

May 1994

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The News Letter of the *Manned Space Center Radio Control Club*

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## President's Corner

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Ed Copeland

Hope you enjoyed the presentations by Bob Obenberger and Bryan Morris. Bob's very candid story of the history of his company and the development of his product line were of particular interest to me. Bob obviously harbors the good-old American can do attitude. And Bryan's shared experiences with the diesel engine conversions was very interesting. I had intended to ask whether there are any 4-cycle diesel conversions. It would seem that the usual higher compression ratios found in 4-cycle engines might be naturally suited for diesel. The heads would, of course, be much more complex and expensive, unless the 4-strokes could burn diesel with the original heads. Help me if you would Bryan.

We will have Fred Maupin at our next meeting to talk about the TORA TORA TORA aircraft. Be sure to attend this one. I believe we will be able to see photos of very interesting aircraft taken on the Fox Pictures movie sets. Fred is an FAA inspector, by trade, and an aircraft person by instinct. I hope we can get a word or two about FAA inspecting as well.

The Reno Style races take place during the second week in May in Galveston. This should be the largest such event we will see in this part of the country. The more support we give this event the better chance there will be of having future big events  
*(continued on Page 2)*

## Words From The VP

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Ray Randolph

**Goings' On** - Mother Nature put a rain delay on our original April Fun Fly date, but hopefully by the time this newsletter is issued we will have had a really fun filled event.

**Next Meeting  
This Thursday  
May 12th  
7:30 PM  
Clear Lake Park Building**

We owe Texas Model Trends a special word of thanks for the support they provided in the form of prize certificates. The basic amounts for prizes authorized by the club were substantially augmented by certificates for the winners - THANK JOE!!

Bob Obenberger and Bryan Morris both had very interesting presentations for the April club meeting. Thanks to both for their efforts on our behalf.

The Galveston Air Races will be going on the week of the next club meeting. Resha and I have volunteered to help out at this event, so we will be missing the May club meeting.

*(continued on Page 3)*

# Minutes from the April 1994 Meeting

Resha Hill - Secretary



Ed Copeland called the meeting to order at 7:35 pm. The minutes of the previous meeting were accepted as published in the newsletter.

**Old Business:**

-Youth Involvement Program - Mike Laible presented a proposal for consideration. The program will be aimed at age group 12 to 14 years and a student size of 10 to 12. It looks like a 3-day workshop will work out, probably held on Saturdays, 4 hours each day. Mike is currently waiting for the arrival of a Midwestern Educational kit to evaluate. He will continue working on items such as insurance, reservations for location (will probably be the Seabrook Community Center), checking on a field location, and work up a cost breakdown. Volunteers were solicited at the meeting to help on the program as instructors. The following members volunteered: Don Fisher, Mike Goza, Wayne Green, Ray Randolph, and Bud Taylor.

-May Fun Fly - The May "helicopter" fun fly has been rescheduled until June. The reschedule is to avoid conflict with the Galveston Air Show.

**New Business:**

No new business...

**Model of the Month:**

Mike Goza does it again! Mike brought his new XL Pro helicopter, displaying his expert building and painting talents. The helicopter is made of carbon fiber which will make it stronger and lighter, and has glass blades. The engine OS61, was modified by Power Concepts. Mike plans to take this one to the Nationals, we wish him luck!

**Entertainment:**

Bob Obenberger entertained us with stories on how Tru Turn Spinners came about, also bring door prizes to be presented to club members.

Bryan Morris educated us on OS40 diesel conversions.

Refreshments - Jeff Longmore volunteered for bring refreshments to the May meeting.

**Calendar of Events:**

May 7-8: 6th Annual Texas R/C Club Big Bird Fly-IN, Texas City

May 10-15: Texas Unlimited R/C Air Races, Galveston

July 9-10: Prop Nuts Big Bird Event, Crosby

October 8 - 9: Prop Nuts Charity Event, Crosby

## The R/C Flyer

EDITOR

**Jerry Hajek**

ASSEMBLY AND POSTING

**Daniel Hamala**

Articles and want ads can be submitted to Jerry Hajek, 486-4722 or on 5.25" or 3.5" floppies in ASCII, Word Perfect, PFS, Word Star, Modem Xfer, or hard copy formats sent to: 1035 Bellgreen, Houston 77062. "Support Your R/C Flyer"

*(Pres from Page 1)*

in the area. I hope there is a good turn out. Check it out if you can.

Mike Goza was the hands down winner of the aircraft of the month with his new chopper. If you have not seen it you have missed a great trim job. Mike thought he was making it easy for us by slipping it in as solo entrant but it would certainly have done well no matter what showed up. I hope I get to see it at the field. Mike told us that this will be his new competition machine. Nice job Mike, and good shooting.

For those of you who saw the drawings of the 111 inch Avro Vulcan that were on display last month, I have an update. Our customer located a full scale Vulcan in a flying museum at Barksdale Air Force Base in Bossier City Louisiana. He made a trip over there for photos and any technical info he could get on the aircraft. He managed to meet the crew chief, a lady, who offered to provide drawings including those incredibly complex airfoil sections. I hope to be able to bring some of those drawings and photos for *(continued on Page 3)*

**FOR SALE...**

**BRYON GLASSAIR**

*F/G Fuselage, Cowl, and Wheelpants  
90" Wing Span (2-piece), 72" Fuselage  
40 Degree Flaps*

*Instrument Panel & Red Vinyl Upholstery  
Webra Bully Engine With Electronic Ignition  
(5 hour run in time), 1600mah Battery*

*Futaba 7ch, 8 Servos, & 1600mah Battery (ch 48)*

\$500.00 AIRPLANE ONLY

\$100.00 WEBRA BULLY 35 ENGINE INSTALLED

\$100.00 RADIO INSTALLED

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\$700.00 READY TO FLY

(Note: Does Not Include Transmitter)

**PITTS BIPLANE FROM HOBBY SHACK KIT**

*All Wood, Wing Span 68", Fuselage 62"  
F/G Cowl & Wheel Pants  
Excellent Ground Handling*

*Webra Bully 35 (GLOW FUEL, 8000rpm 12% Red  
Max & Zinger 18-8 prop)*

*World Engine 7ch Radio  
(ch 24) w/ 5 Servos & 1600mah Battery*

\$500.00 AIRPLANE ONLY

\$150.00 WEBRA BULLY 35 INSTALLED

\$100.00 RADIO INSTALLED

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\$750.00 READY TO FLY

(Note: Does Not Include Transmitter)

...call Ray Hoosier for more detail  
471-8540(H) or 483-9366(W)

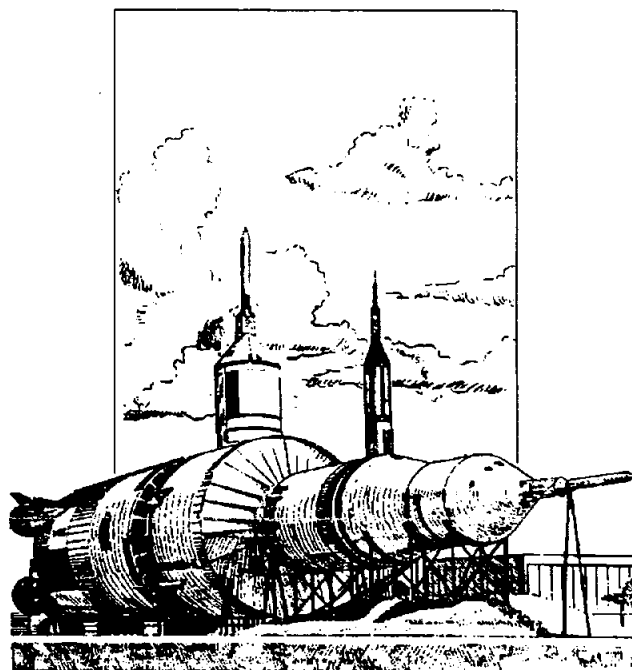
**WANTED...**

*Tail Wheel Assembly for an Ultra Sport 40*

...call Darrell McGregor 334-2271

**JSC R/C Club**

Did you know there was a JSC RC Club? Well, There is such a club. Many years ago it was formed as an administrative tool to allow the MSC R/C club some "rights" as to flying on the JSC site. It is made up of current and retired NASA civil service employees. No dues or meetings are planned but qualified members of MSCRCC are invited to join by providing their name, address, phone number, and current 1994 AMA number to Don White, 488-1024 or 37647. The AMA requires that 6 people are needed to form a club and the current membership of the JSC club is near that number. Don's address is 1603 Bowline, Houston, TX 77062. If the JSC club fails in membership the result will be horrible! Come on due your part! Volunteer!



**WANTED...**

*OS or SuperTigre .90*

...call Don White 488-1024

(Pres from Page 2)

us all to see. I will also have some updated CAD drawings.

I hope to bring an airplane next time. It has been so long since I brought one that I had better go back to square one. So, I am bringing a trainer. Doesn't look half good either. Did I say that right? I converted a trainer 60 that Jim built to tail dragger. It was a good construction job up to the point where I took over. Funny, it never occurred to me that it might be tail heavy as a result of loosing its nose wheel. But with shifting everything forward as much as possible, including putting the battery just behind the firewall, under the tank, it is marginally balanced. But, at least, my part of the cover job is real mediocre. Did I say that right? I also have a 20 size P51 to show. It is a much better construction job. Some one else did that one as well. Some day, however, I will bring one that I built. It's only fair. I know I said THAT right.

I was reading in the NASA Tech Briefs about a 3-D scanner! I have requested more info from the manufacturer. An accompanying photo shows a pencil looking probe that is used to trace out a line on a surface. The implication is that the line is then drawn in 3-D in some sort of CAD software. This would be very interesting. I have heard of a laser scanner that will scan 3-D objects but the process involves mounting the object on a spindle and rotating the object while the laser pans along in a fashion similar to a lathe tool. The hand held probe idea would be a tremendous improvement.

A final would you believe note. I had an opportunity to tour the laser lithographic lab in building 9S at NASA. I was very impressed. There is a machine which houses a tank containing a very special UV sensitive epoxy. A laser is then driven by CAD files residing in a Silicon Graphics machine to trace out a 3-D object in layers. The epoxy, which costs approximately \$500/gallon, is hardened only in the presence of the laser produced UV. The solid object is grown one layer at a time in the tank. Jim Akkerman, who spoke at our club some months ago, used this machine to fabricate a tiny pump turbine for

an implant artificial heart now under development. I can hardly wait until the cost of this technology comes down to the point that I can grow an RC model plug for a glass/epoxy mold. Oh well, dream on.

*See you at the meeting*

(VP from Page 1)

**Mini-Product Review** - Top Flight is selling a magnetic prop balancer that is without a doubt - the best ever. Two strong magnets are mounted in upright end supports and the supports are held together by two metal rods at the base. This "U" shape frame provides clearance for props up to 24 inches to be balanced between the supports. A small metal shaft (with pointed ends) is suspended in the magnetic field of the magnets, but only one end of the shaft touches one magnet. There is about 1/16-in. gap between the shaft and the other magnet. A prop is mounted on the shaft with two plastic support cones that hold and center the prop on the shaft. The prop and shaft are positioned in the magnetic field and the moment of truth arrives. I have yet to have a prop balance without some trimming or painting with dope for adjustment. This tool is so sensitive that you can actually balance the small shaft and support cones before you put a prop in place. A great idea and this tool should last for a long, long time.

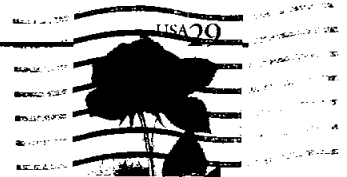
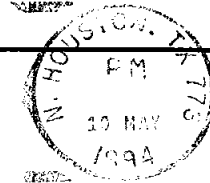
**May Entertainment** - I talked with Ed Copeland about the May meeting entertainment and Ed is contacting the historian on the "Tora, Tora, Tora" aircraft and also the person working on the "Vulcan Bomber" model project. Both subjects should make for a very interesting session.



Shades of the future...

## ***The R/C Flyer***

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Deer Park, Texas 77536  
(713) 479-1945



RESHA J. HILL  
2305 RAMADA  
HOUSTON, TX 77062

**May 1994**

### ***Fuel for Sale***

Jim Brock 334-1715  
John Campo 488-7748  
Charles Copeland 532-1570  
Tas Crowson 474-9531  
Don Fisher 474-4942(H) 483-2157(W)  
Wayne Green 484-3151  
Don White 488-1024

### ***Instructors***

John Campo 488-7748  
Charles Copeland 326-2360  
Paul Ellis 480-3839(H) 488-9878(W)  
Don Fisher 474-4942(H) 483-2157(W)  
Mike Goza (Heli and Airplane)  
554-4016(H) 483-4696(W)  
Wayne Green (Heli) 484-3151  
Jerry Hajek 486-4722(H) 246-4312(W)  
David Hoffman 476-5206(H) 479-1945(W)  
David Tadlock (Glider) 481-5227