

THE CONNECTOR

The Official Newsletter of the Aeroguidance Society, Inc.

Endicott, New York

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Academy of Model Aeronautics
Chartered Club

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DECEMBER 1985

Calendar of Events

<u>Date</u>	<u>Time</u>	<u>Place</u>	<u>Event</u>
12-10-85	6:30	NYSEG	Ground School
	7:30	"	AGS Meeting-Business
	8:00	"	AGS Meeting-Show & Tell
	8:50	"	AGS Meeting-Program: Electric
	10:00	Villa	Social Hour Flight
12-16-85	7:30		AGS Board Meeting
12-17-85	7:00	Noll Residence	Hanger Session (RSVP)
12-20-85	6:30	Owego Treadway	AGS Christmas Party-Cocktails
	7:30	" "	" " " -Dinner (RSVP)
1-4-86	All Day	Oakdale Mall	AGS Mall Show
1-5-86	" "	" "	" " "
1-14-86	6:30	NYSEG	Ground School
	7:30	"	Monthly Meeting
	8:00	"	Show & Tell
	8:50	"	Program to be named Later
	10:00	Villa	Social Hour
1-20-86	7:30		AGS Board Meeting

THE PREZ SEZ

The Holiday season is rapidly approaching. This brings to mind a couple of items for AGS members' agenda. First, there is the AGS Christmas party on Friday Dec. 20th to get in the spirit. This will be a dinner at the Owego Treadway which is ideal for bringing guests (Wife, Date, Friend, Etc.). The past two Christmas parties were enjoyable and low key. This one promises to be more of the same. Remember to get your reservations and check to Dick Fish by the December meeting.

The second item is to get your wish list to your local SANTA so that there might be something nice for the modeler under the tree. Remember the first item on the agenda might affect the second.

The December Meeting will be the first normal meeting (No Auction) of this fiscal year. We are intending to make these meetings informative and enjoyable. Our program chairman-Ralph Jackson-is actively lining up interesting programs. He only agreed to this job after I guaranteed an 8:50 start. This will happen.

THE PREZ SEZ (contd.)

I personally always liked the "Show & Tell" part of the meeting because of the variety of information tid-bits that were brought out as well as seeing the results of modelers' efforts. During the past year, "Show & Tell" has had reduced input. I hope that participation will increase this year. We will have at least 40 minutes available plus intermission to swap experiences. Bring in your gadgets, gimmicks, finished and unfinished projects; and experiences both good and bad. We are much more interested to see and hear about it than you may think.

If it appears that the the business part of the meeting will be limited, you are observant. The meetings will start at 7:30 sharp, after Bob Noll's Ground school-Clinic for builders, which starts at 6:30.

There of course will be more time for shop talk at the Villa as usual. This is enough rambling for now. The Prez has to work on his list for Santa.

MERRY CHRISTMAS AND A FLYING NEW YEAR!!

Jerry Skreckoski

HELICOPTERS AND OTHER THINGS -Bill Underkofler

Notes on Nicads: Some recent observations have pointed out that not all Nicads are created equal. There appears to be different characteristics between brands including:

1. Loss of Capacity with Age
2. Self discharge rate
3. Life to cell failure

SR packs have been touted and advertised as super batteries. SR's principal claim to fame is more capacity per size and weight 900 mah in a package only slightly larger than the typical 500 mah pcell. However, this high capacity does not seem to be maintained with aging. My 2 year old SR packs are down to 600 mah (67% of initial capacity). My SR packs also seem to have a high self-discharge rate. On storing two weeks after a full charge, a cycle test showed only 200 mah retained charge.

I have used GE batteries for many years, but have been unhappy with lots purchased in the past few years. These also show fast decline in capacity with aging-down to 70% in two years. They also start showing catastrophic cell failure after 2 years.

I only have one year's experience with SANYO cells, but so far I'm impressed. Mine show nearly 100% capacity after a year. Self discharge seems to be slow-after 2 weeks storage they retain 90% of capacity, which means that you can fly with confidence even if you didn't charge the night before. Electric flyers and electric vehicle people seem to prefer SANYO cells for better voltage characteristics under heavy load.

Helicopters: The long advertised Hiroba Shuttle (imported by GMP) is finally available. It comes completely assembled, needing only your radio installation. The Shuttle is a small helicopter (28 size) and has a very attractive price, below anything comparable on the market.

The Shuttle should be a good first trainer for a beginner, but it also has all the expert features including collective pitch, Bell-Hiller steering, autorotation, and individually damped blades.

Looking at the model on display at GJ's, I noticed several features: The tail drive uses a toothed belt which is good since it eliminates the usual vulnerable tail drive track on the main gear. Starting is by belt, rather than the more convenient cone. Many conventionally metal parts are plastic moldings, including frame,

Helicopters (contd.)

landing gear, swash plate, and rotor head. Whether these will be more or less rugged than metal remains to be seen, but the use of plastic is surely the reason for the low price.

Larry Jolly reviewing the Shuttle in "Model Aviation" was impressed with the steady hover, good forward flight characteristics and aerobatic ability.

Let's hope that somebody buys one locally so we can get a first hand report.

FOR SALE:

- * Radio Shack Color Computer with expanded Basic, 32K Memory, Graphics and Printer Adapter.
- * Radio Shack Color Graphics Printer
- * "Gorilla Banana" Dot-Matrix Printer
- * Diskette Drive for Color Computer
- * "Gorilla" Mono Display
- * Color Computer Software Games

Excellent Christmas Gift-will sell as complete system for \$650 or will consider selling individual accessories.

*CALL: 625-3268 Evenings Jack Hostetler

- * Message Minder 1200-Twin Cassette Remote Control Telephone Answering System
\$90 like new Still in the Box

*CALL: 625-3257 Anytime (Leave Message)

- *Cricket Helicopter
Recently overhauled, excellent condition and Appearance. Complete with OSFSR2811 engine.
Less Radio. Some spare parts included. \$90.

*CALL: 785-3643 Bill Underkofler

Auction Update by Terry Terrenoire

Thirty three anxious buyers & sellers registered to trade goods & \$ at the 1985 AGS Auction at the N.Y.S.E.G. bldg.. Twenty two people participated in the buying & selling by exchanging \$367.75 in 35 transactions. there were several items that did not sell under the gavel but were sold in after-auction negotiations.



SEASON'S
GREETINGS



"COME ONE, COME ALL"
"TIS THAT TIME AGAIN FOR THE A.G.S. ANNUAL CHRISTMAS DINNER"

-----CUT-----

Reserve Friday December 20th for a nice night out at the Owego
Treadway Inn. No hassle and no gifts to bring, just a good time.

6:30-7:30 Cocktail Hour
7:30 Dinner

Choice of the Following:

- () U.S. Choice Prime Rib of Beef (10-12 oz.) \$14.00
- () Seafood Newburg w/two patty shells (10 oz.) \$11.00

Please indicate number of dinners to be reserved in space above
and send this sheet with a check made out to the AGS to:

Dick Fish
RD. #1 Box 276
Newark Valley, NY 13811

Please get your reservations in as early as possible since we
have to give the Treadway an accurate figure. You may also
bring this sheet to the regular December 10th meeting which will
be the deadline for all reservations.



THE ACTION AREA - Bob Noll

FIRST HANGER SESSION A SUCCESS - My workshop was buzzing on Nov. 21 when a very enthusiastic gang of pattern practitioners came with their arms loaded with their latest projects. The evening consisted of reviewing several kits (XLT, Calypso, Tipo 750), a completed and flown Atlanta and cutting of a foam wing for a Dualist. We discussed lightweight building techniques and installation ideas. It was agreed that we should all keep track of the weight additions as we build our new planes so that we can all benefit from each others experiences. We plan to keep a master data bank with weight information collected using gram scales. Jim McKeown volunteered to put the data into his home computer.

So if your interested in building and flying pattern aircraft join us at the next hanger session. Everyone expressed the desire to meet once a month and so the next session will be as follows;

Tuesday December 17
7 PM to 10 PM
2317 Acorn Dr, Vestal
Phone 754-5279

Please call me if you will be attending so I can be sure to have enough fuel on hand.

FOR WIVES ONLY - It's that time of the year again when all of you are trying to think of that special gift to get your husband. Well I'm not going to give you any help with the big gifts. If your hubby is anything like me he has already given you clues with infinite detail regarding the new engine or plane that he would love to discover under the tree. However here is a list of stocking stuffers that every modeler would appreciate. Its these little things that make up a well stocked workshop and will keep the man of the house home evenings and reduce those unplanned trips to GJ's. and what's more, you can find all these goodies at your one stop hobby emporium, GJ's in Vestal.

- Hot Stuff adhesive
- Epoxy adhesive (fast & slow cure)
- Epoxy mixing cups
- Titebond adhesive
- Blind nuts - 4x40 & 6x32
- Socket head screws - 4x40 1/2" and 3/4" long
6x32 3/4" and 1" long
- + Masking tape
- Wheel collars - 5/32"
- Midwest ruler and balsa gauge
- Xacto knife blades
- Rods and clevises
- Building clamps
- T Pins

Hope this helps you be a good Mrs. Claus.

HAVE AN ENJOYABLE HOLIDAY SEASON

Now that the winter is setting in on us, there is plenty of time to conduct a few experiments as we work on our building projects. I have been working on my Hanson Tiporare. To date, the wings and tailplane are sheeted and I'm pleased with the results. The wings and horizontal stabilizer are foam and are sheeted with balsa.

Over the years, I have used this type of flying surface using various covering techniques which range from simply covering the foam with a light weight material such as Econokote or Solar film to using numerous adhesives to attach the balsa sheeting to the foam. All of which require that the sheeting be attached to the foam fairly quickly after the application of the adhesive to attain a good bond. Hanson strongly recommends the use of long cure epoxy for this purpose. His foam cores are very well cut using some type of machine which produces a very good finish. Prior to applying the sheeting using this method, the core should be lightly sanded with fine sandpaper, vacuuming the core to remove all dust. The sheeting should be glued and sanded to provide one large sheet for each side of the core. Hanson recommends the use of cyanoacrylate glue for the sheeting. I felt that this produces hard spots in the sheeting and opted to attach the edges using Elmers white glue. This worked well and gave me a nice homogeneous covering of reasonably uniform thickness. To spread the epoxy over the sheeting, having talked to Bob Noll at length about this technique, I used a piece of eighth inch balsa. The epoxy was spread over the sheeting until no further amount could be "scraped off" with the balsa squeeze. The sheeting was then placed in the shucks which were placed on a flat bench sandwiching the bottom shuck and sheeting, the core, the top sheeting and shuck followed by a piece of particle board. I then weighted this sandwich down with sixteen, one gallon plastic jugs filled with water (about 128# total weight).

During this work, I took the time to weigh the components (each core and its respective sheeting) before and after attaching these parts together. From this effort, I found that there was only about an ounce gain in weight (I measured 27 grams) per wing panel. I figured this out based on the total area and found that it amounts to about 30 milligrams per square inch of attached area. I have no feel for the gain seen using other methods but do not feel that any are capable of approaching this figure! If anyone has information like this on other methods, please let me know because I'm beginning to "keep book" on weights ect.

The first of December is rapidly approaching and as I indicated last month, I will be at Owego with my glider. I'm planning on the first Sunday of each month for gliders at Owego but January will conflict with the Oakdale Mall Show so in January it must be the 12th. Paul Niles, of the Tri-County Modelers, called and asked about these dates and indicated to me that they are planning to have a similar meet each month on the third Sunday at the Bainbridge Regatta Grounds. We are cordially invited to join them at this meet. I most certainly plan to myself.

Enough for this month. Hoping Santa is good to us all, have a Joyous Holiday Season.....

Jim McKeown

WISHING YOU ALL
A PROSPEROUS
AND ACTIVE --

New
Year

1986

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Membership

Jerry Skreckoski
President



NEXT MEETING NIGHT, TUESDAY - DEC 10 1985 - NYSEG - 7:30PM!

POSTMASTER: Dated Material -
Prompt delivery requested ..



AGS
Aero Guidance Society, Inc.
Post Office Box 39
Vestal, New York 13850-0039



Merry Christmas

