TOSS WP



NEWSLETTER

APRIL 1991

T.O.S. S. P.O. BOX 1955

THOUSAND OAKS, CA. 91360

A.M.A. CHARTERED CLUB # 1493

EDITOR: CHUCK GRIS WOLD 16 4 6 LA JOLLA DR THOUSAND OAKS, CA. 91362

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Code-A-Phone: (805) 497-6367

Next Contest; June 9th 1991
C/D: Chuck Griswold
Place Redwood School

Next Meeting: June 26th 1991
Place: CAMERON
HOUSE
Map in this issue
7:30 p.m.

Newsletter



Newsletter -

LSF DAY

We held our first LSF Day on May 5th. The weather was fair, the lift was good, the turnout was poor. The idea was to get all those striving for LSF 1 and 2 ratings out to the field with their paperwork and to nail some of those requirements. Well, some of you missed your chance. There was 15 minute air, there was landing tape, and there were witnesses with pens. All you had to do was to show up and fly.

The end results were:

Thomas Akers - still needs a landing or two for LSF 1.

Mike Leal - completed two five minute flights (however, only one was legal) and most of the landing requirements for LSF 1.

Bob Swet - completes his remaining requirements for LSF 1.

WHAT'S NEW ?

Where were you all when we had the last meeting. Did you forget about it? Do we have to send you invitations ???? Don't forget this month meeting on the 29th at the Cameron House.

Just to entice you all in coming out to the May meeting, the NEW T.O.S.S. ID CARDS will be available for all those who attend.

We still have some XL and Medium T-Shirts available for \$10.

For all those who participated in the May TOSS contest at Paramount Ranch and are still picking those Foxtails out of their sneakers and socks, we have some good news. Edgar will reserve the Parking Lot for our next (JULY) contest. That should save each of us at least two hours in post-contest efforts and some tree climbing for those people who can't seem to find the landing approach.

Don't forget that some of our local dealer's offer club members a discount. Some will offer "Mail Order Prices + shipping" deals. So the next time you want to buy something, try Marty's or Blue As a personal note, Max. the last time I bought some S-133 servos down at Blue Max, he was the same price as Tower's 3 for sale, the best part was that you didn't have to buy three to get the sale price. P.S. Don't forget the Red Baron, they offer most items at discounted prices.

Bob Sweet

Hi sport fans, this is your old editor and chief bottle washer. Just thought I'd put in a word.

First, thanks Bob, you're doing a great job.

It's good to see that Ed Oldenburg is back flying. Better practice Ed, while you've been away everyone has improved a little.

The word is out; Fifty dollars worth of plastic PVC will not support it's own weight. Ask Mike Leal how you get a Wanderer out of a Big "O" Tree.

While trying to do a weight and balance on my Discus, the wheel rolled off of the scale and the put a hole in the bottom of my wing. I'll guarantee that Monokote is easier to repair than fiberglass over foam. The only reason I wanted a Weight and Balance done was to move the C/G back a little. They say about 20 % of MAC is a good place to start. Let's see,— you move it back until it starts to tuck then back off a little—right?

Newsletter

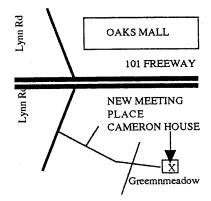


-Newsletter

I flew my first X/C on May Third. Guess where. Of all places— Taft. We flew a 105 mile out and back task in 193 minutes. Joe Wurts where are you? Spent all day looking down trying to find dust devils. Makes little difference wither it's a 1200 pound bird or an 11 pound model. When you hit it, the wing comes up and you get a boot in the pants. Quite an experience.

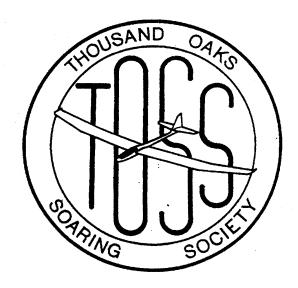
Later Church

This is the new meeting place. It's right across the freeway from the old meeting place. From Lynn Rd. turn left on Greenmeadow go to the end. You can't go any farther. Look for signs indicating the Canmeron House.



C/D's For the Year.

Jan (Sat)	- Ralph Morgan
Feb (Sun)	Edgar Weisman
Mar (Sat)	Mike Leal
Apr (Sun)	Myles Moran
May (Sat)	Bob Goldsmith
Jun (Sun)	Chuck Griswold
Jul (Sat)	Terry Koplan
Aug (Sun)	Bob Swet
Sept. TOSS	X COUNTRY
Oct (Sat)	Mike Regan
Nov (Sun)	Eric Hendrickson
Dec (Sat)	Rich Hartman



June 1991

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Sab. 1
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3B Fundraiser Beat the F3B team	*					
Pasadena Money	·	•		-		
will be donated to 16 the F3B team.	17	18	19	20	21	22
JICTOB team.			TOSS MEETING	20	23.	44
	·		1033 MEETING		* *	
22			2°27			
23	24	25	MEETING 26	27	28	29
SULA SC squared						
CC5						
<u>56</u> 30						

July 1991

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
Fun Fly						Toss contest Paramount Ranch
7	8	. 9	10	11	12	00rs 13
	·					
14	15	16	17	18	19	20
N. N.				•		
21	22	23	24	25	26	27
nh County ∷ds/ San Marcos			CAMERON HOUSE			
<u>2C</u> ² 28	29	30	TOSS Meeting MEETING 31			

T.O.S.S. Calendar of events. Please contact officers for car pool information



F3B FUNDRAISER
PASADENA SOARING SOCIETY--BROOKSIDE PARK

JUNE 16TH 1991

COME OUT AND BEAT THE TEAM

ALL THREE F3B TEAM MEMBERS WILL BE FLYING THIS CONTEST SO COME OUT-SUPPORT THE TEAM AND TRY TO BEST THEIR SCORES

OPEN TO EXPERT AND SPORTSMEN CLASSES

100% OF THE ENTRY FEES WILL BE DONATED TO THE TEAM

AMA SANCTIONED EVENT

ALL AMA 1991 RADIO RULES APPLY-- NOTE NO CH 12

TASKS: 4 ROUNDS THERMAL DURATION 7 MINUTES EACH ROUND STANDARD TAPE LANDINGS (25FT)

CLASSES: UNLIMITED AND 2-METER

TROPHIES: 1ST THRU 3RD UNLIMITED 1ST AND 2ND SPORTSMAN 1ST THRU 3RD 2-METER

ENTRY FEE: \$5.00 PER ENTRY

SIGNUP 8:00AM

FIRST FLIGHT 9:00AM

RAFFLE: AIRTRONICS LEDGEND AND MORE--ALL PRIZES ARE DONATED AND ALL THE MONEY RAISED WILL ALSO BE DONATED TO THE TEAM.

F3B GOODIES- HATS, SHIRTS, PINS, ETC WILL BE AVAILABLE ON THE FIELD

FOOD: THE BOY SCOUTS WILL BE SERVING HOT DOGS - HAMBURGERS, ETC. ALL DAY.

SUPPORT THE BEST US TEAM EVER

SOARING UNION OF LOS ANGELES



ANNOUNCES IT'S SC/2 R/C CONTEST SOARING

DATE: SUNDAY, JUNE 30, 1991, 9:00 A.M. PILOTS MEETING

SULA PRESS: ; C/D: DAVE RICHARDS (213) 634-7775 JIM BARNHART (213) 421-3583

LOCATION: CALIFORNIA STATE UNIVERSITY DOMINGUEZ HILLS, CARSON, CA.

THREE ROUNDS PRECISION DURATION. MUST FLY ONE OF EACH TYPE.

3 MIN. SCORED 700 / FLIGHT 5 MIN. SCORED 800 / FLIGHT 7 MIN. SCORED 900 / FLIGHT 300 LANDING POINTS 200 LANDING POINTS 100 LANDING POINTS

LANDINGS: 50 POOT DIAMETER CIRCLES SURFACE - DIRT AND SCRUB GRASS

WINCHES: 12 VOLT WINCHES WITH RETRIEVERS APPX. 900 FEET TO TURN AROUND

A.M.A. SANCTIONED \$ 6.00 ENTRY PEE

HOT DOGS & SODAS AVAILABLE ON THE FIELD. JUNE 30, 1991

SULA FIELD

1991 RADIO RULES APPLY

MAP ON BACK!!

PROM LOS ANOSLAS CETYL CENTER-110 SOUTH-Policy the Halbor Preventy (10) to the Areasa Preventy (20) seat to Andron Bird. Take Arabon Bird. south to Victoria Street, turn left. The entrance to campus as a right turn at Tancilli Avenue.

FROM SAN FERNANDO VELLEY-405
SOUTH or 101 EAST-bulow the San Diego
Freeway (405) south bowed Long Beach. Exit
on the Vermont Annue off-ramp. Turn left
(san) at the end of the off-ramp onto 1904
Street. Pollow 1904 Street east for approximately recombate to the campus (1904 Street)
becomes Vigoria Street, The campus entratice is right turn at Tampish Awnue, the
fart traffic appeal pass Avelon Blvd.

PROM SANTER MORPICA, IO EAST-Phobor the Santa Monical Freeway (10) each to the San Depo Freeway (405) south foward Long Beach. Exit at the Vermoon Awares of namp. Turn set (see all the end of the defaump only 180th Street. Follow 190th Street seas for approximately yet omises to be campus (190th Street becomes Victoria Street). The campus and the second of the campus and the second of the se

TROM EAN BERNARDING-10 WESTFollow the San Gabrell Presway (655) south Thise the Andasa Freeway (951) west foward Redondo Baech, Ext on Central Avenue and turn might onto Victoria Streat The campus estitates us a last turn at Tarnchiff Avenue, a traffic agenal.

California State University

Dominguez Hills

1000 East Victoria Street, Carson, CA 90747 • (213) 516-3300



TROM EMBERCHAS ONTH-Pollow the Santa And Freeway (5) north to the Ariseas Freeway (6) to set formed Redocate Seaton Exis on Cantral Assesse and turn right onto Victoria Street. The campus extrance is self turn at Tunchif Awsusa, a traffic signal.

PROM SAN DIEGO-403 NORTH-Police the San Diego Freewey (405) north treated Los Angeles to Anton Brid (north) of ramp the Angeles to Anton Brid. north (right) to Victoria Street. Turn right (east) onto Victoria Street. The entirace to campaul as right turn at the sext (raffic signal, Turncliff Avenue.

NORMALIZED

Max score MAY 3000
Highest T.Q.S.S. score MAY 2507

UNLIMITED CLASS NORMALIZED TO 1000

#	NAME	CLUB	TOTAL	JAN	FEB	MAR	APR	MAY
1	REGAN	TOSS	4572	1000	853	980	1000	738
2	WEISMAN	TOSS	4257	487	946	830	995	1000
3	GOLDSMITH	TOSS	3207	934	669			
4	SWET	TOSS	2820	0	726			
5	NORTHERN	TOSS	2584	0		1000		
6	MORAN	TOSS	1999					
7	MORGAN	TOSS	1980			926		
8	HARTMAN	TOSS	1855			932		0
9	OLDENBURG	TOSS	1158		546			612
10	BEN M.	PSS	959	0	959		0	0
111	MCNAMEE A.	TOSS	841		0	0	841	0
12	BURNS	PSS	721		721		0	0
13	BROOKS	PSS	649		649		·	0
114	KOPLAN	TOSS	573		0	0	0	
115	RATNER	PSS	461		461		0	0
16	LEAL M.	TOSS	393		185			
17	JIMENEZ	TOSS	68		0			
18	GRISWOLD	TOSS	0	0	0	0	0	0
19	HENDRICKSON	TOSS	0	0	0	0		
20	WURTS	TOSS	0	0	0	0		
121	VICKERS	TOSS	0	0	0	0		
22	MONAMEE	TOSS	0	0	0	0	0	
23	NIBLEY	TOSS	0	0	0	0		
24	KRAINOCK	SVSF	0					
25	WICHERT	TOSS	0	0				
26	MORTON	TOSS	0	1				
27	BUTKOVICK	PSS	0					
28	BUCKSPAN	MACS	0	0	0			
25	DEVLIN	MACS	0) 0	0	0		
	TURNER	?	0	0 0	0	0		
13	GRISANTI	TOSS	C	0	0	0) 0	0

2 METER CLASS NORMALIZED TO 1000

1	NAME	CLUB	TOTAL	JAN	FEB	MAR	APR	MAY
\Box	SWET	TOSS	3274	0	688	1000	585	
2	REGAN	TOSS	2882	0	0	934	1000	948
3	BEN M.	PSS	1000	0	1000	0	0	0
4	JIMENEZ	TOSS	962	0	520	0	368	73.9
5	LEAL	TOSS	788	0	564	224	0	0
6	RATNER	TOSS	734	0	734	0	0	0
7	MORAN	TOSS	717	0	0	0	717	0
8	AKERS	TOSS	419	0	0	0	0	419
9	GOLDSMITH	TOSS	331	0	0	331	0	0
10	VAN HAMERSVELT	TOSS	165	0	0	165	0	0
11	HENDRICKSON	TOSS	0	0	0	0	0	0
12	OLDENBURG	TOSS	0	0	0	0	0	0
13	WEISMAN	TOSS	0	0	0	0	0	0
14	MORGAN	TOSS	0	0	0	0	0	0
15	Mc NAMEE D.	TOSS	. 0	0	.0	0	0	0

SPORTSMAN CLASS NORMALIZED TO 1000

	NAME	CLUB	TOTAL	JAN	FEB	MAR	APR	MAY
1	AKERS	TOSS	2584	0	1000	1000	584	0
2	JIMENEZ	TOSS	2061	0	703	358	1000	0
3	LEAL	TOSS	1000	1000	0	0	0	0
4	LEWIS	TOSS	1000	0	0	0	0	1000
5	BUTKOVIC	PSS	902	0	0	0	902	0
6	BOCKWOLDT	TOSS	524	0	0	0	0	524
7	GOLDSMITH	TOSS	379	379	0	0	0	0
8	IMES	SCSA	368	368	0	0	0	0
9	VAN HAMERSVELT	TOSS	134	0	0	134		0
10	De ANGELIA	MACS	0	0	0	0	0	0
11	GRISANTI	TOSS	0	0	0	0	0	0
12	CANON	MACS	0	0	0	0	0	0
	JULIAN	MACS	0	0	0	0	0	0
114	KARP	MACS	0	0	0	0	0	0



BALSA SURFACE HARDENING

Are you tired of your wing trailing edges being crushed when fastening with rubber bands? (That is, for you who still use 'em.) Try pricking the trailing edge (numerous times with a pin) in the fastening area. Now run thin Hot Stuff over the area. The balsa will soon become rock hard. Try the same method where you install control horns on balsa surfaces like elevator and rudder mounting points. It's a quick and easy way to harden up mounting surfaces. Thanks to Cliff Hanchett of Dothan, Alabama.

45 LARSEN, URLA 46 HALL, DAVID 47 SMITH, STEVE 48 CHASTELER, TOM 49 PETTEN, MICHAEL 50 JENKINS, HARVEY 51 AKERS, THOMAS 52 JUY, BRYAN 53 MCCGLGAN, DON 54 HATCH, JOEY 55 LONG, DICK		31 RAINEK, PIKE 32 SAGE, FRED 33 BUTDVICH, DAVID 34 FARSONS, JIM 35 CRANFORD, KARL 35 CLERX, BEN 37 RIITER, GEORGE 38 GATES, MATTE;		13 SANDROWI, HUGO 13 SANDROWI, HUGO 14 RITHER, CHRIS 15 HENDRY, STEVE 16 GUSTIN, RONALD 17 LEVOE, PARK 17 LEVOE, PARK 19 MEISMAN, EDGAR 20 MILLS, ARCHIE 20 MILLS, ARCHIE 20 MILLS, ARCHIE 20 MILLS, ARCHIE 21 SPITZER, GEORGE 24 GERMANE, BRIAN	1 ATWELL. BLAIR 2 EDBERG, DON 3 MATSUMOTO, BEN 4 MARTIN, TONY 5 RODRIGUEZ, JOE 6 LACKEY, ROGER 7 CHASTELER, FRANK 8 TILLMAN, NORM 9 REAGAN, MIKE 10 BLEDSDE, RICH 11 SHELBY, RICH	SOUTHERN COREST I
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STATE OF CALIFORNIA
FRANCHISE TAX BOARD
P.O. BOX 1288
RANCHO CORDOVA, CA. 95741-1286
May 15, 1991

July Car

In reply refer to 340:G :RB

THOUSAND OAKS SOARING SOCIETY EDGAR WEISMAN P.O. BOX 3921 THOUSAND OAKS CA 9:360

Purpose : SOCIAL & RECREATIONAL COde Section : 23701g

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Form of Organization : Association Accounting Period Ending:

Organization Number : 9764812

You are exempt from state franchise or income tax under the section of the Revenue and Taxation Code indicated above.

This decision is based on information you submitted and assumes that your present operations continue unchanged or conform to those proposed in your application. Any change in operation, character, or purpose of the organization must be reported immediately to this office so that we may determine the effect on your exempt status. Any change of name or address must also be reported.

In the event of a change in relevant statutory, administrative, judicial case law, a change in federal interpretation of federal law in cases where our opinion is based upon such an interpretation, or a change in the material facts or circumstances relating to your application upon which this opinion is based, this opinion may no longer be applicable. It is your responsibility to be aware of these changes should they occur. This paragraph constitues written advice, other than a chief counsel ruling, within the meaning of Revenue and Taxation Code Section 21012(a)(2).

You may be required to file Form 199 (Exempt Organization Annual Information Return) on or before the 15th day of the 5th month (4 1/2 months) after the close of your accounting period. Please see annual instructions with forms for requirements.

You are not required to file state franchise or income tax returns

unless you have income subject to the unrelated business income tax under Section 23731 of the Code. In this event, you are required to file Form 109 (Exempt Organization Business Income Tax Return) by the 15th day of the 5th month (4 1/2 months) after the close of your annual accounting period.

Please note that an exemption from federal income or other taxes and other state taxes requires separate applications.

A SCOTT EXEMPT ORGANIZATION UNIT CORPORATION AUDIT SECTION Telephone (916) 369-4171

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around, this is a pretty intriguing construction technology."

Pete continues in another letter:

- "I just recalled that I promised you some more discussion on glues, so here it is.
- "CYANO-ACRYLATES: there are C/A's and there are C/A's. You may hear that all C/A's are alike, a just buy on the basis of price. Don't believe that. If you do, then build your next airplane with the superglue available at the K-Mart checkout line and see what happens.
- "I ran across an article once in Chemical Engineering News (wished I had saved it) which points out that C/A's are particularly easy to synthesize for specialized applications, i.e. any competer industry source can tailor the viscosity, range of activation parameters, and other characteristic to suit the particular requirements at hand. So I have to believe that the C/A's available to today have ben developed to fit our specialized bonding applications, and also that there may we be differences between brand names.
- "I find that for my personal uses I tend to use thin and gap-filling Hot Stuff predominantly, wit the extra-thick Hot Stuff running a distant third. Since my usage runs at quite high levels, use 2 oz. bottles rather than the smaller sizes. I have used and like Jet and Super Jet, but have come back to Hot Stuff due to, mainly, its consistent bonds.
- I also use quite a bit of accelerator to precondition wide areas, such as lamination of doublers etc. As I mentioned earlier, I maintain that aliphatics are the best choice for making up built up tail surfaces where there is a lot of capillary action on the strip wood--C/A's joints tend thave brittle fractures at the LE and TE of the joint, whereas an aliphatic glue provides a good combination of penetration and flexibility.
- "I find that Hot Stuff has a habit of piling up and drying, glassy hard, on the bottle tip. After a while, the encrusted C/A is so thick and hard that it becomes impossible to seal the bottle of the clear out the clogged aperture.
- "Here is my solution which works for me: I keep a bottle of Vaseline on the workbench as periodically dab Vaseline on the bottle. This allows me to easily scrape off dried C/A before builds up to intolerable levels. And this also provides a vapor seal to prevent moisture fragetting into the bottle. Otherwise, the adhesive may go hard in the bottle which is a reaggravation. The other C/A's that I have used don't pile up on the bottle tip, or at least n quite as hard, as Hot Stuff, but I don't consider this a serious drawback to using Hot Stuff, on a minor annoyance—it becomes a major annoyance if nothing is done and the entire bottle goes ha on you.
- "As afar as using C/A vs any other glue, I tend to use aliphatic for any end grain applicatio (ribs, truss ribs, polyhedral joints) where previously mentioned capillary action may be a proble: Aliphatic is also good for putting in turbulator spars since it fills slight gaps and gives y time to adjust the spar alignment. For most other joints, thin or gap-filling Hot Stuff do everything else.
- "C/A is particularly handy for doing cap strips. I line up the cap strips on the rib (top bottom) and hit it with accelerator, and it's done (make sure that it's straight). This is su better than pinning each cap strip in place and using aliphatic! C/A is also handy for attachi the top cap strip where it joins the trailing edge—tolerances are usually critical here if forward edge dimension of the TE stock is slightly greater than the sum of the rib hei thickness of the cap. I hold the cap strip so that it makes a smooth transition to the resulting white byproduct fills the little gap instantly.

"As we may have discussed earlier, I don't try to use C/A for doing wing sheeting, preferring iron on the sheeting after precoating (and allowing to dry) aliphatic glue on the rib-sheet conta areas. If the sheeting butt joins to a spar or LE, I use aliphatic or C/A in the conventional wa Try this sometime, it has always worked well for me. That's it for now..."

THANKS - CAPITOL AREA SORTING ASSOCIATION

I once asked about adhesives and received some advise. Pete Young has written with his ideac and I have extracted from two of his letters, the first also containing a bit of interesting historiand the second being specific recommendations. Pete writes in his first letter:

"In one of your recent columns, you asked for some feedback on recommended usages for adhesives I would like to offer up some of my thoughts for your review. Ready or not, here it comes...

"BACKGROUND: When I was modelling as a youngster, Ambroid cement was the only adhesive used. I college during the mid-60's, I met some people who liked to use Elmer's white glue, but it wa difficult to sand (still is) and two-part epoxies were not very common or well suited for our uses when I was flying free flight in the early 1970's at Taft, California, I first met Bob and Bil Hunter who were flying AMA free flight with a vengeance, fielding Satellites of every size fro .049 to .65. One year they came out with Satellites built entirely with a new glue calle cyanoacrylate. Aside from the fact that no one new how to spell it or knew what it was made of this adhesive created an immediate sensation in the free flight community. Although Lee Hines ha experimented with Eastman 910 a few years prior for fixing tailbooms on hand launch gliders; th Hunters were the first to build entire airframes with A/A. The weight savings on elaborate AM gas free flights were spectacular. 1/2A Satellites were weighing in at 4½ to 5 ounces, severa ounces less than when built with conventional adhesives. Part of the weight savings came from us of extremely thin mylar coverings that the Hunters were also marketing, 1/4 mil on up to 2 mill (Super Monokote is about 2 mils, I believe).

"The Hunters created the corporation "Satellite City" to market "this" Hot Stuff, mylar and thei Satellite kits and were quite a successful cottage industry in the SoCal area. Then about 197 Radio Control Modeler Magazine introduced Hot Stuff to the general modelling public and the hobb adhesive industry hasn't been the same since. Developments followed in quick succession: mediu and thick viscosity C/A's, accelerators, special purpose C/A's, debonder, etc. Does this implicant I think C/A's are the best adhesive for every gluing chore that I have? Nope, I try to us the best adhesive for the particular task, regardless of type. So, with that lengthy preamble here are some of my thoughts/opinions on the general subject of adhesives:

"CELLULOSE ADHESIVES (Ambroid, Testor's, Duco, et al): As mentioned earlier, these glues were use a lot (once upon a time) but not too much these days. The primary disadvantages are its shrinkage odor, a requirement for air drying, and incompatibility with some finishing materials. There are some specialized uses: indoor modelers use Ambroid thinned 50:1 for building their indoor aircraft but that is probably not of interest to you. I believe that green Testor's is excellent for lightweight, sandable joints when edge-joining sheets of balsa sheet (watch the shrinkage factor use minimum amounts of glue and carefully wipe glue oozing from the seam). There is one application that I do save cellulose cement for: a light coat smeared into balsa makes an excellent base for attaching servo tape—that's about all that I use cellulose glue for these days.

"TWO-PART EPOXIES: In general, the "faster" the epoxy, the "glassier" the finished bond. I lik to use Hobbypoxy II for sheeting foam cores. On this subject, Al Doig devoted several columns i RCM about some comparisons of epoxy vs tape for sheeting Windsongs—his final verdict was the epoxy was just as light as transfer adhesive tape, when properly applied, and was definitely mor "user friendly." In my experience, the big plus for Hobbypoxy II for sheeting is that there i time to adjust the sheeting on the cores—something that you don't get with contact cement, tape or UFO C/A. Ben Cierx happened to mention the benefits of spraying a thin coat of clear dope c lacquer on the balsa sheet before applying epoxy—seals the wood and inhibits the epoxy from soaking into the wood—sounds like a good idea and definitely worth trying.

"Frankly, the best glider construction applications for two-part epoxies are filling the cavitic around wing joiner tubes and in mixing the epoxy with micro-balloons for added hardness. Other than that (except for sheeting foam cores) I find that my use of two-part epoxies has dropped dramatically. Epoxy is touted as being good for joining wing polyhedral joints, but I find the aliphatics are perfectly satisfactory when the wing joints are properly fitted—epoxies should not be used to compensate for improperly fitted poly joints. Just in case I forget to mention it late on, it is definitely helpful to "perforate" the wing LE, TE and spar end grain with a gin increase the capillary action into these vital junctions. An interesting technical area to exploit the use of epoxies for building up glass coated foam cores, a la Frank Weston's Magic. I can