

THE SCALE SQUADRON
OF
SOUTHERN CALIFORNIA



Founders of the
US Scale Masters Championships

SCALE DIMENSION

Official Newsletter of the Scale Squadron of Southern California

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Meeting
Show & Tell!**
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Founders & Proud Supporters of
The U.S. Scale Masters Championships



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On the Cover

1. Harry Middleton about to touch down with his beautiful P-51D Mustang "Blondie."
2. A giant electric Cessna 182, this one belonging to Michael Calloway on a very realistic fly by.
3. Eric Puchalski in a high-speed (slow?) fly by with his deHavilland DH.82A Tiger Moth.





Sam Wright Commander

Make Model Aviation Great Again

Hello and welcome to August with our popular **Warbirds and Classics** event only a week away.

Everyone of our board members have really jumped in to handle all the details including the PA System, Tacos for lunch, coffee and donuts in the morning, pilot packets and sponsors. I am the designated CD for our AMA Sanctioned event with Randy Wilbur as the Assistant CD. I will also wrestle the microphone with some breaks from Pano Coromelas who was able to secure a PA at no charge for us. We will surely miss him when he moves to Idaho.

Our largest challenge was assembling products for our raffle. As many of you know, we cover all our expenses including pilots dinner Saturday night, and the raffle is what helps us get through the year, plus our donation to the **Marine Corp Semper Fi**

Fund.

Gathering raffle models was getting grim and **Chris Wolfe** helped us immensely with **Legends Hobby**. Chris will be flying one of Legends' new releases, the **AD1 Skyraider**, and now on back order as they are so popular. If you have time, I certainly encourage you to visit the Website at www.legendhobby.com and view all the great models they handle, including Sea Gull, Top RC, ESM, and VQ Models. Legend Hobby also have a nice line of electric retracts, accessories and other goodies. Plus they and Thomas are supper nice dedicated hobby people.

Our big prize is an 80" wingspan **P40N** in the Sharks mouth or Parrot Color scheme, your choice included in the decal sheets. It can be powered with a 30 to 50CC engine. And did I say, electric retracts are included. Plus, we have a lot of donated items from club members as a regular raffle and we may want to raffle the P40N off as a separate raffle.

I had to open the box and fondle the beautiful the way this ARF s built. It is a beautiful ARF and you better believe, even I will be buying tickets

Tacos Guys will be at the field for lunch Saturday and no charge for pilots, plus \$10.00 for non-registered attendees for all you can eat of chicken, pork or beef tacos. That in itself is a upper sweet deal and all fresh too! The banquet

is at the grassy Oaks on the right as you enter the field, and what a great menu they have for us with their signature BBQ beef thinly sliced, chicken three types of salads and cobbler desert. We also have new t-shirts this year in a light grey with redesigned event art in full color while they last.

For those not flying we still want you to join us for the event, enjoy the tacos, the Saturday night banquet and the great raffle to be drawn Saturday afternoon plus some spectacular flying. We have pilots from Arizona, Las Vegas, and LA joining us too! Scale Squadron members flying or not, please come out and enjoy our first real club event in over a year.

All the information is on the Squadron website at www.ScaleSquadron.com You can register there, order t-shirt and banquet tickets too. We will have our regular scheduled meeting Monday August 9 at 7:00pm and cookies and coffee will be back and don't forget your Show and Tell projects, models or just plans.

I sincerely hope to see you all at the event and the meeting too Monday evening.

Until then, stay healthy and join us.

Sam Wright, Commander
sam-w@cox.net



So, the big news this month is **Warbirds & Classics 2021**. If you've already registered then you will have received a ton of information about how the event will be managed and some of the things that will be going on. Whether you've registered or not, be sure to check out **Sam Wright's Commander's View** column on **Page 3** of this issue.

When serious jet modelers get together and talk about their latest projects, it won't be long before the name **Larry Wolfe** pops up. I had a chance to spend a day with Larry recently and you can see how that went starting on **Page 6**.

The **July 2021 Squadron meeting** was the first face-to-face meeting in over a year. A lot of members and guests showed up and at least one new name was added to the Squadron roster. And as you'd expect, there were several show and tell items. See **Page 8** for details and photos of show and tell.

Many of you have enjoyed watching **Rob Hahn** work through a number of projects he's taken on over the years. Over the past few months he's tried his hand at building a custom glow-powered fan unit for an EDF (GDF?). As always with Rob, it's been an interesting experience watching how he has solved the challenges associated with converting an EDF jet to glow power. Take a look at the article on **Page 12** to see how he's doing.

Sorry, but there's no **Day at**

the Field column this month but things just got too busy. We'll try again next month.

AeroFred.com

So, I just finished watching *The Blue Max* for about the hundredth time and I was thinking about my next scale project. Then I started wondering, "If someone watched this movie and decided they wanted to build that Fokker Dr.1 how would someone new to the hobby find a decent set of plans from which to start?"

Then I remembered **AeroFred.com**.

AeroFred is a website that has been online for about 15 years. During that time they have established themselves as the premier place where modelers from all over the world can upload and download plans for virtually any kind of airplane (and some boats, Zeppelins, and a few other odds and ends). Most of the plans tend to be older (there are a lot of plans for free flight models) but there is a *ton* of more recent stuff.

You'll find everything from hand launch gliders to giant scale R/C to control line, rubber powered, and free flight.

Most of the plans are in the public domain. But if you see something there that doesn't fall into that category then let the guys know and they'll look into it and take it down if necessary.



Eric Puchalski
Newsletter Editor

Modelers from around the world have shared 24,000+ plans. Odds are you'll find something relevant to your next project. Maybe not the exact plans for what you have in mind but certainly something that will show you where to start. Plans can be downloaded as PDF files and taken to Kinkos for printing at full size.

The cost? It's yours for free once you become a member. The cost of becoming a member? Nothing! Nada! Zip! Zero!

Whether you find exactly what you're looking for to kick off your next project or just get some great ideas, your time won't be wasted at www.AeroFred.com.

Eric Puchalski, Editor
roadki111954@gmail.com



WARBIRDS & CLASSICS 2021

The Warbirds & Classics Event for 2021 is Upon Us!

Warbirds & Classics is happening August 6-8, 2021! So far just over 40 pilots have preregistered and more are expected. Despite the fact that the decision to put on the event was made very late, plans are falling into place and it looks like the 2021 event will carry on the fine tradition of providing a terrific experience for everyone. Whether you plan to fly or just stop by to admire the scenery, you're guaranteed to not be disappointed.

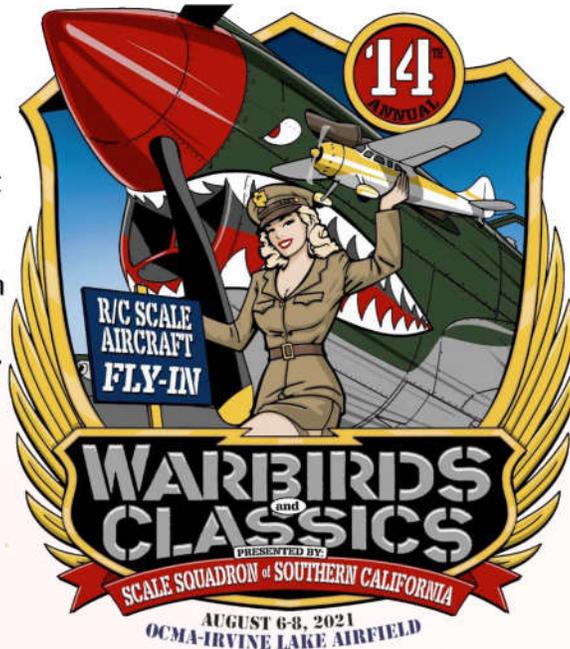
The weather is forecast to be pretty mild August in Southern California. We're being told we can expect temperatures around 90 give or take and not the 110 in the shade we sometimes get in August. And, as usual, no rain is predicted.

Raffle

The raffle is shaping up into something pretty terrific. It will be held in two parts:

The **general raffle** is for R/C kits and accessories. Prizes include a **Hangar 9 T-28**, some scale rubber powered kits, **Sig V-Tail Bonanza** kit, selection of batteries, **JHH Ducted Fan Unit**, and some other cool things. Tickets for the general raffle will cost \$1.00 each, 6 for \$5.00, 12 for \$10.00, and 24 for \$20.00.

A **separate raffle** will be held for the **Legends Hobby 80" P-40N ARF** with electric retracts (with a retail value of \$200.00). Those tickets are \$5.00 each.



Reminder to Pilots

- OCMA Field is located in an *extreme* fire hazard area in the foothills of the Santa Ana Mountains. Absolutely **NO** open flame, including grills, campfires, etc. will be permitted.
- A fully-charged and operating fire extinguisher is required in your pit area.
- If you're flying glow or gas **NO SPILLS, NO DRIPS, NO EXCUSES!** You must catch and recycle fuel.
- This is an AMA sanctioned event so current AMA membership and proper FAA registration marking on your model are required

- Commemorative T-shirts are on sale on line and at the event.
- No jet turbines (EDFs are OK) or drones.
- Scale helicopters are welcome but they must take off from the runway and fly the standard pattern.

Volunteers Still Needed

We are still very short on volunteers. If you could help with any of the jobs that must be done with an event like this (parking, registration, ground and air traffic control, set up, take down, concessions, etc.) please contact **Mike Greenshields**. Even if you're a pilot, Mike is very good about scheduling so that your flying time will not be impacted.

See you at Warbirds & Classics 2021!



A DAY WITH LARRY WOLFE

by Eric Puchalski

Larry Wolfe has been bugging me (and pretty much anyone else who drifts into ear shot) for several months to pay a visit to his hangar at Chino Airport where he and Gordon Truax spend a lot of time working on airplanes. I was finally able to free up an entire day and with my friend and co-conspirator, Jack Guiso, drove out to Chino to see what's up.

We met Larry and Gordon at Flo's Restaurant where we had a terrific breakfast and talked airplanes. In the process we discovered that Larry has a wealth of knowledge that a casual observer will miss unless until he spends some time.

It seems like Larry knows everybody and even walking through the restaurant when we decided it was time to leave took a good 15 minutes. In the end, we spent a couple very enjoyable hours at Flo's before heading over to Larry's hangar.

I won't bore you with a bunch of details about Larry's life or contributions to the model aircraft hobby and industry but I will say that the details are extraordinary and the contributions are fundamental. Here's the Cliff's Notes version:

Larry started building and flying model aircraft in 1954. He set his sights on jet power almost immediately and in 1956 he built his first jet. For his initial jet build he built a ducted fan unit around a Cox .049 and installed it in a free flight model. In 1972 (while still in the Army) he started flying R/C. At about that time he built his first scale model; a Cessna Skylane from a Carl Goldberg kit. His interest in jets and R/C modeling turned commercial in 1975 when he founded Jet Hangar Hobbies which continues today as **Jet Hangar International**. Today, Jet Hangar is one of the premier providers of jet kits, ducted fans, turbine engines, and modeling supplies to modelers around the world. Many of the products sold by Jet Hangar, including jet kits, EDF fan units, and many components for model aircraft were originally designed by Larry himself and are only available through Jet Hangar. He has also been an enthusiastic supporter of, and participant in, scale R/C modeling contests, fly-ins, jet rallies, and other public events that promote the R/C hobby.

In recognition of his dedication to the hobby and the model aircraft industry, Larry was inducted into the **AMA Hall of Fame** in 2013.

They say "it's not bragging if you can do it" and Larry certainly can do it!

If you'd like to know more, take a look at his AMA Hall of Fame biography at www.modelaircraft.org



A Day With Larry Wolfe

Current Projects

· Like most of us, Larry has a number of projects in the works. Currently most of his time is taken up by a **Grumman F9F-4 Panther** (an airplane where Larry is an *absolute* subject matter expert). He's building this from one of his own Jet Hangar kits. (You can find some details about the F-9F build on **Page 10** of this issue.) His work shows amazing attention to detail and a deep understanding of the intricacies of the full-scale aircraft. At this point, the airplane is about 80% complete and Larry hopes to have it finished and flying by the end of 2021.

Also in the works is a 1:1 (yup, that's *full scale!*) **Boeing Stearman N2S-3** (the Navy version of the PT-17). Something over 1,800 of these were delivered to the U.S. Navy and it was known colloquially as the "Yellow Peril" due to its overall yellow paint scheme. Larry and Gordon are working together on this restoration and they have made slow but steady progress over the past five years. The basic airframe is complete and the wings are covered and painted. The fuselage is pretty much assembled and ready for covering. There is no expected completion date on this project but it's getting very close to being ready for final certification. As with his scale models, the work on the Stearman is immaculate.

Advice to Builders

I asked Larry what advice he might offer to newcomers and he shared quite a bit of his wisdom. Larry's advice to anyone taking on a scale project:

- ➔ **Get it right, whatever it takes.** If you want to build something true to scale, find your sources, flesh out the details, and do whatever it takes to get to the level of detail you want to replicate.
- ➔ **Love what you're building** or you won't have the enthusiasm or commitment to keep at it until it's right.
- ➔ **Decide what you want to do with the airplane when it completed.** If it's just a 3D rendering of something you've always admired then it's pretty easy to find a 3-view drawing and get to work. But if you want to build an exact replica, right down to the correct number of rivets that hold the windshield trim in place, then you'll need to do some research.
- ➔ **Make sure your documentation matches what you're presenting.** Your work will (theoretically) be judged based on your documentation, not on what the judges think they know about your subject. Odds are, you'll know more than the judges do about the details.
- ➔ **Focus on what's important.** It's not necessary to build exact scale replicas of parts that won't be seen. Use that energy to perfect the visible parts instead.
- ➔ **Be willing to experiment and try new things.** Favorite building materials often become obsolete and are no longer available. But there's almost always something new that will make an excellent replacement.

Larry is one of those rare people who, at least when it comes to modeling, has no secrets. He's happy to share his accumulated knowledge and will even work side-by-side with anyone trying out a new skill or method. He's led an interesting life, served his country with honor, survived some trying times, and overcome some daunting personal challenges.

He's an amazing man and I'm glad I took him up on his invitation to pay him a visit.



JULY SQUADRON MEETING

Attendance was good, probably due in part to the promise of a free pizza dinner, and in part to this being the first face-to-face Squadron meeting in 14 months. A few guests showed up and one new member, Jamie Colley, was added to the pilot roster. Sam welcomed everyone, provided an update on preparations for Warbirds & Classics, and quickly dispensed with the general club business. About then the pizza showed up and, as expected, it was a big hit. Then came the part everyone was waiting for: **Show & Tell**

Jerry Thompson showed his big **North American P-51D Mustang** that he built from a Top Flite kit. The model is powered by an O.S. 1.20 and is covered with Monokote. The model is finished in the colors of "Big Beautiful Doll" flown by John D. Landers, commander of the 78th Fighter Group during WWII. Jerry said construction and finishing were pretty straight forward but the checkerboard on the cowl was much more complicated than he expected. He had just finished applying the last of the markings the day before the meeting and he planned to fly it for the first time the day after the meeting. Overall it turned out great and he's very happy with it.



Larry Klingberg brought along a pair of scratch-built **Westland Lysanders**. Larry found plans for the Lysander in a model magazine from the early 1930's. He built the smaller version by having Kinko's enlarge the plans to 200%. When he finished the model he liked it so much he went back to Kinko's and had another set done at 400%. Both models are covered with Solatex and painted with rattle-can spray paint. Larry explained how he made the roundels and some other markings using Solartex also. He said the models went together pretty easily except for the wheel spats which took a while to get right. Larry also carved balsa props for both airplanes.



July 2021 Squadron Meeting

Brand new Squadron member **Jamie Colley** (he just joined earlier at the meeting) brought three models to talk about:

Albatros D.V as flown by Lieutenant Hans Joachim von Hippel. The model started out as an ARF that had been stored for around a decade in someone's attic. During that time, the heat caused the glue to dry out and the components disassembled themselves so when Jamie opened the box he found something more akin to a kit than an ARF. He rebuilt the model and repainted it in von Hippel's colors. He then replaced the original can motor with something more modern, fitted it with LiPo battery, installed new radio gear, working kevlar flying and landing wires, and many other details. When he was done with the model, ready to fly, it weighs exactly the same as it did originally without the battery.

Republic P-47 Thunderbolt that he originally obtained as an ARF kit. Jamie scraped off the original finish and repainted this model while employing some weathering techniques that resulted in a terrific presentation.

de Havilland DH.89A Dragon Rapide that he scratch built from Depron foam sheet. Over the years, Jamie has built several versions of this airplane and it's one of his favorites. He finished it in the colors of G-AGTM as it was used by the British Army Parachute Association in the 1960's. Jamie said the model was very easy to construct with the exception of the engine/wheel nacelles which required a couple attempts before he got something he liked. He said the model flies great (better than it did originally, once he went to counter-rotating motors) but he avoids winds above about 5 MPH. It also employs a stabilization system which helps when the air gets bumpy.

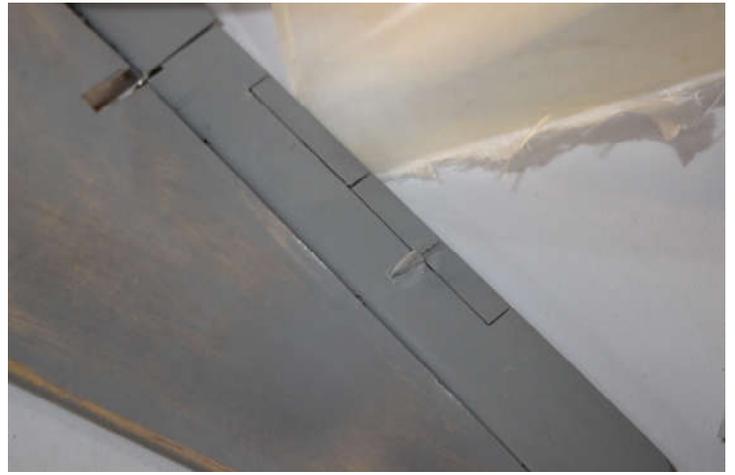
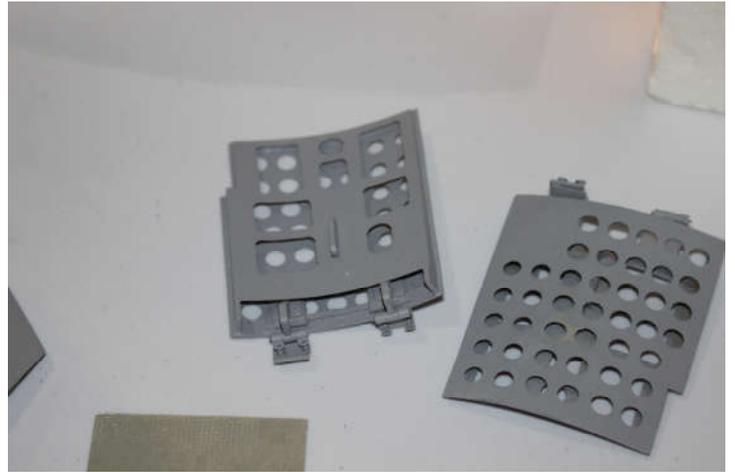


July 2021 Squadron Meeting

Larry Wolfe brought along a 1:9 scale Grumman F9F-4 Panther that he's building from a Jet Hangar Hobbies kit that he designed. Larry provided a lot of excellent information about the details and function of the complex speed brake and flap mechanisms. He also provided a lot of history and technical information about the Panther. He plans to have the model function identically to the full scale airplane in all respects. Showing Larry's particular attention to even the most minute details, this model looks like it's shaping up to be another museum quality masterpiece.

Larry's usual exceptional attention to detail means that the closer you get to the components he's completed so far, the better they look.

Eric Puchalski spent a day with Larry at his hangar at Chino Airport recently. Check out Eric's article about how that turned out beginning on [Page 6](#).



July 2021 Squadron Meeting

Rob Hahn brought along a **McDonnell Douglas T-45 Goshawk** foamie that he picked up on eBay for 50 bucks. Controls, pilot, and other hardware came from an F-16 he found in the trash at the field.

Never satisfied with the conventional, Rob decided to power the T-45 with a custom fan he built using an 80mm fan unit originally purchased from Motion RC. He decided to convert the electric unit to glow just to try out some ideas. To do that he modified an O.S. .15 from front to rear intake and fitted it with a tuned pipe. He then mounted the engine in the all-aluminum housing that came with the original fan unit. The housing also attaches to the cylinder head so the entire fan housing acts as a heat sink for the engine. Rob said he gets up to 24,000 RPM and approximately 1.3 pounds of thrust from this configuration.

See the article with more details about Rob's latest project beginning on **Page 12** in this issue.



Eric Puchalski (hey, that's me!) showed the fuselage of his **Big John** model that's in its final finishing stages. The model is built from plans published in *RC Modeler* magazine in 1967. Eric started actual construction in 1994 so this one's been a LONG time coming! With an 84" wingspan, the model is powered by an NGH 17cc gas engine.

The model is not a scale model of anything but it does resemble one of the big Golden Age biplane trainers. Eric chose a sorta-scale rendition of a 1930's U.S. Navy trainer. The most recent hold up was trying to find a way to apply insignia and other markings without resorting to buying custom decals.

He recently acquired a vinyl cutter that promises to take care of the marking problem. By drawing and cutting custom paint masks, Eric hopes to get this model wrapped up and test flown in time for Warbirds & Classics.



SQUADRON PROJECTS: ROB HAHN

As mentioned elsewhere in this issue, **Rob Hahn** is not one who is accustomed to following the instruction booklet. His latest exercise started life as an EDF purchased at a bargain price on eBay. While that might be enough for most of us, Rob thought of it as a *starting point*. After the “Electric” part of “EDF” proved to be mostly not working, Rob started wondering how he could use this perfectly good airframe without having to buy replacement parts from some (probably defunct) distributor in China. His solution is pretty interesting...

Rob is always looking for ways to apply information or technology that may not have been explored before (at least not by Rob!). He describes his approach to projects like this as mostly “aimless tinkering.” For example, he could have purchased another 80MM electric fan unit for the model but instead he decided to build a custom fan based on an 80MM unit originally purchased from Motion RC. But, he decided to convert the electric unit to glow just to try out some ideas. To do that he modified an O.S. .15 from front to rear intake and fitted it with a tuned pipe (**Photo 2**). The tuned pipe wasn’t exactly what he was looking for and didn’t deliver the performance he wanted. So he went to work and came up with a way to improve performance while at the same time making it quieter without losing any power. He then mounted the O.S. engine in the all-aluminum housing that came with the original fan unit. The housing also attaches to the cylinder head so the entire fan housing acts as a heat sink for the engine. **Photo 3** shows the entire power assembly installed in the T-45. Rob said he gets up to 24,000 RPM and approximately 1.3 pounds of thrust from this configuration.

Tests with the .15 powered ducted fan proved that a little more power was needed for this particular airframe. Initial flights showed that the trim was good and the airplane flew OK. But with a full tank it struggled on the climb out and downwind stretch. After that, it just felt generally underpowered. But as long as he “flew” it, there were no surprises. He expects ten minute flights out of it once he gets the power management issues worked out.

During the maiden flight, Rob says he got himself into a predicament that he wasn’t skilled enough to get out of and “landed” short of the runway. That resulted in some damage, but nothing unreparable. The fuselage and nose gear needed some work but everything came out fine.

An interesting side effect of going down out in the OCMA Field tundra was that the throttle jammed wide open and continued to run at 24K RPM until Rob was able to get to the model and physically pinch off the fuel line. But before he got there it must have gotten a good helping of stones



Squadron Projects: Rob Hahn

and grit by the looks of the fan blade (**Photo 4**). The blades are cheap (\$5.95) and it's a good thing there was an air filter on the carb.

Rob and white EPO foam have a pretty good working relationship. He's leaving the airframe generally unpainted to save weight but he's adding just enough white paint to hide the stuff he doesn't want you and me to see. He admits that it looks a little rough when you get up close (an effect he calls "collateral weathering," or "CW") but it gets the job done at 15 feet.

After investing in all that research and testing, Rob was on the fence about sprucing up the overall looks. A closer examination of some of the original markings (**Photo 5**) tipped the balance in favor of ordering a set of markings from Callie Graphics.

Engine starting seemed to be an issue and, when asked, Rob told how he'd already thought of that (of course). He built a custom starter mechanism, as shown in **Photos 6 and 7**. He started with a belt-driven device he built years ago for another project and just made a new drive hub for this model.

At some point, Rob decided the Macs tuned pipe was too noisy and needed to be quieted down a bit. So, because he's Rob, he modified the pipe (**Photo 8**). The tapered cone is from a nitro buggy pipe and is attached to the end of the Macs pipe with three screws. This is similar to a typical motorcycle muffler with a Swiss cheese pipe surrounded by fiberglass packing. Initially, this configuration resulted in a lot of oil accumulating in the packing material. But after more head scratching and experimenting he came up with something that results in considerably less than half the amount of oil as was being collected initially. The latest configuration is very quiet (even at 24K RPM) and results are very promising.

As with most of Rob's efforts, it's been interesting to tag along as he imagines what he wants and then figures out how to get there. With any luck, we'll see how all that comes together on his T-45 at Warbirds & Classics.



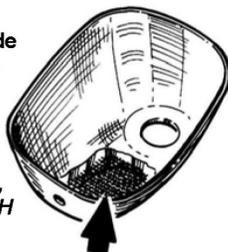
Shop Stuff

From *Model Airplane News Magazine*, July 1992

AIR-INTAKE SCREEN

Glue regular door screening inside your cowl to keep out debris. This is especially useful for preventing small stones from being sucked into the carburetor. Chrome mesh would be a nice finishing touch, too.

Jack Steinberger,
Twinsburg, OH



MONTHLY MEETING NIGHT

Monday
August 9, 2021
7:00pm

The August 2021 Meeting is On!

Beginning with the July meeting we were back to meeting face-to-face at the Green Valley Clubhouse. And the August meeting is guaranteed to be a barn-burner given that the **2021 Warbirds & Classics** event just finished the day before! (Sorry, no pizza this month.)

Keep in mind that visitors are always welcome so don't be shy about bringing someone. And remember that anyone with *anything* for **Show & Tell** will receive a raffle ticket for special prizes to be raffled off at the Squadron Annual Banquet in December.

Meeting location is the **Green Valley Adult Clubhouse**. The address is:

17250 Los Jardines West
Fountain Valley, CA 92708

Directions from the South:

- From **I-405 North**, exit at **Euclid**
- Turn **Left** onto **Euclid** at the offramp
- Turn **Left** onto **Slater**
- Go **past Los Jardines East**
- Turn **Right** at the light onto **Los Jardines West**

The Clubhouse is on the right about a half block past the school on the left.

Directions from the North:

- From **I-405 South**, exit at **Brookhurst North**
- Merge onto Brookhurst and turn **Right** onto **Slater**
- Turn **Left** onto **Los Jardines West**

The Clubhouse is on the right about a half block past the school on the left.

UPCOMING EVENTS

Special Note Regarding Events

A list of upcoming scale events that are easily reachable from Southern California is included on the following pages. We encourage everyone to participate in as many of these events as possible in order to show support for clubs that have gone through the same difficulties that the Scale Squadron has experienced recently. Remember that when you attend any of these events, ***you are an ambassador of the Scale Squadron.*** Be sure to mention your affiliation with the Scale Squadron and represent us well! (Also, bring back lots of photos and get them off to Eric Puchalski so they can be included in the next newsletter.)

Date	Host/ Location	Event/ Summary
Aug 6-8	Scale Squadron Irvine, CA	14th Annual Warbirds & Classics Scale Fun Fly One of the premier scale events on the West Coast, hosted by the Scale Squadron of Southern California. Newly surfaced 600' runway. <i>Amazing raffle!</i> AMA membership & FAA registration marking on all models are required. Saturday lunch included for registered pilots. RV parking (no hook-ups). <i>This is a high fire danger zone so absolutely NO open flame!</i> Fire extinguisher required in your pit area. No turbines or drones.
Sep 17-18	Delta Valley Modelers & Tokay R/C Modelers Lodi, CA	Warbird Fly-In & Night Fly Gates open at 8:00am & flying starts at 9:00am after pilot meeting on runway 30L. Registration \$20.00. Any & all types of warbirds are welcome. Current AMA membership required.
Sep 17-19	Hemet Model Masters Hemet, CA	SoCal USSMA Qualifier & Scale Meet Early registration & practice on Friday. Static judging on Friday & Saturday at 9:00am. Flight rounds start at 9:00am on Saturday & Sunday. Lunch provided on Saturday. Turbines allowed with waiver. AMA membership required for all pilots.
Sep 18	National Association of Scale Aeromodelers	2021 NASA Raffle Not exactly an "event" but well worth mentioning due to the terrific prizes being offered.
Oct 23-24	One Eighth Air Force	One Eighth Fall Scale Event (Dates are tentative, more info to follow)
Jan 28-30, 2022	Sun Valley Fliers	Winter Warbirds (Dates are tentative, more info to follow)

Errors & Omissions

If you see any errors in any of the information in this list or the flyers on the following pages, please contact **Eric Puchalski** or any of the members of the Scale Squadron Board of Directors. If your club is hosting a scale-themed event that's not on this list, contact Eric to get the event added to the list. If you have flyers, an informational website, or online registration page we would be happy to include that in this section as well.

ATTENTION SCALE MODELERS – PILOTS – FANS!!

**Public
Welcome!**

**FREE for
Spectators!**



**AUGUST 6-8, 2021
OCMA-IRVINE LAKE AIRFIELD**

14th Annual Warbirds and Classics Scale Fly-In

OCMA Flying Field (Irvine, CA) August 6-8, 2021

Registration & Event information: scalesquadron.com

Newly paved 600ft runway – Awards – Friday Night Early Bird Party - Saturday Night Banquet -On-Site Camping and more! Donations made to Semper Fi Fund

ENTRY FEE: \$40.00/Pilot (SCALE AIRCRAFT ONLY)

INCLUDES: 3 days of Flying, Friday pilot's pizza mixer, Saturday lunch (Famous Tacos) and Lunch Sunday, Free Camping available.

PRE-REGISTRATION - www.scalesquadron.com

No Turbines or Drones

Pilots – Don't Forget, there are a few requirements!

Current AMA Required! This is an AMA Sanctioned Event! OCMA REQUIRES proper FAA registration marking on your plane.

Parking is remote, there is NO PARKING next to the regular pit area! You must have a fire extinguisher in your pit area - If flying glow or gas, NO DRIPPING on the pit or runway surface!!!! You must catch/recycle fuel! NO SPILLS!

CLUB MEETING 2nd MONDAY OF EVERY MONTH

MEETINGS 7PM - 17250 LOS JARDINES WEST, F.V., CA 92708

Delta Valley Modelers
&
Tokay Radio Control Modelers

presents

Warbird Fly-in

Gates open at 8am and flying starts at 9am after pilots meeting on runway 30L. Registration is \$20.00 and you must have a current AMA card. Any and all types of War Birds are welcome.

Lunch Available \$8

For more information contact
Jose Macias @ 209-464-5313 or
Wally Felahy @ 209-329-7239



& Night Fly

Friday September 17th 2021
Saturday September 18th 2021



Night Fly

ALL WELCOME!

Friday September 17th 2021
Saturday September 18th 2021

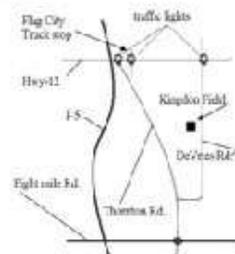
Kingdon Air Park

12145 North De Vries Road
Lodi, Ca.

RV's are welcome to arrive Friday
and spend two nights at the
airport. Just show up.



DELTA FLYING CLUB
FC



PLACEMENT ★ PRECISION ★ REALISM

“SOCAL USSMA QUALIFIER”



R/C SCALE CONTEST

Sept. 17-19, 2021

HEMET, CA

Pilot's Fee: \$35

Early Registration and Practice on Friday
Static Judging on Friday & Saturday at 9am
Flight Rounds Start 9am Saturday & Sunday
Lunch Provided on Saturday
Turbines Allowed w/waiver
AMA Required For All Pilots

600ft x 72ft Paved Runway
Overnight Dry Camping Available
Hotels & Restaurants Ten Minutes Away!

Free for Spectators!



Competition In Five Classes:

**EXPERT
TEAM
ADVANCED*
PRO/AM PRO*
PRO/AM SPORTSMAN*
(*ARFs allowed)**

Beginners Welcome!



Further Details at
U.S. SCALE MASTERS
www.usscalemasters.org

C.D./ Contact: Curtis Kitteringham
cak11@cox.net
(760) 807-5519

Hosted by
HEMET MODEL MASTERS
www.hemetmodelmasters.net

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



LEGEND HOBBY MORAINÉ SAULNIER
ElectroDynamics
ELECTRONICS FOR THE SERIOUS HOBBY MODELER



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



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

Advancing & Promoting the Hobby of Remotely Controlled Scale Miniature Aircraft

Many people from all walks of life find it fascinating to produce a miniature working replica of a full-size object, be it a doll house, sailing ship, or operating steam locomotive. In our case it is our passion for flying machines that motivates Scale Squadron members.

Today as scale modelers we pursue nearly every possible aviation subject with the confidence that not only will our project be successful, but that it may well outperform that of its full-scale counterpart.

Squadron members delight in the pursuit of authenticity for scale projects. This requires research and documentation of specific aircraft and their variants.

Many of the flying replicas thus created are of Museum Quality and our members take to the skies with these flying miniatures regularly and successfully.

On the other hand, not everyone wants to make a scale masterpiece. That's OK, too! Whatever pleases you is what counts. Whether you are kitbashing, volunteering at charity aviation events, or making molds from scratch for Scale Masters or AMA National Championship competition scale aircraft, Scale Squadron is a club that embraces all facets of scale aviation R/C modeling and the related community.

Scale Squadron Club Meetings are held on the

second Monday of each month at:

Green Valley Adult Clubhouse
17215 Los Jardines West
Fountain Valley, CA.

Meetings start at **7:00PM** and last about 2 hours.

Our meetings throughout the year include the usual club business as well as Member Show & Tell, Modeling How-Tos, Aviation and Industry presentations, and good ol' time social gathering to help enlighten and encourage our membership to push the boundaries in the art of Miniature Aircraft Replication. Visitors are always welcome. All members and visitors alike are encouraged to bring their latest scale models and projects!



JOIN US!

Membership Requirements

Membership in the Scale Squadron is open to all Academy of Model Aeronautics (AMA) members who are interested in safe formal and informal flying, including the research, building, and flying of Scale R/C Miniature Aircraft.

Membership Annual Dues are \$30.00 covering January 1 through December 31. Membership begins after verification of your current AMA membership card, your FAA Small UAS Certificate of Registration, and receipt of Scale Squadron membership dues.

The Scale Squadron Board reserves the right to deny or delay new membership approval.

Membership Benefits

Membership in the Scale Squadron includes:

- ◆ A subscription to the *Scale Dimension* monthly online newsletter.
- ◆ Squadron membership card and name tag.
- ◆ Advance notice of scale aircraft events.
- ◆ Annual Holiday Banquet for members and one guest.

Membership Meetings

Meetings are the second Monday of each month at 7:00pm. The December meeting includes the Annual Holiday Banquet and raffle drawings for anyone who presented a topic at any of the monthly meetings.

See the *Who We Are* section of this issue for details on the meeting location.

How to Join

If all this sounds like something you would like to be a part of, you can join us in a couple ways:

1. See the last page of this issue for a membership application. Fill out the form and submit it along with the required supporting documents.
2. Use the [Online Form](#) on the Squadron's website to provide basic information and pay the membership dues. A copy of the online form will be sent to you via email. Print this out and submit it with the required supporting documents.

How to Submit Your Application

All membership application submissions must include:

- ◆ A hard copy of the membership application form
- ◆ If the membership dues were not paid online then include a check for \$30.00 made payable to "Scale Squadron." Dues are not prorated if you join after January 1.
- ◆ A photocopy of your AMA membership card
- ◆ A photocopy of your FAA Small UAS Certificate of Registration

Mail these to:

Scale Squadron Membership
PO Box 8074
Fountain Valley, CA 92728

You will receive your membership card and instructions for how to obtain your key to the OCMA field by return mail in about a week.

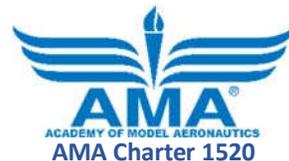


SCALE SQUADRON OF SOUTHERN CALIFORNIA

THE SCALE SQUADRON
OF
SOUTHERN CALIFORNIA



MEMBERSHIP APPLICATION



Membership in the Scale Squadron is open to all AMA members who are interested in safe, formal, and informal flying, including the research, building and flying of Scale R/C Miniature Aircraft. Membership Annual Dues are \$30.00 covering January 1 through December 31. Membership begins after verification of your current Academy of Model Aeronautics (AMA) Membership Card and receipt of Scale Squadron membership dues. Membership in the Scale Squadron includes a monthly newsletter and Squadron name tag. Meetings are the second Monday of each month at 7:00pm.

NEW RENEWAL Recommended by _____ DATE _____
Name _____ Spouse _____
Address _____ City _____
State _____ Zip Code _____ Email _____ Birthday _____
Home Phone _____ Work _____ Ext _____ Mobile _____
AMA# _____ FAA _____ USSMA _____ FCC/Ham _____ EAA _____

MODELING INFORMATION

Years in R/C _____ Modeling Level: New Intermediate Expert Need Help

Interest Area: WW1 WWII Golden Age Civilian Vintage Jets

Private or Commercial Pilots License & Type Rating _____

Are you interested in Scale Competition? Yes No Would Require Assistance

How did you hear about the Scale Squadron? _____

GENERAL INFORMATION

Meeting Preferences. Check all areas that you would like to see at the monthly meetings

How To Videos Guest Speakers Scale Techniques Scale Contest Prep

Your Ideas _____

Would you be willing to assist at Scale Squadron Events? Yes No Maybe with Help

Registration Gate Flight Line Judging Scoring Cooking

Comments _____

NOTICE: This information is only for the Scale Squadron Data Base and will not be shared or sold to any outside agencies. Your information may be used in a Scale Squadron Membership Guide available only to paid members.