

SCALE SQUADRON OF SOUTHERN CALIFORNIA





EVENTS & ACTIVITIES



Saturday, May 14th – Gilman Springs RC Flyers Swap Meet

May 14-15 Hemet Model Masters Open Pattern Contest

May 14-15 – Chino Air Show, Chino, Ca Planes of Fame

Sunday, May 22nd – Menifee Valley Flyers "War birds over Menifee"

Sunday, May 22nd – Corona RC Club Combat Event

June 4-5 Squadron Fly-In Chino, CA

Founders of the U.S. Scale Masters Championships www.scalesquadron.com



FROM THE SPOTTER'S VIEWPOINT

MIKE GREENSHIELDS SCALE SQUADRON COMMANDER



MIKEGREENSHIELDS@GMAIL.COM

We're on COUNTDOWN!

At the time I'm writing this we're about 6 weeks away from the coolest, smoothest, most exciting scale fly-in in Southern California! That's right it's almost time for our annual fly-in.

This year we're adding some exciting action of the event! Not only will there be tons of pilots, great food, spectacular prizes, and lots of gorgeous airplanes, now we'll ALSO have "Intro to Scale Competition" with flight judging, competition flight coaching, and a seminar designed to inform pilots on what it takes for them to compete in Scale Masters Competition with their favorite scale bird whether it be an ARF, bought 2nd-hand, or a scratch built masterpiece!

Randy Wilbur is heading this effort up and as we previously discussed, this event is going to require a group effort! From sign-in to raffle ticket taking, to sign set-up, the club membership needs to pitch in! And while this is a 4 day event including setup that does NOT mean we're asking you to kill 4 days! NO!

This is an easy volunteer program

that is rewarding, casual, and WILL result in another legendary Scale Squadron Fly-In! The idea is that you contribute the time you can, balance that time with getting in some killer flying during the weekend (hang out Friday or Sat night if you can too) and still have the wife and kids able to remember your name. So whether you can contribute 2 hours on 1 day or all day long all weekend long, the Scale Squadron Needs YOU!

Contact Randy and get signed up!

One of the best parts of our Fly-In is that we share it with one of the best general R/C clubs (and one of the biggest) on the west coast, the PVMAC! Prado is an awesome field and their membership is kicking in to help run the event. The club President Phil Goodwine and his family are not only members of the Scale Squadron, but they are hugely supportive of this event both with time and equipment. And their son Kyle is now expanding his competition experience by not only flying aerobatics, but now he's flying scale and has completed his first Scale Masters qualifier!

The club has been busy busy too! Larry Klingberg as usual had a successful showing at the Hemet

Scale Masters Qualifier. And not to be out-done, Tim Cardin with "crew chief" Sam Wright placed 3rd in Expert, his 1st time out! And what did he fly, he flew that Beautiful Staggerwing! Kyle Goodwine also has entered the world of scale competition with his entry in this qualifier! (Congrats to you Kyle!) Other guys in the club also had a great time communing with the Hemet guys running the qualifier as Tim Johnson got his feet wet in competition judging and Larry Wolfe kicked in some help with static workmanship judging. And I'm told the Hemet field has been renovated and is smoother and better looking than ever! The Hemet club continues to pursue scale and support scale competition. Congrats to them for another successful event.

If you're not a member of the Scale Masters you might want to get signed up. See the application in this issue!

On that SAME weekend, the Scale Squadron with the leadership of board member Joni Whitsitt hosted a R/C Airplane booth at the OC Fairground's Youth Expo. Thousands of kids got to see R/C aircraft in person, watch helicopters fly, and many signed up to go to

their local club for flight training! In the end this group effort was supported by the Scale Squadron, 9 other local clubs, and the AMA! It's hard to believe a more perfectly run or more organized effort. The inter-club coordination was extraordinary. Thank you to all club members who supported the event.

For those of you who attended the club meeting in April, you know just how cool it was. Thank you Greg for a demonstration of home-brew vacuum forming! There was so much going on at the meeting I didn't even get everything done! The month of May will be just as busy! When you miss even a little, you miss a LOT!!!

Our other favorite field, OCMA got an upgrade this month! I hope you're all out putting that field to use. Thank you to the OCMA staff for coming together to upgrade the field, making it even MORE AWESOME for all OCMA members!

The Scale Squadron is an amazing group of modelers and this month's activities are once again proof of that.

Now let's go flying!

-Mike Greenshields



Randy Wilber Showing off his new F4U and his modifications



Are Rosene showing his progress on his scratch built Banshee



Bob Rosenlof sharing his new Bird Dog



Paul Lee showing his Electric Cessna



Video of our fly-in from last year - Thank you Plane Video Art!

VACUUM FORMING

By: Greg Schultz

PETG - Glycol Modified Polyethylene Terephthalate Clear High-impact Polystyrene. White Opaque paints well Polyethylene Dull Translusent Does not Accept Paint

PETG can be Found at:

Hobby Stores that carry K&S Plastice Sheet Stock # 1304 .015 thick, 3 pieces 9"x12" \$4.00 MSRP

Industrial Plastic Supply
2240 South Dupont Dr 0.20x48"x96" \$16.00 MSRP
Anaheim, Ca 92806
714-978-3520

Procedure for Drape Cacuum Forming

- 1. Place plastic sheet on carrier board. Staple and seal edges with masking tape
- 2. Place mold on vacuum table. Coat mold with sealer and wax.
- 3. Check that vacuum is hooked up and operational.
- 4. Heat plastic sheet on carrier board until it droops. Do not over heat causing holes in plastic
- 5. When it droops and is soft QUICKLY move carrier board and plastic sheet over mold. Hold down tightly and turn and Vacuum.
- 6. once plastic forms over mold turn off vacuum, let cool and remove plastic laminate from mold.



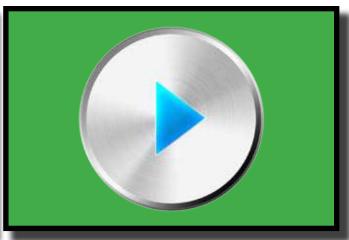




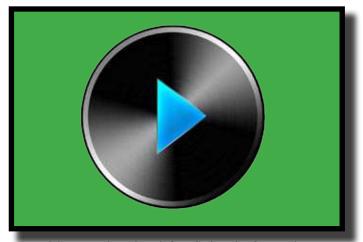
VIDEO LOG



Texas Flying Legends Museum - Saint Barths Airshow w/ cockpit cameras



Aerobatic P-51 Mustangs



Sopwith Camel and Spitfire flying in formation



F-4 Phantom Tribute



F-16 Low Level flying



Spitfire MH434 and Mustang Ferocious Frankie fly at duxford

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For store info, call:

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ON THE ROAD Come see us at these events:



Pizza Fun Fly May 14

At Apollo Field Sepulveda Basin Visit:

valleyflyers.com for details



Scale Fly June 4

At Prado Dam **PVMAC Field** Visit: scalesquadron.com for details



Saturday, May 21, Starting 11am 🛨 At HP's Fountain Valley Warehouse







- AIRTRONICS PROFESSIONALS
- AIRTRONICS UNIVERSITY SEMINARS
- 3 AIRTRONICS TEAM ALL-STARS
- FREE REFRESHMENTS
- 5 AIRTRONICS TRADE-IN PROGRAM
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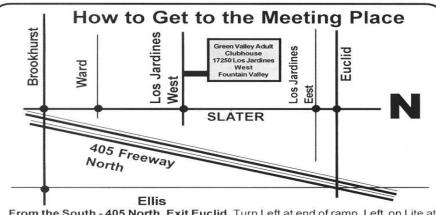
Another 16-page sale flier is coming soon! Watch your mail box for money-saving DEALS in all R/C departments!

WHAT IS THIS AIRPLANE?



Can you identify this airplane? That is great, but don't tell your buddies. At the next general meeting we will give you a piece of paper for you to write your answer on. Your answer will go in to a drawing for the night of the meeting. In the past Hobby People have donated prizes for this drawing.

The next Squadron newsletter will contain detailed information about this ariplane for your reading pleasure.



From the South - 405 North, Exit Euclid, Turn Left at end of ramp, Left on Lite at Slater, Pass Los Jardines East, Turn Right at light on West Los Jardines. Go thru Stop sign with school on left. The Clubhouse will be 1/2 block on your right

From the North - 405 South, Exit Brookhurst North, Turn Right at ramp light to Slater, turn right, Pass Silky Sullivan's on your left, FV Police Station on your right, Pass Ward, Left on West Los Jardines at the light, the Go thru Stop sign with school on your left. Clubhouse will 1/2 block be on your right.

MEETING Monday March 14 2010 7:00 PM

Green Valley
Adult Clubhouse
17250 West Los Jardines
Fountain Valley, CA 92708



Kyle Goodwine at the Hemet USSMA Qualifier



Larry Klingberg and Dan Egelhoff at the Hemet USSMA Qualifier



Tim Cardin and Sam Wright at the Hemet USSMA Qualifier



A Sunday morning at the field.



Bob Richards resting after a nice flight. Randy is busted again!



One Eighth Air Force at the Hemet USSMA Qualifier

Photo Credits: Larry Wright, Don Aitken, Tim Johnson

PIZZA FUN FLY ENGINE/ELECTRIC CLINIC

The Valley Flyers in conjunction with Hobby People

APOLLO XI FIELD WAY 144th SATURDAY

Field setup at 7490 a.m. Must have AMA®

BEOD EATHLY TO SECOR RML

10:00 am - Engine Operation Tips/Hints/Insights

Care and Feeding of your Favorite Sport Glow Engine. Prop Selection to Break-in, Airflow to Diagnostics.

10:45 am - 2.4 ghz Radio Use/Inttallation

Airtronics Radio Overview

A Basic Explanation of how 2.4Ghz works, Installation Tips, Pitfalls, Voltage and More. Preparation is the key to success and these basic tips help ensure success.

11:30 pm - Li-Po Battery Primer

Handout Covers Basic Terms, etc. -Q&A Session FollowsEach Seminar

"Question and Answer" session following each seminar.

FREE to VF Members

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CDBobSmfthoflymbs@socialrr.com

Magnum Althonics and Hobby People products







Storyone is Welcome

\$10 Entry Fee

for hon-members

Includes Fizza

www.valleyflyers.com

**AMA & Valley Flyers Signup Sheets available



MAGNUM

Hobby People:

T-37 TWEET

The Cessna Aircraft Company of Wichita, Kansas provided the United States Army during World War II and the Korean War with utility, light transport, and observation aircraft, particularly the "O-1 Bird Dog" series.

In the spring of 1952 the United States Air Force (USAF) issued a request for proposals for a "Trainer Experimental (TX)" program,

specifying a lightweight two-seat basic trainer for introducing USAF cadets to jet aircraft.

Cessna responded to the TX request with a twin-jet design with sideby-side seating. The USAF liked the Cessna design, which was given the company

designation of "Model 318", and the side-by-side seating since it let the student and instructor interact more closely than with tandem seating. In the spring of 1954, the USAF awarded Cessna a contract for three prototypes of the Model 318, and a contract for a single static test aircraft. The Air Force designated the type as XT-37.

The XT-37 had a low straight wing, with the engines buried in the wing roots, a clamshell-type canopy hinged to open vertically to the rear, a control layout similar to that of contemporary operation-

al USAF aircraft, ejection seats, and tricycle landing gear with a wide track of 4.3 m (14 ft). It first flew on October 12, 1954.[4]

The wide track and a steerable nosewheel made the aircraft easy to handle on the ground, and the short landing gear avoided the need for access ladders and service stands. The aircraft was designed to be simple to maintain,



with more than a hundred access panels and doors. An experienced ground crew could change an engine in about a half hour.

The XT-37 was aerodynamically clean, so much so that an air brake was fitted behind the nosewheel door to help reduce speed for landing. Since the short landing gear placed the engine air intakes close to the ground, screens pivoted over the intakes from underneath when the landing gear was extended, to prevent foreign object damage.

The XT-37 was fitted with two Continental-Teledyne J69-T-9 turbojet engines, French Turbomeca Marboré engines built under license, with 920 lbf (4.1 kN) thrust each. The engines had thrust deflectors to allow them to remain spooled-up (i.e. rotating at speeds above idle) during landing approach, permitting shorter landings while still allowing the aircraft to easily make another

"go-round" in case something went wrong. Empty weight of the XT-37 was 2.27 tonnes (5,000 lb).

Tests showed the XT-37 had a maximum speed of 628 km/h (390 mph) at altitude, with a range of 1,505 km (935 mi). The aircraft was unpressurized, and so limited to a ceiling of 7.6 km (25,000 ft) by USAF regulations.

The initial prototype crashed during spin tests. Later prototypes had new features to improve handling, including long strakes along the nose, and an extensively redesigned and enlarged tail. After these modifications the USAF found the aircraft acceptable to their needs, and ordered it into production as the T-37A. Production aircraft remained tricky in recovering from a spin; the recovery procedure was complex compared with most aircraft.







ALL SCALE OR STAND-OFF SCALE AURCRAFT ARE INVITEDS NO TURBING OR PROPILE AURCRAFT - AMA SANCTIONED EVENT

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DETAILED ARF •BEST ELECTRIC PROP
•BEST EDF JET •BEST REALISTIC FLIGHT PERFORMANCE •
COMMANDER'S AWARD

COMMANDER'S AWARD

 SATURDAY NIGHT BANQUET & AUCTION • FOR MORE INFORMATION VISIT OUR WEBSITE WWW.SCALESQUADRON.COM LANDING FEE: \$25 PER PILOT

NEW FOR THIS YEAR! SCALE COMPETITION





NO HOOK-UP \$10.00 PER NIGHT











CONTEST DIRECTOR: RANDY WILBUR 949-683-9662 RWILBUR@VIDEOTECHENG.COM

Scale Model Realism



Dedicated to the growth of Scale

Dear fellow Scale Modeler,

The active support of the Members continues to be the backbone of the U.S. Scale Masters Association, Inc. (USSMA). The programs the association provides would not be possible without membership support.

*The membership year starts after each Championships Event—in the early Fall—and runs till the following Year's Championship

USSMA is a qualified, non-profit organization under 501(c)(3) of the Internal Revenue Code, which means al or a part of your donations qualify as a tax deduction..

*** Check One - New Application Membership Renewal: *** □ Youth \$25.00 ☐ Classic \$35.00 ☐ Champion \$75.00* ☐ Lifetime \$750.00** .00 **Additional Donation** .00

Classic & Youth - Member Hat, Member Name Tag, Current Year Membership Card, Quarterly Newsletter, Current Year Competition Guide, Current Year Pin, Current Year Sticker, Discount price on a USSMA Jacket, \$5.00 discount at participating qualifiers for Expert/Team/Advance/Open class, Members only website areas, Voting rights within USSMA, Discounts at USSMA supporting vendors (see website for details) \$25.00 entry fee for championships.

Champion - all of above plus a Polo Shirt & waived Registration Fee at the annual Championships event.

Lifetime - Same as Classic with the following exceptions. Lifetime Card and Name tag, USSMA Life Member Hat and Jacket

(* The amount deductible for Federal income tax purposes at the Champion level membership is limited to the excess of the value of shir provided. The estimated value of the shirts is \$18.50. ** One time payment of \$750.00 or \$75.00 for 10 months with credit card.)

Thank You for Your Support!

E-mail Address: Member Name: Best Contact Phone: () -Address: **State/Zip:** ____ / _____ City:

USSMA Number: AMA Number :

(If existing USSMA member)

Please fill out the information below for the records:

Shirt Size (circle one) M L XL XXL XXXL

Check / Money Order # Total Amount Enclosed: \$.00

(Make checks payable to USSMA)

Comments Welcome

You can also apply online and pay credit card via paypal® at http://www.scalemasters.org/MembershipRenewal1.html

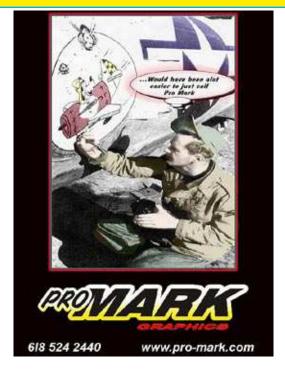
Please complete this form and return it today. Your membership **DOES** make a difference.

Mail To: USSMA C/O Gary R. Norton **415 Charman Street**

Oregon City, OR 97045

Please Allow 3-4 Weeks for Processing and Shipping

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SCALE SQUADRON OF SOUTHERN CALIFORNIA



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 the Scale Squadron.

Our members have diversified interests in all facets of aviation history, from the first aircraft to fly at

Kitty Hawk to the modern day jet. Advancements in technology have provided us with ready-to-fly kits. on-board cameras, inflight telemetry, multicylinder engines as well as high powered miniature jet turbines that burn real jet fuel. Today as scale modelers we pursue nearly

counterpart.

Many people from all walks of Squadron members delight in the club that embraces all facets of scale 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 every member makes a scale masterpiece. That's OK too! Whatever pleases you is what counts. Whether

aviation R/C modeling and the related community.

Scale Squadron Club Meetings are held on the 2nd Monday of each month at the Green Valley Adult Clubhouse, 17215 Los Jardines West (just north of Slater) in Fountain Valley, CA. The meetings start at 7PM and last about 2 hours. Our meetings throughout the year include

> the usual club business as well as Member Showand-Tell. Modeling How-To's, Aviation and Industry Presentations, good ol' time social gathering to help enlighten and encourage our membership to push the boundaries in the art of Miniature Aircraft

Replication. Like-minded visitors are always welcome. All members and visitors alike are encouraged to bring their latest scale models and projects!



every possible aviation subject with you're kit-bashing, volunteering at the confidence that not only will charity aviation events, or making molds our project be successful, but that from scratch for Scale Masters or AMA it may out perform that of its scale National Championship competition scale aircraft, Scale Squadron is a



Jerry Ortego, Squadron Founding-Member after a nice flight with his FW-190 at OCMA Field



Larry Klingberg, World Famous, Award Winning Scratch-Builder



Our UK Squadron Wing Commander Ted Cooke Enjoying the usual flying conditions in the UK

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