

# Hot Air



## Message from the President

September, 2012

For those of us who have been PSF members for a while, it is interesting to see the changes in the hobby over the years, but the changes in the club have been significant as well. When I first joined the club sometime in the mid-90s, PSF was a glider club with our main site at Del Cerro. We would often head to Rocky Point when the wind was out of the west and Del Cerro was un-flyable.

Electric flight was a challenge due to heavy, inefficient brushed and often geared motors and even heavier battery packs. A 3-4 minute flight was the best you could do on a good day. A few ARF gliders existed on the market and most of them were heavy and flew poorly. Foam was seldom used until the original Trick RC Zagi's became available.

Our annual membership was in the low to mid-twenties and consisted of a core group that had been around since the formation of the club in 1984. Many of the original members are no longer with us, which is sad to see. Not only have we lost a lot of knowledge and experience, but good friends as well. For some of us, me included, these are the guys that taught us the finer skills of soaring and building. I owe them a lot and think of them whenever I toss a plane off a cliff.

Unfortunately, another one of our early members has left us. Bob Clauser passed away August 21st. He was 90 years young. I don't know when

Bob joined the club, but he was a member when I joined. Bob was an Electrical Engineer with a degree from USC (we never held that against him) and worked with several different local aerospace companies. Bob was a long-time Rancho Palos Verdes resident and a regular up at Del Cerro for many years. Bob was a craftsman. He built meticulous aircraft that were often his own design. The planes Bob built flew as well as they looked and he never showed up at the cliff

with a plane that didn't look its best.

Bob was a mentor when it came to design and building and he will be missed.

At last month's meeting, in response to my August message about all of the neat things or members are into, Udo

Kolter brought in a couple of the toys he has been playing with. Udo has never shied away from speed and his electric powered cigarette boat is no exception. Udo also brought in a One Design sailboat that looks fast as well. See the pictures in this newsletter. Since the last meeting, Udo experienced a significant health event and is recovering. Keep him in your thoughts and lets hope for a full recovery. From what I have heard second hand, he is doing well.

If you have a neat modeling activity you would like to share, please bring it to show-and-tell at the next meeting. We will have a Fun Fly at Del Cerro **Saturday, September 8th**. It might be time for a pizza on the hill session. We will discuss this at the Wednesday meeting on

### Next Meeting

**Wednesday,  
September 5th  
7:30 pm**

**La Romeria Park  
19501 Inglewood Ave**

### Upcoming Fun-Flys

**Del Cerro      September 8th  
Entradero      September 28th**



the 5th. The Entradero Fun Fly will be **Saturday, September 22nd**. I think I'll head out and toss a glider in memory to a few lost friends. Hope to

see you at the field or the next meeting. Fly safe and have fun.

-Jeff

### Notes from the Vice President



*Here are a few pictures from Jerry's recent visit to the USS Midway in San Diego...*







## Notes on Thread-Locking Adhesives

Thread-locking adhesives such as the Loctite brand are different from ordinary glues that rely on the evaporation of a solvent or chemical reaction of two components. Most all popular thread-locking adhesives are of the anaerobic cure type, which means they cure in the absence of oxygen. This occurs typically in threaded joints or tightly fitted surfaces. Excess adhesive on the outside of the joint will not harden because it's exposed to oxygen.

While these adhesives cure primarily in the absence of oxygen, they must also react with the mating material surfaces. The range of material reactivity runs from very quick to not at all. Parts must also be very clean and oil-free to produce the best results, so the best joints (and fastest cure) are obtained using some sort of solvent and/or primer-activator.

Steel, copper, iron and brass are considered active surfaces and if clean, will not require an activator if standard cure times are acceptable. Aluminum, stainless steel, gold and brightly plated surfaces generally have low surface activation properties and an activator is recommended. Loctite 7649 is the most common solvent /activator, is commonly available and may be used to clean, activate and prime surfaces in one operation. The smallest size available comes in 0.9 ounce spray can. You'll have to look on Amazon or some industrial supplier to find it, as it's not carried by hobby shops.

Use of the solvent/activator will clean the surfaces, speed curing of the joint, promote curing on inactive surfaces and increase the gap-filling capabilities of the thread-locker adhesive. A handling level of cure takes about 5 minutes and full cure takes about 6 hours. The product is applied to both surfaces and allowed to dry thoroughly before applying thread-locker. The following descriptions and directions for use

were obtained from a Loctite website:

*Loctite® Threadlocker Red 271™ is designed for the permanent locking and sealing of threaded fasteners. The product cures when confined in the absence of air between close fitting metal surfaces. It protects threads from rust and corrosion and prevents loosening from shock and vibration. It is only removable once cured by heating up parts to 500°F (260°C).*

*Loctite® Threadlocker Blue 242® is designed for the locking and sealing of threaded fasteners which require normal disassembly with standard hand tools. The product cures when confined in the absence of air between close fitting metal surfaces. It protects threads from rust and corrosion and prevents loosening from shock and vibration. Loctite® Threadlocker Blue 242® is particularly suited for applications on less active substrates such as stainless steel and plated surfaces, where disassembly is required for servicing.*

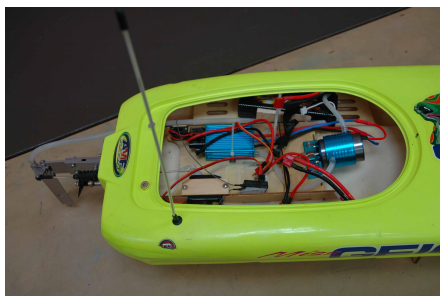
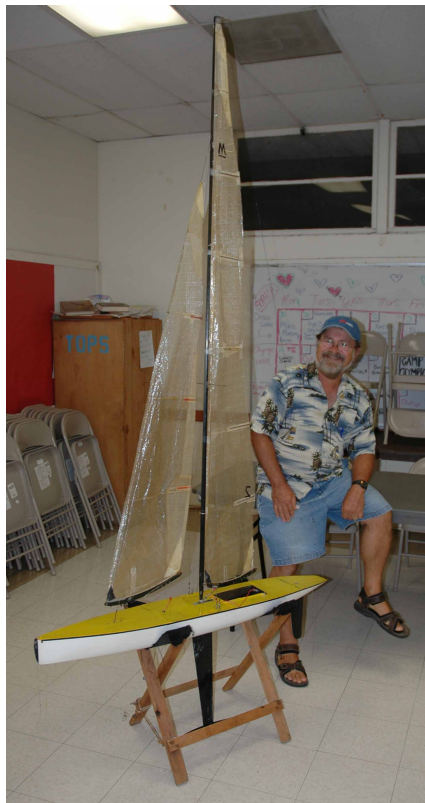
*LOCTITE® 7649™ is used where increased cure speed of LOCTITE® anaerobic products is required. It is especially recommended for applications with passive metals or inert surfaces and with large bond gaps. LOCTITE® 7649™ is particularly recommended when prevailing temperature is low (<15 °C).*

*Directions for use:*

- 1. Spray or brush on the activator on both mating surfaces to be bonded. For small gaps, treatment of only one surface may be adequate. Contaminated surfaces may need repeated treatment or special degreasing prior to activation to remove any dissolvable contamination. Porous surfaces may need two treatments of activator.*
- 2. Allow the solvent time to evaporate under good ventilation until the surfaces are completely dry.*
- 3. After activation, parts should be bonded within 1-month. Contamination of the surface before bonding should be prevented.*
- 4. Apply the Loctite Anaerobic product to one or both surfaces and assemble parts immediately.*
- 5. Where possible, move surfaces in relation to each other for a few seconds on assembly to properly distribute the adhesive and for maximum activation.*
- 6. Secure the assembly and allow to cure. Most bolted joints are self-securing so it's not necessary to wait for a handling cure.*



Show and Tell at the August Club Meeting...



*Udo Kolter's  
"Fast Toys"*



*Arnold's new  
"Extra 260"*

August Raffle



*Next month, we will likely have another great raffle, if enough members show up.*

*Come on out for the fun!*



**Club Officers and Volunteers for 2012**

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