- Free parking!
- Free admission!
- On site concession stand with reasonable prices!
- **Free tailgate swap shop with vendors booths!**

Pilots...

- Full Scale grass runway
- **Friday practice flying**
- First aircraft entry \$20, second entry is \$10!
 - Pre-registration encouraged
 - **Free pilot prizes**
- Prizes through 3rd place in each class
- On site camping (no hookups, limited space available)
- Classes include:
 - 511 – RC Sportsman Scale
 - 512 – RC Expert Sport Scale
 - 515 – RC Designer Scale
 - 520 – RC Fun Scale (Novice and Open)
 - 522 – RC Team Scale
 - 523 – Open Scale



Static judging at 8a Saturday. Flying begins at 10a Saturday and Sunday.

For more information or to pre-register, please contact:

CORKS CD - Keith Bryant
acsd2703@yahoo.com
(740) 404-5354

OR

FORKS CD - Adam Grubb
grubb.34@osu.edu
(614) 312-4290

5th ANNUAL NORTHEAST SCALE QUALIFIER



NEW LOCATION!

NEW LOCATION!

info at: www.nasascale.org

July 16-18, 2021

The NASA Northeast Scale Qualifier returned in 2021 to a new location and host club. The July 16 through 18 contest was held at the beautiful and scenic Chenango Bridge Airport near Binghamton, NY. This outstanding location offers a well-groomed full-scale grass runway, suitable for turbines, with a virtually unlimited fly over area. The host club, The Binghamton Aeros, has decades of experience running model airplane events and knows what is needed to ensure a smoothly run contest.

Since the first NE Qualifier in 2016, Contest Director, Danny Carozza, offers a first-class event for both experienced and first-time competitors looking to try out scale competition. The core of a good contest is a team of knowledgeable judges who understand their role is to not only critique, but to teach. The NE Qualifier is fortunate to have Rich Roberts (Connecticut) and Jim Martin (Ohio), both veteran Top Gun judges who returned this year as flight judges. They provided a brief seminar for beginners on performing the maneuvers and what they look for when judging. Static judging was handled by David Houk (The owner of Aircraft Documentation Services, Ohio) and Jack Buckley (Award winning Top Gun, Scale Masters, and FAI Team Member, Massachusetts).

The Northeast has had an unusually rainy summer with only one precipitation free day in July prior to Thursday. Early arrivals enjoyed two beautiful days with light winds for practice flying. Pilots arrived from New York, New Jersey, Connecticut, Massachusetts, Ohio, Pennsylvania, and Indiana. There were five NASA Executive Committee members including Vice-President Steve Eagle. Following several brief rain delays Saturday morning, the day turned sunny with just a light breeze. Saturday evening storms brought heavy rains. Lingering drizzle on Sunday morning, with a forecast to become steady showers later, left no option other than to call the contest and hand out awards. The results are:

Expert: 1st Place Steve Eagle Fokker D VII

Designer Scale: 1st Place Jack Buckley- Fairchild 24

Team Scale: 1st Place - Ray Schmidt(Builder) Hannah Nessralla (Pilot) Beech Staggerwing

Fun Scale Expert: 1st Place Tom Lowrie- Acrosport IIS

2nd Place Danny Carozza- Laser 200

3rd Place Steve Eagle- Fokker D VII

Fun Scale Novice: 1st Place Mike Mirabilio- Porterfield

2nd Place Bob Krull – Fleet Biplane

3rd Place Ralph Deleon Piper Super Cub

Special thanks to this year's sponsors: Aircraft Documentation Services, Micro Fasteners, Model Airplane News, Sullivan Model Products.

Plans are already underway for next year's contest. We hope you will plan to attend because you won't be disappointed!

Photos on next pages

NORTHEAST SCALE QUALIFIER



BOB KRULL - 3RD SCALE FLEET BIPLANE



DANNY CAROZZA - LASER 200



FRANK FELS - STITS PLAYBOY



HANNAH NESSRALLA - P-51 MUSTANG



RALPH DELEON - PIPER SUPER CUB



RAY SCHMIDT - DEHAVILAND BEAVER

WINNING PHOTOGRAPHS 2021



MIKE MIRABILIO - PORTERFIELD



STEVE EAGLE - 1/3 SCALE FOKKER DVII - STEVE ALSO FLEW A 1/4 SCALE DVII



RAY SCHMIDT - BEACHCRAFT STAGGERWING



STATIC JUDGES JACK BUCKLEY, & DAVID HOUK REVIEWING RAY SCHMIDTS STAGGERWING



TOM LOWRIE - 40% AEROSPORT IIS



AWARD WINNERS LOOKING GREAT!

ON THE CONTROLLINE SIDE



The scale Nationals have come and gone. We cannot say it was a typical NATS. Both C/L and R/C scale events had to be altered because of incoming severe weather. We had to cram a three day contest into one day, yep, one day.

After static judging was finished, we packed up airplanes and equipment and rushed over to the scale circles. With the cooperation of the pilots, judges and staff we were able to complete 2 rounds.

We started at 7:00 am and finished at 7:30 pm. To say that Thursday was a long day would be an understatement. As for Friday, the weatherman was right. There was so much wind and rain that the geese were even walking. Saturday, the last day of the NATS, was more of the same.

NASA held their banquet Friday night in the conference room at AMA headquarters. There were 61 in attendance. After supper, Hall of Fame induction ceremonies for both R/C and C/L scale were held. There were 4 inducted from both R/C and C/L. Two of each were from the cancelled 2020 and 2021 years. The controlline pilots inducted were Steve Ashby, Pete Klepsic, Joe Coles and Chris Brownhill.

F4B Update: FAI is looking to reinstate F4B for the 2024 FAI world competition. Richard Schneider and I will be on the international rules board as we move forward on rewriting rules for 2021 and beyond. The C/L scale rules have not been addressed since 1980. If you are interested in being part of the F4 USA team, get to building. NASA will announce when and where the 2023 team trials will be held.

Upcoming C/L Scale Contest.

Mukwonago, WI. 8/8/2021, - Aurora, IL. 9/5/2021 - Eugene, OR. 9/4-6/2021 - St Louis, MO. 9/18-19/2021

How about some pictures from the NATS?

Blessings,

Allen Goff.





Tom Lowery with his Acro Sport IIS, all scratch Built and a show stopper in the air. Tom is a NASA member competing at the 2021 Top Gun Invitational in Lakeland, Florida...oh yeah, the guy on the left, your Editor and Top Gun Announcer for 33 years....Geeeez



Application for Scale Contest NASA Sponsorship

NASA will provide \$250.00 and 100 raffle tickets to each AMA sanctioned club that hosts an all scale AMA sanctioned contest providing the following stipulations are met.

- This application must be completed and returned to the NASA Contest Coordinator.
- AMA rules for scale competition and scoring must be followed.
- The contest must include all AMA Scale RC and/or Control Line Scale events.
- The contest must span at least two consecutive days.
- The application must be received two months in advance of the contest date.
- An electronic copy of the contest flyer must be provided with the application.
- NASA Score sheets must be used during the event. (www.nasascale.org).
- The contest results must be submitted to the NASA CC with 30 days of the contest.

Upon NASA review of this application the Contest Director will be notified regarding approval by the NASA CC. Contests previously sponsored will have priority. Applicants will be notified of conflicting dates and allowed to resubmit. Once the annual sponsorship budget limit has been reached NASA will not accept new applications for the current year, however applications can be submitted for subsequent years.

Name of the Contest _____

Name of the Club _____

Name of the CD _____ AMA # _____

Name of contact _____

Contact Address _____

City _____ State _____ Zip _____

Email _____

Telephone _____ Cell Phone _____

Date of the Contest _____ AMA Sanction # _____

Contest Location _____

Return this application to the NASA S/T at jeffreykeithpike@hotmail.com

Return your contest results to the NASA S/T listed above.

Upon completion of all the above stipulations NASA will submit a check to the host club via the contact.

The check must be payable to the order of the Official Club Name (no individuals allowed).

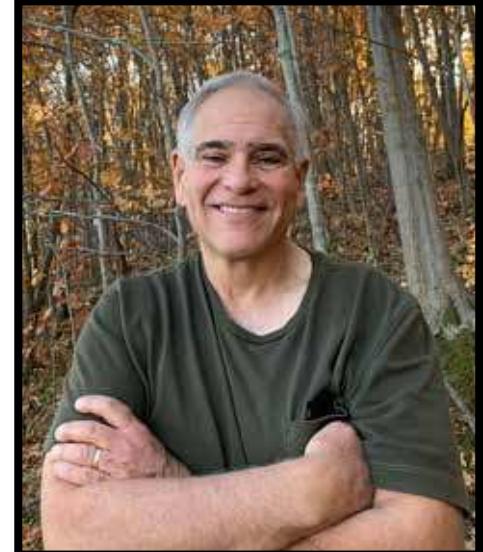
Revised November 20, 202

A Plug for Scratchbuilding Part 2 or Mold School Modeling *BY GERRY GARING*

Our *Replica* editor requested a follow up for making a canopy from the foam plug described in the last article, A Plug for Scratch building. I knew with summer on its way, the project would be on hold for a while. Then, in the process of restoring my first scratch built giant scale airplane, a 35% RV-3 from 1984, I cracked the front windscreens portion of the canopy. I made a new one by shaping and finishing foam just as in the previous article. This article picks up from that point to show the rest of the process to finished canopy, albeit a different subject.

We'll let the captioned pictures tell the story. There are a couple of items to clarify, however. The term "draft angle", mentioned in picture 3 means the plug must taper outward from top to bottom. Otherwise, the part will become locked onto the plug.

Ultracal 30 is a cement product made by US Gypsum. Advantages include a fine finish (that can be polished), durability, and low shrinkage upon cure. The mixing ratio is 38 parts water to 100 parts UC 30 by weight. It sets in about a half hour, but working time is less. Water temperature has a significant effect on set time, so I never use anything over room temperature (which feels cold). Sift the cement slowly into the water to avoid clumps which will not dissolve and wet out. The idea is to saturate each particle of cement. Use a drill powered mixer for approximately 4 minutes and then pour it into the mold without delay. There is very little time once it starts to set up. US Gypsum provides detailed information on its website. I purchase it in 50-pound bags for around \$35.00 from a pottery supply. The cost doubles if it must be shipped.



Without further delay.....

Captions Canopy Part II

Photo #1. Original windscreen

Photo #2. Foam plug body filler and primer ready for paint(the stage the last article ended at this stage).

Photo #3. This photo illustrates several key points. A $\frac{1}{4}$ in extension, visible by the faint line, is added to each end of the plug. Support pieces were added to the ends to hold the plug in a better position for pulling the clear plastic. These pieces were covered with filler, sanded, and primed. There is no need for precise block sanding since they are not part of the final product. One important consideration however is draft angle, however. The pieces are painted. Once cured, the paint was sanded with 800 grit paper and polished with automotive polishing compound.

Photo #4. The plug is prepared for laying up the fiberglass mold by fastening it to a base. I use shower-board since it already has a smooth glaze like surface. Modeling clay is used to fill any seams as well as form a fillet between the plug and the base. The plug and base are waxed with 4 to 5 coats of partial mold release wax followed by 3 light sprayed coats of PVA.

Photo #5. The plug is covered with polyester gel coat and two layers of fiberglass mat.

Photo #6. Once cured, the fiberglass mold is pulled from the plug. Minor imperfections can be corrected at this point. Any small voids in the plug will appear as small bumps in the mold and easily sanded out. Voids in the mold can be filled with resin, allowed to cure, and sanded out. Since this will eventually lead to a clear canopy, a flawless finish is more important than would be the case for a fiberglass part such as a cowl. The mold is sanded and polished the same as the plug was in Photo #3. Only to the part that will be clear needs polished.

Photo #7. Now the fun begins. The mold is given several coats of Partail wax (no PVA) and will be filled with Ultracal 30. A solid pour would be extremely heavy, a waste of product, generate significant heat upon cure and could possibly lead to cracking due to excessive mass. For this reason, a foam insert will be made to take up internal space leaving about a $\frac{3}{4}$ inch wall thickness. . Precision is not necessary, however, make sure all edges are rounded. While Ultracal 30 has low relative shrinkage, it does shrink a little upon cure. Sharp corners will set up stress risers which will result in cracks during the cure process.

Photo #8. The foam inert is placed in the mold and clamped to keep it from floating when the cement is poured. To estimate the volume of cement needed, the mold is filled with water which is then-Continued Page 14

Poured out and measured. 68 ounces in this case. This is liquid volume and not the weight of the cement. Round up generously from any estimates so that you have more than you need.

Photo #9. The cement is mixed according to US Gypsum instructions. The mold is slowly filled from front and back and gently tapped to release any air bubbles that may form during the pour. The excess can be seen in the mixing cup. The cement in the cup will heat up the same as the poured plug. Once it cools back down to room temperature (several hours), the cement plug can be removed from the mold.

Photo #10. Believe it or not, Ultracal 30 can be sanded and polished. So once again, the clear portion of the canopy is polished out.

Photo #11. Finally, clear plastic is vacuum formed over the cement plug.

Photo #12. The canopy is trimmed and fitted. A fiberglass, resin and microballoon fairing transitions between the fuselage and the canopy. Looks like a good cleaning is in order!

There you have it and hope you enjoyed the article.



PHOTO #1



PHOTO #2



PHOTO #3



PHOTO #4



PHOTO #5



PHOTO #6



PHOTO #7

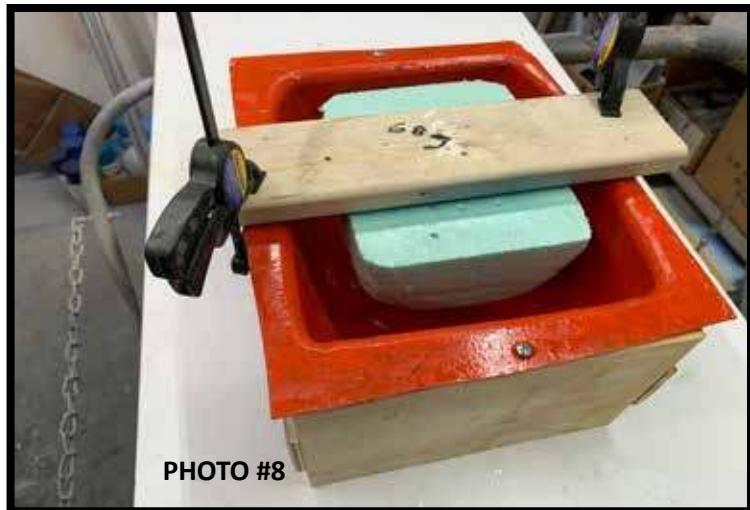


PHOTO #8



PHOTO #9



PHOTO #10



PHOTO #11



PHOTO #12



Tim Dickey's Fairchild 22 at Top Gun 2021
PAGE 14



Mike Barbee's Award Winning Beech-King Air Electric! Top Gun 2021

The Dream and the Creation of the 36% Fairchild 24 R-3 by Jack Buckley

Construction was from my plans which were a mix of drawings and ideas from Steve Gray , Steve Saugar, Norm Hosteler and looking at other plans I came up with a nice 1/4 scale design. After my son saw the drawings, we both thought it needed to be larger. The model should be around 150 inches, so after looking around for wood and other things and having a spare DA 85, I based the model around the DA 85. I also incorporated some of the landing gear construction I used in my Tiger Moth for the Fairchild model.

Construction was straight forward until I got the fuse side joined. The problem was how I could get this thing out of the shop when it was done. The landing gear is stainless steel tubing that I jiggled up and brazed with a coil spring inside. I had a Fairchild 24 in bones near me so I could copy how it was made from the full size.

I decided to cut foam cores for the stab and fin to save some weight. The rest is balsa and ply. Stringers were the next problem but I had a 2x3 spruce board. I cut it to 7 ft lengths then to 3/8 x 1/4. I hated to cut that board but I guess that's why I saved it for so long. I used carbon fiber on the laminated wing tips.

The finish is Stitts Lite fabric and Stitts Polytone paint, the same as the full size I replicated. I made foam plugs for the cowl and wheel pants then made molds from them to make the cowl and wheel pants.

I spent a few days at the Western NC Air Museum where they gave me full access to the full size anytime I wanted. Really great folks too.

Because the model was so big it gave me the chance to do a complete interior with carpet and lighting. The retracting landing lights were made using foamy digital servos and dollar store flashlights. Balancing the model was a challenge after adding 5 1/2 pounds of lead in the nose. The final wt 49 lbs 7 oz . The DA -85 pulls it around with ease with a 27X10 Xsore prop. Most of the flying is at 1/3 to 1/2 power.





In the bones and up on the scale gear. Starting to look like an airplane



A closer look at the gear, welded Stainless and works like the full size.



The hard part, I made a mold for the unique cowling scaled from plans and the full size.



Another peek at the custom gear construction.



My son Mitch admiring my ready to paint Fairchild covered in Stits Lite..



Nothing as satisfying to see your scale build next to the full size Fairchild with paint to match.



The reason we do it is to build scale, and oh yeah, some hardware to hang on the wall as memories.



This is my proudest moment. A long trip, but this Fairchild 24 R3 was well worth every day on the bench!

Chatter from the Editor's Bench

Time sure fly's when your having fun. I know a lot of you had time off for Covid and several are just plain retired and building some fantastic scale models.

I had plans to finish about 3 projects that have been moved around in my shop and planned on retiring. Well that didn't work. One of my clients needed some urgent CAD work in our construction area and that ended up in being full time, again., I did state that I occasionally have to disappear for a while to announce a scale event or participate in one. That seems to be working well. Several of my friends said I am coin operated, when in reality, I can buy model stuff without the financial manager of our household questioning it.

For this issue, I asked Gerry Garing to do a conclusion to his great canopy article and it sure makes me a bit braver to give his method a try.

Add to that Alan Goff's great coverage of and take on the Control Line scene. I am way out of touch with scale control line and that is where I started advancing to a 3rd wire for throttle and then into RC, These control line scale models are really scale appearing and have one thing I really like. You can always take them home with you the way they arrived at the field.

More from Gerry Garing with the results and photos from the Northeast Scale Qualifier. If you send me an article and photos related to scale and NASA, I will do my best to get them into this newsletter. Going forward the newsletter will be more timely as well. The next deadline is **October 15, 2021**. As you can see reviewing this August issue, there is no limit and scale articles like Gerry's great canopy success is always welcome.

Pay attention to the NASA Event Sponsor form in this newsletter as well and you can offset the expenses of your event with NASA's help.

The raffle drawing is coming up very soon and there is still time to purchase those tickets. You will be hard pressed to find as many super items to be raffled. All presented for you in living color on Page 3 of this issue. The drawing will be held at the NASA Scale Classic contest September 18, 2021. Don't miss out, buy your tickets, help support NASA and who knows a new project or complete airplane can be in your shop soon.

Here is a news blip: Carol Tiano, the wife of famed and my dear friend Frank Tiano, announced that she will be producing the Top Gun Invitational again for 2022. That makes Top Gun #34. Oh Yes, I will be flying the microphone again and last year we had a lot of NASA Members competing, so don't get left out this year.

Before we talk about other items, let me say a huge and grateful thank you to the sponsors who stepped up to make our raffle a giant success. I would be happy to win anyone of the great prizes; short kit, Moraine Salner in the bones, the Corsair, DA85 Engine, Ziroli Stearman short kit, and more, so again, don't miss the boat on this years NASA super raffle!

Our sponsors are: **JR PROPO, Desert Aircraft, Electrodynamics, Warbird Pilots, Ziroli Plans, National Balsa, Aircraft Documentation Services, Legend Hobby, Sullivan Products and Balsa USA** . That is an All Star line up of raffle prizes. The photo of Legend Hobby Moraine Salner should be in the bones. That means you can cover it in your favorite color scheme.

I am out of steam so remember, October 15 is the deadline for the next issue of the NASA Replica.

Fly Scale, Join NASA and stay healthy.....

Sam





NASA MEMBERSHIP APPLICATION



NATIONAL ASSOCIATION of SCALE AEROMODELERS

ABOUT NASA

NASA is the AMA (Academy of Model Aeronautics) a Special Interest Group (SIG) for the United States. NASA promotes and encourages scale competition for all types of scale aeromodeling. NASA produces Regional Contest and National Contest along with providing sponsorship to new and existing AMA Sanctioned Club Scale Contest. These are also qualifying events for the NASA Annual National Scale Contest.

AMA NATIONAL CHAMPIONSHIPS

NASA is the Official Host for the AMA Scale National Championships (NATS) held at the AMA Headquarters in Muncie, Indiana. Events are offered in both R/C and C/L Scale.

THE REPLICA NASA NEWSLETTER

The NASA Newsletter is published 6 times a year for paid membership. The newsletter features new sources of documentation, building tips, contest updates and results along with scale news, FAI information, 3-Views and other scale aeromodeling information for our membership.

NASA WEBSITE

The NASA website is a great source for scale aeromodelers for building tips, documentation, contest information, and more. Visit the website to join or fill and mail the form below: www.nasascale.org

SELECT ONE BELOW:

ONE YEAR MEMBERSHIP USA Includes emailed REPLICA Newsletter \$20.00 USD

TWO YEAR MEMBERSHIP USA Includes emailed REPLICA Newsletter \$38.00

RAFFLE TICKETS Quantity CORPORATE SPONSOR AMOUNT\$

YOUR INTEREST:

FREE FLIGHT CONTROL-LINE RADIO CONTROL JUDGING CONTEST DIRECTOR

NAME (Last) First M.I.

ADDRESS: AMA#

CITY STATE ZIP CODE NASA#

EMAIL ADDRESS PHONE

Help us continue to support Scale Aeromodeling Competition. Complete this form and with payment to:

Jeffrey Pike NASA Secretary/Treasurer
9825 Redman Lake Drive
Baton Rouge, LA 70817