

The Beacon

The newsletter of Chapter 54 Lake Elmo, Minn.

APRIL 2006

APRIL 2006 This month's program Monday April 10th, 2006

- Social Hour at 7 p.m.
- MEETING AT 7:30 P.M. CHAPTER HOUSE, ENTRANCE B, LAKE ELMO AIRPORT
- At the next Chapter Meeting we will be presenting information from builders and pilots of airplanes with alternative engines. Rotax 912 series, Jabiru, Volkswagen and Subbaru engines will be presented.

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MARCH 13 MEETING PROGRAM NOTES BY: BETTIE SEITZER

The program for this meeting was a panel discussion on building airplanes. The panel was comprised of 4 members: Tom Gibbons, currently building a Pulsar (a composite plane), Chip Andrews who has built a Sky Ranger (Tube and Fabric), Tom Marson (wood and fabric) and Paul Hove who has built an RV (sheet metal). Dale Seitzer moderated the discussion, asking each builder to answer each question. The questions and answers are provided below.

1. What types of tools were required for you to complete the project?

Paul: riveting tools, there are some specialty tools that are required such as Clecos, there are others that are nice to have because they will make the work easier. It is useful to talk with other builders about the tools that they found useful, and it is often possible to buy used tools or borrow tools. The tool kits that Van's offers are very complete, a builder can upgrade, but that isn't necessary

Tom G: Composite plane building requires a lot of sandpaper and cutting tools, but composite planes do not require a lot of specialized tools. A heated shop is critical for proper curing.

Chip: Specialized tools are not necessary; typical shop tools are used but a builder will need 2X4 lumber, sawhorses, and a heat gun to shrink fabric.

Tom M.: Woodworking tools, most of which would be available at any Home Depot or Menard's. The fabric covering does require tools and paints specific to the type of fabric being used. The metal fittings require some welding. A palm sander and disk sander will get heavy use. There is a lot of gluing. A small

(Continued on page 6)

PRESIDENT'S COLUMN BY PAUL HOVE

On Saturday (March 26th) Lake Elmo Airport pilot Ray Lundgren

had the misfortune of an engine failure shortly after takeoff and made an emergency wheels up landing off the end of runway 34 in the corn field. Ray's Beach Bonanza had just had major engine work and was on its first flight. Ray made a very smooth landing and was able to keep the wings level minimizing wing damage. The picture below shows us raising the plane and dropping the landing gear.

The plane was set down on sheets of 3/4" plywood which supported the plane as we slowly



the hanger at 7:30pm.

people ages 8-17 in more than 90 countries process and has been a catalyst in getting the around the world with free plane rides to intro- program moving along. duce them to the world of aviation. An average of 250 Young Eagles is added to the World's Here is a link to EAA's April Calendar Largest Logbook every day. The March issue of http://www.eaa.org/desktop_wallpaper.html Sport Aviation, the national EAA magazine honored the Young Eagles pilots that have donated See you at the April 13th chapter meeting!! their time and aircraft to fly at least 10 Young Eagles during 2005. Our chapter was well represented with 5 of our members listed in print.



The qualifying members were:

Dave Becker (Chapter Coordinator) Dennis Hoffman Alan Kupferschmidt Paul Liedl Dale Rupp (1250+ rides given)

Several of our members have special issuance medical certifications. They have long complained about the cost and difficulty associated with obtaining and renewing a special issuance medical. There is hope in sight as the FAA is moved it across the field by moving the sheets now working on a procedure to alleviate the forward one at a time and then rolling the plane backlog. Some of the steps are immediate such forward. This process was slow and tedious. as, sending the backlog requests to the Re-We started at 8:30am and had the plane back in gional Flight Surgeons for review and action. Other steps will require changing the FARs to relax the requirements of a 3rd class medical. The Young Eagles program provides young The EAA has been actively involved with this

EAA CHAPTER 54 TREASURER'S REPORT BY PAUL RANKIN

March 2006 Financial Summary

Cash on hand	\$ 40.00
Checking Account	\$ "5,875.44"
Investments	\$ "6,364.86"
Total	\$ "12,280.30"

Income

Donations	\$ 25.00
Membership Renewals	\$ 250.00
New Members	\$ 50.00
Calendar Sales	\$ 10.00
Ground School Fees	\$ 100.00
Total	\$ 435.00

Expenses

Newsletter	\$ 41.84
Membership Postage	\$ 39.00
Utilities - Gas	\$ 186.93
Utilities - Electricity	\$ 26.30
Total	\$ 294.07

Net Cash Flow \$ 140.93



Chapter 54 Directory

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Chapter member meet on the second Monday of every month at the Chapter House, Entrance B at Lake Elmo Airport (21D). The House is at the base of the airport beacon. The newsletter is printed on the first Monday of every month. Parts of the newsletter may be reprinted with appropriate credit.

21D RCO 118.625 21D Unicom: 122.8 TPA: 1932' Runways: 4-22 (2497' x 75') 14-32 (2850' x 75') CHAIRMAN'S REPORTS: YOUNG EAGLES BY: DAVE BECKER

This Saturday, 8 April, is our first regular sched- Pilots: Dennis Hoffman, Al Kupherschmidt, uled Young Eagles Day. The weather is looking Paul Liedl, Dan Bergstrom, Bill Schanks. scheduled. We may be getting many more kids Fiebiger. who have not contacted us, however, we just don't know. In the future, we will request people Leif Erickson, our publicity chairman, has done we can better schedule pilots and ground sup- cal newspapers and other media. pect.

If you are interested in being available to either Saturday. I am not sure if this is enough or not.

good and we have 5 confirmed young eagles Ground Support: Dale Rupp, Paul Hove, Dave

to contact us via our web site to indicate the a very good job of getting articles and advertisnumber of kids planning to take flights. Then ing about our Young Eagles program in the loport. So, this first Young Eagles Day will be a and Hugh Sontag have been working to update bit of an uncertainty as to how many kids to ex- the Young Eagle section of our web site and giving it a higher profile. I would like to thank all of them for their great work.

fly or help on the ground with registration, The Young Eagle information area in the club ground control, etc, please let me know. The house has all new and updated Pilot Folders following people have committed to helping this and other Young Eagle information for your use.

> I look forward to a SAFE and enjoyable Young Eagles Program this year.

MAC COMMISSION 20 MAR 2006 BY: VIVIAN STARR

the morning of March 20, rather than earlier in definition. Staff suggested to the Commissionthe month.

ing the dike for STP. The St. Paul city planning missioners approved this modification. commission has recommended proceeding with the project. Opponents of the dike have ap- Outside of the meetings, MAC legal staff conpealed to the City Council. After a public hear-firmed to me that Crossroads FBO developing, the City council will make a recommenda- ment has run into difficulties. A private hangar tion to the Mayor as to whether or not to pro-owner and the Crossroads owner have both ceed with the dike.

MAC held a pre-proposal meeting in February

for the ANE northwest building area FBO. Although well attended, participants were unwilling to continue with the process since the nego-March Committee meetings were held during tiation process with the LLC (developer) lacked ers that the agreement with Anoka County should be modified to allow the LLC to directly During the afternoon full Commission meeting, solicit and negotiate with interested parties. The there were two topics of interest to Relievers. selected FBO operator would still be subject to St. Paul is moving through their process regard- approval by MAC and the County. The Com-

filed law suits against MAC.

EAA CHAPTER 54 MARCH 13 MEETING MINUTES BY: BETTIE SEITZER

welcomed one visitor, Tom H., who is a student gle flights will be offered every second Saturday attending our current ground school.

proved as published.

2XL shirts available for purchase. A new order a few boy scouts wanting to have rides so an will be considered, it was generally agreed that extra day may be scheduled to accommodate having all members wear logo shirts at the pan-those groups. cake breakfast is a good idea.

weekend that Chapter 54 goes.

whole sheet, not just the bottom portion. Also, what funding is available from the club. make sure to include the member's name on the check so that the payment can be properly Newsletter: Tom Gibbon will be taking this over credited.

Banquet planning has begun, Bettie Seitzer will not able to attend meetings. be the banquet chair, invitations will go out in April.

Notice: Traffic patterns in the metro area have brought visitors to our meetings. changed resulting in significantly more traffic over Lake Elmo. Anyone who is aware of jet The meeting was adjourned. traffic at unsafe levels over Lake Elmo should report the time, approximate altitude, and route of flight.

Chairmen Reports:

Education: Art is currently planning hangar tours for Farnsworth elementary school children. This is the aerospace magnet school. The plan is to have several hangars involved so that the kids can be broken up into small groups and travel among several different hangars.

The meeting was called to order at 7:30. We Young Eagles: Beginning in April, Young Eaof the month. The flights will be offered in the morning, and a sign will be posted notifying The Treasurer's report was reviewed and ap-people of the opportunity. Pilots willing to offer rides can come to the clubhouse, ground help is also needed to help with the paperwork and There are still a few Chapter 54 logo hats and safety around the planes. There are also quite

OshKosh Air Academy: One candidate has The annual OshKosh work party is being tenta- been identified. Any students interested in the tively planned for May 6th and 7th, this is the first Academy should apply, including payment of work weekend and has traditionally been the the application fee. A club sponsor can bring their name forward so that the board can allocate funding for the students who have been A reminder to members when you send in your accepted. This should be completed as soon membership renewal form, please send in the as possible so that we can let the families know

> with transition help from lan. The newsletter is especially important for those members who are

> Publicity: Pancake breakfast planning has be-Notifications in the local paper have aun!

Program Notes (Continued from page 1) pneumatic nail gun would be very useful.

2. How complete was the kit?

builder buys and completes one section at a the techniques that they used. time. The first kit (tail and empennage) require the most work; some of the parts have to be 3. fabricated by the builder. Each kit is complete as a unit, but other parts do need to be bought separately (for example the engine, firewall for- Paul: The tail was easiest; it is small enough to much longer to complete their planes.

gluing, and assembling. The finishing is the cult. toughest, filling pinholes being a demanding task. The typical builder takes 3 - 5 years to Tom G: Assembly was easy, the builder can do already.

boxes, the builder must assemble the tubes and this problem. parts, the plane is easy to build. The engine is not part of the kit, but a separate "Firewall For- Chip: Assembly of the cage and tail was very builder has specified when they order the plane. was getting the right bend and fit for the door. Cowlings are customized to the engine. The kit was very complete.

cause he enjoys working with wood; he had if the builder works without a partner. built an RV6 but did not enjoy that as much as working with wood. The Fisher Kit was quite 4. complete, but did not include the engine or instruments. Aircraft Spruce is the best to use, but it is important to understand that wood can Paul: The plane could be built in a single car

The construction should take about 1200 -1500 hours. The cost of a wood kit tends to be lower than other types of kits. Quick build kits are available, and can speed up the time to complete a plane. Another unexpected advan-Paul: RV kits are very complete. The plane is tage of getting a guick build is the opportunity to actually broken into multiple kits so that a see how the factory completed certain parts and

What were the easiest and most difficult parts of your project?

Van's aircraft advertises 2,000 handle, the tools reach easily, the riveting is rehours to build, but more builders report taking petitive. The canopy was the hardest due to the cutting, fitting and trimming that are required. The raw canopy stock is \$1200 so you don't Tom G: Composite kits are like a large plastic want to make a mistake and have to buy a new model. (Pulsar kits are no longer available, but one. The builder has to choose how it will open there are other composite planes on the mar- (lift up or slide back) and cut the canopy approket.) Composite kits typically require cutting, priately. Fiberglassing the shroud was also diffi-

finish the plane, Tom has close to 2800 hours a lot of sanding and adjusting. The finishing process is the most difficult – filling the pinholes that result from the curing process requires a lot Chip: It takes about 150 - 400 to complete as- of filling and sanding. New products are being sembly of a Sky Ranger. The kit comes in 5 developed as manufacturers try to overcome

ward" kit is available from the company. The easy - they bolt together. The Dacron sleeve cowling comes cut for the engine that the covering was also very easy. The hardest part

Tom M: The builder learns steps as they go so each technique is hard at first and then easy. Tom M: Tom built a wood and fabric plane be- The hardest part was the rib stitching especially

How much space was needed to build the plane?

vary a lot. The builder must learn about wood in garage up to hanging the wings (they have a 25' order to evaluate each piece to know whether it span); but the wings don't need to be put on unfits the criteria for use in an airplane. Most kits til very close to the end of the construction procuse something cheaper than aircraft spruce. ess. Paul started his plane in the basement of his house.

Tom G: He is currently building his plane in his they asked to have the spinner removed so that basement, it went in very easily since the pieces they could see the safety wire for the prop. were quite light. He has tried rolling it out and They also required that the data plate be riveted that went well, he has also started the engine. on rather than screwed on. Building could be done in a garage if it was heated since temperature control is critical to 6. the curing process.

sembly was done in a hanger.

trailer house. The glue (T88) is not temperature have been updated. sensitive - it can be worked as low as 45 desomewhat rough joint.

Were there any difficulties in getting added a lot to the experience. 5. the Air Worthiness Certificate?

it requires a lot of time to complete and must be plane. filled out accurately as the inspector will spend more time reviewing that than in looking at the Tom M: Would absolutely do it again, his plane plane.

Tom G: EAA technical counselors can be a great help, it is a significant benefit of membership in EAA for builders.

Tom M: Two inspectors came from Chicago,

Are you satisfied; would you do it again?

Chip: The plane could be built in a garage. Paul: RV kits are now all pre-punched which will Chip built his wings in his living room! Final as- make it that much easier for future builders. He was very satisfied but cautions that an RV requires a lot of time and effort. Some parts have Tom M: A one-car garage is sufficient, Tom to be fabricated, so a builder should check periknew one builder who actually built one in a odically with the company to see if the prints

grees. When working with T88, you don't want Tom G: Yes, he is very happy but cautions that a perfectly smooth joint, it works best with a it is a commitment. Epoxies must be mixed correctly. There is a group of builders getting together in Florida, meeting the other builders has

Chip: He would definitely do it again; building All agreed that the paperwork is very significant, was guick and easy and he loves flying the

> is a 2-passenger (side by side) and he flies it about once a week.



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LOCAL EVENTS COMPILED BY EAA CHAPTER 54

The event dates and locations listed here come from a variety of sources. There may be changes or cancellations. Please call ahead to verify that the event is taking place as scheduled.

April 8, Fort Dodge, IA, Annual Chili Fly-in, fort Dodge Regional, 11a-2pm. Rain date April 9, Eldon, 515-955-3635.

April 9, Dubuque, IA, University of Dubuque Flight Team Fly-In Breakfast, 8am-Noon, Dubuque Regional (KDBQ), \$6 Adults \$3 Children, Mike Glynn, 563-589-3277.

April 19-21, Willmar, MN 2006 Minnesota Airport Symposium "Transition in Aviation" 218-828-5049

April 23, Saint Cloud, MN, Saint Cloud Regional Airport, 11th Annual Airport Day, 10am-3pm. Pilots Free Booths & Displays, Todd Christopherson, 507-438-0782, chto0401@stcloudstate.edu

April 30, Graffton, ND, EAA Chapter 380 4th Annual Flapjack Breakfast Fly-in, Graffton Municipal Airport (KGAF) 7:30am-1:00pm. Scott 701-696-2224 <u>rscottpearson@yahoo.com</u>, <u>eaa380.zapstone.com</u>

May 5-7, Brainerd, MN, Minnesota SPA Safety Seminar, Brainerd Airport (BRD), Mike Aune, 612-720-4371.

May 13, Bloomington, MN, Minnesota Aviation Hall of Fame, Thunderbird Hotel, social at 5:30pm, inductions at 8pm. Reservations by March 30.

May 14, Fertile, MN, Mother's Day Pancake Breakfast, Fertile Airport (D14), Sharon Edlund, 218-945-3136.

May 20, Hangar Dance, Golden Wings Museum, Anoka County Airport, 8pm to midnight featuring Dave Andrews Big Band. http://www.discoveraviationdays.org

May 20 and 21, Blaine Aviation Weekend at Anoka County Airport, EAA Chapter 237 pancake breakfast and chili dog lunch, American Wings Air Museum, Golden Wings Museum, hangar dance Saturday evening, food and refreshments. http://www.eaachapter237.org

June 1-3, La Crosse, Wis. Deke Slayton Airfest. 608-779-9994. www.airfest.com

June 4, Reedsburg, Wis. Fly-in Breakfast 7am –Noon 608-534-6888. donhull@mwt.net