

WINTERMAIL

EAA CHAPTER 25

MINNEAPOLIS / ST PAUL, MN

JUNE 2014

Wing Skeleton Assembly

By Pat Hoyt



*Photo 1—
Major Wing
Components*

The major components of the wings have now been fabricated as specified in the drawings. The components required to assemble a wing skeleton are now collected and placed on a clean, level workbench (Photo 1 at left).

Spars are laid out, and all rib locations are carefully measured and marked on both the main and rear spars. The ribs are then

(Continued on page 4)

Take Flight—Aviation Careers

Exploration Camp *by Peter Denny*

Peter Denny will be teaching a program called “Take Flight—Aviation Careers Exploration” at Minneapolis Community Technical College from August 4 through August 8th. Spread the word, and get involved by flying students on Friday, August 8th!

Take off on an educational adventure in aviation and aeronautics in this action-packed camp! You’ll be introduced to a variety of careers in this field, including

aircraft mechanic, pilot, air traffic controller and unmanned aircraft system (UAS) technician.

You’ll learn about science, technology, engineering and mathematics (STEM) using aviation and aerospace as a medium as well as the goals and educational requirements you’ll need to enter this remarkable and expanding industry.

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“Say Intentions”

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May/June mtgs, Trivia Quiz P3

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"Say Intentions"



-an update from Kim V. (Gudgeon Pin) Johnson, EAA Chapter 25 President

For our June 18 Chapter meeting, our own Mike Tompos is going to tell us about his experiences flying in Southern California airspace, its VFR Corridors and Special Flight rules. He is also going to discuss takeoffs and landings at the Catalina and Santa Monica Airports. This is going to be a learning experience so don't miss it.

The next Ch. 25 Young Eagles Event is this Saturday, June 21. The "I Can Fly" event for kids with special needs, a joint effort between Ch. 92 at Glencoe and Ch 25 was cancelled due to weather and is re-scheduled for Sat. 6/28. Kris is always looking for pilots and ground crew.

Then, at our July Chapter meeting on July 16th, Gordon Duke, our Chapter Secretary, will be telling the story of his project, which is in the BSAEC hangar for final assembly and flight testing.

Our attempt to have our Ch. 25 Banquet at the Golden Wings Flying Museum at the Anoka-Blaine Airport didn't work out, so our banquet will again be at the Eagan Community Center again on Sun. 10/5. Put that date on your calendars and start planning your silent auction item. Ned Lebens will be distributing raffle tickets soon.

Don't forget to pick up a package of: pre-cooked brats, hot dogs, hamburgers, buns, condiments, deli salads, beans, chili, chips, cookies, plastic utensils, paper plates, cups and paper towels, soft drinks and bottled water and bring them to the Chapter meeting.

Every Wednesday evening that there is not a Chapter meeting, there is a Chapter 25 Pietenpol building project in which you can participate. We start at 6:00 pm at Dale Johnson's workshop in Burnsville. Come ready to work and we'll give you a task to do in the building of a Pietenpol Air Camper. Find a Piet builder to talk to if you have questions about this.

There is no lack of opportunities for involvement in Chapter 25 activities. We will work it out so that you can participate at your own level of availability. We are looking for a Food Coordinator, a BSAEC hangar maintenance task force, newsletter writers (write a story about an aviation experience or an interview someone about their aviation interest) and a librarian. See me if you are interested in serving in any of these capacities.

Four of my goals for Chapter 25 continue to be:

Encourage Chapter 25 membership by those with an interest in aviation.

(Continued on page 8)

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Visit our website at eaa25.org

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This Month: Wed Evening June 18th—BSAEC at Airlake

Grill on at 6pm, Meeting starts at 7pm

Please bring something to share: pre-cooked brats, hot dogs, hamburgers, condiments, deli salads, beans, chili, chips, cookies, plastic utensils, paper plates, cups and napkins, soft drinks and water. We also need a couple volunteers to cook!

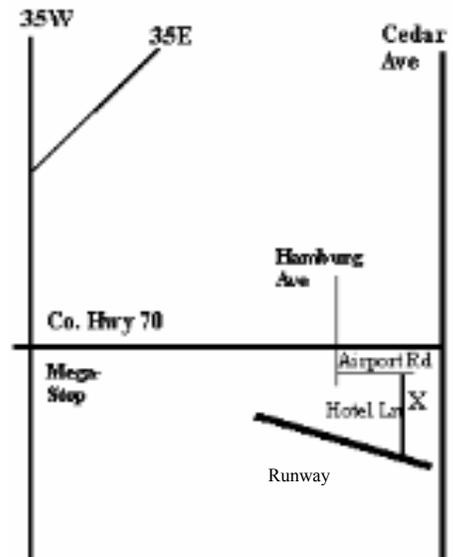
Program: Mike Tompos is going to tell us about his experiences flying in Southern California airspace, its VFR Corridors and Special Flight rules. He is also going to discuss takeoffs and landings at the Catalina and Santa Monica Airports.

Saturday June 21st Young Eagles To volunteer to help with young eagles, contact **Kris Olson:** 651-675-6826 ksimpson2@yahoo.com

Saturday June 28th Special Young Eagles "I Can Fly" Event To volunteer, contact **Kris Olson:** 651-675-6826 ksimpson2@yahoo.com

Sunday Oct 5th—Annual Banquet, Egan Community Center

Directions to BSAEC (Chapter Hangar at Airlake): South on I-35 to Hwy 70 (Megastop), then East to Hamburg Ave (3rd stop sign.) Right turn and South to airport perimeter road. Left on airport perimeter road then right on Hotel or India Lane. If the surface is firm, please park on space between hangars.



EAA Chapter 25

Meeting Minutes for Wednesday 21 May 2014

Presiding Officer, Kim Johnson, President

**Bert Sisler Aviation Education Center
at Airlake Airport, Minnesota**

The meeting was called to order by Kim Johnson, President. President Johnson asked that members remember Norm Tesmar who is ill. Member Lou Martin led the pledge of allegiance. A moment of silence was observed for those who have made the ultimate sacrifice for our country.

Members Gary Stinar and Kris Olson were thanked for helping with the food service. President Johnson asked for a volunteer to help with food next meeting but there were no volunteers. Thanks were given to Peter Gavin for excellent work on the chapter newsletter. Thanks were also given to members who contributed to the newsletter including Pat Hoyt, Kris Olson, Gordon Duke, John Schmidt and Lou Martin.

Member David Olson reported on the Young Eagles program – 61 young people were given rides in three airplanes during the most recent meeting. All pilots and ground crews who have ever served at a Ch. 25 Young Eagles event were recognized by being asked to stand and receive our thanks by an applause of gratitude. The next Young Eagles meeting will

be Saturday, June 21, 2014.

Members were reminded that Pan-O-Prog activities will be held at LVN on Friday through Saturday, July 11 through 13. “*Panorama of Progress, or PAN-O-PROG as the weeklong festival is commonly known, began largely due from the success of the development of Lakeville’s Airlake Industrial Park. Sensing the future growth of the city, community leaders looked for a way to observe. Since 1967 Lakeville has been celebrating its successes as PAN-O-PROG!*” -- <http://www.panopro.org>

(Continued on page 7)

Final Approach Trivia Quiz from John Schmidt

Jerry Coleman, long-time and beloved announcer for the San Diego Padres major league baseball team, recently passed away at age 89. He played 10 seasons of major league baseball with the NY Yankees, in addition to being a WWII Marine pilot. His military flying service made him singularly unique amongst any major leaguer in the history of baseball. What is unique about Coleman's flying career while being a professional baseball player?

Answer on page 7

Wing Skeleton Assembly

(From Page 1)

threaded onto the spars, and placed close to their final locations prior to gluing (Photo 2). Once all the ribs have been positioned, the roots of the front and rear spars are aligned and squared with each other (Photo 3).

T-88 Epoxy is used to glue the ribs to the spars. The bottom of an overturned beverage can is a useful container in which to mix epoxy. Before the glue sets, each rib is double-checked for squareness (Photo 4).

After the glue cures on the ribs, triangular stock is glued to the intersections of the ribs and the front spars, as well as to where the ribs meet the rear spars. Clamps fabricated from slices of plastic water pipe are useful here.

Later, the trailing edge is glued and screwed onto the rear of the ribs, followed by the laminated leading edge (Photo 5). Spacers between each rib are cut and glued. Full beverage cans are useful as weights to hold the spacers in place until the epoxy cures.

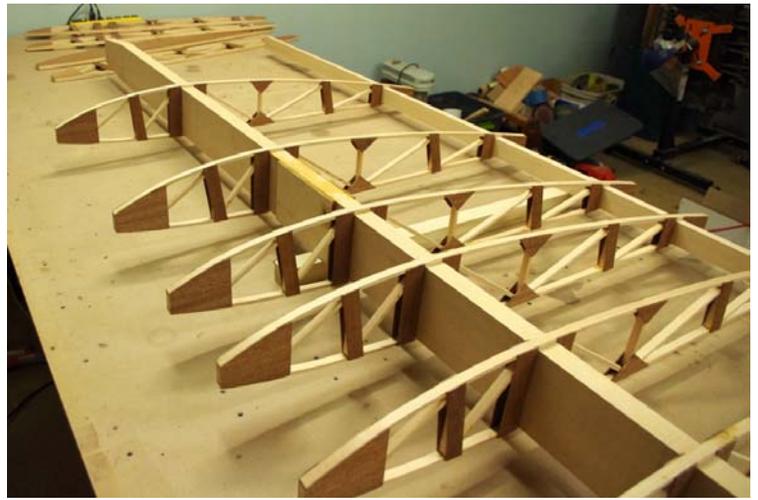


Photo 2—Threading Ribs Onto Spar



Photo 3—Squaring the Root



Photo 4—Squaring the Ribs



Photo 5—Leading Edge Attached

Solar Flight Goes Dual *From Avweb*

A California company says it's the first to fly a passenger in a solar-powered airplane. Solar Flight, of Ramona, Calif., launched its Sunseeker Duo from Milan, Italy, with both of the company's founders, Irena and Eric Raymond, in the spacious side-by-side cabin. "Sunseeker Duo is now officially the



first solar powered airplane to carry two people," the company said in a news release after the May 30 flight. Details of the first flight weren't released but the company says the next test is a 100-mile cross country to a neighboring airport in Italy. If they're right, the Raymonds believe the aircraft will have an endurance of 12 hours on solar power.

The aircraft has high aspect ratio wings and most of the upper surfaces are lined with solar cells that feed a battery pack. The 25 Kwh tail-mounted motor draws energy from the battery, which is, in turn, charged by the solar array. It uses battery power alone for takeoff and the sun sustains it in cruise. Fuel economy notwithstanding, the Sunseeker has some important other attributes, said Irena Raymond. "It's so quiet compared to a normal airplane," she said. "You can speak normally even when the motor is running full power, no headset needed."

FAA Clears Spaceflights *from Avweb*



Virgin Galactic, the privately funded space company owned by Sir Richard Branson's Virgin Group and Abu Dhabi's aabar Investments PJS, and Spaceport America [announced](#) that they have signed a joint agreement with the Federal Aviation Administration that helps clear the path for commercial flights of SpaceShipTwo. The agreement sets out the parameters for how routine space missions launched from Spaceport America will be integrated into the National Airspace

(Continued on page 8)

Hemchan's Graduation Party You're Invited!

Graduation Party
honoring

Hemchan A Ramnarine

CLASS OF 2014



Graduating from Columbia Heights High School

*Join us for a party on
July 12th at 4PM at
Ramnarine Residence
2019 41st Ave NE
Columbia Heights MN 55421*

Chapter 25 members are invited to a graduation celebration for Hemchan.

When: July 12th, 4 p.m.

**Where: 2019 41st Ave. NE
Columbia Heights, MN 55421**

MCTC Aviation Careers Exploration Camp

From page 1

We'll focus on different career paths each day of camp, with a variety of activities and field trips to give you real-world exposure. You will:

- Hear from both civilian and military pilots and aircrew
- Tour aircraft facilities such as Wipaire and Delta Air Lines.
- See and experience unmanned aircraft systems (drones) from Northland Community & Technical College.
- Take a flight in a light airplane courtesy of the Experimental Aircraft Association's Young Eagles program. (depending on the availability of pilot's for the Friday 8th August). While the kids are at LVN, they will be visiting the FBO and the North Memorial helicopter hangar.
- Visit an air traffic control tower at a major airport.

Learn about the opportunity to log official flight time as a student pilot with an FAA-approved flight school (there is an additional cost for this first "Discovery Flight" flying lesson).

Chapter members, this is an excellent opportunity to involve your kids, grand kids and Young Eagles. The cost of the camp is \$199.00 and this includes all transportation and lunches.

Kids over the age of 14 can register by calling **MCTC on 612-659-6500**.

The number of kids is 15 max. for the camp.

Pilots... I would like to recruit pilots and aircraft for Friday August 8th to fly students, maybe three aircraft and pilots plus ground crew.

Scholarships are available!

Thanks to support from the MCTC Foundation, a limited number of income-based and merit-based scholarships are available on a first-come, first-served basis.

For further information and to apply, download our scholarship application and submit it to the address above along with your registration and waiver forms. For more information on scholarship applications email: victoria.lauing@minneapolis.edu.

The MCTC Career Exploration Summer Camps are funded in part by the Carl D. Perkins and a grant from the Minnesota Office of Higher Education.

—Peter Denny

Thank You to Chapter 25

Dear Mrs. Dahlberg and EAA Chapter 25,

Thank you so much for awarding me this generous scholarship. It is so greatly appreciated and a huge financial step to helping me accomplish my aviation dreams. Although flying right now may be considered my education, I consider it my passion. I am privileged to pursue a career that allows me to go live my dream everyday when I go flying. It is because of your generosity that I am able to continue this passion again next semester at the University of North Dakota. In my next year at UND I am excited to be pursuing both my commercial certificate and my multi-engine rating. I am truly excited for this next chapter in my pilot training. This scholarship will ensure I am able to accomplish these goals this upcoming semester. Again, thank you and God bless.

Sincerely,

David Janney

Dear Chapter 25,

Thank you so much for awarding me your scholarship! I'm very honored to receive this generous award. I plan to use this money to get my tailwheel endorsement and seaplane rating this summer. I hope to attend a few meetings in the near future.

Thanks again,

Nathan Klocke

Stuff for Sale/Wanted

For Sale: Flightcom Model 403mc Voice Activated Monaural Aviation Intercom.

Four place, panel mount. New in box. Email roehler533@gmail.com

Wanted: Your dusty old VFR instruments for my Pietenpol project. Please contact Ned Lebens 952-567-3329 or nlebens@gmail.com

For Sale: Ellison EFS-2 Throttle Body Injector
don schlais <d.schlais@hotmail.com> 763-479-8228

For Sale: Aviation Books. Oldies, classics, some brand-new, some autographed. Inexpensive! Cutting down my library. I can e-mail a listing. Noel Allard. nallard@unitelc.com.

Meeting Minutes from May (Cont'd from P 3)

Secretary Gordon Duke introduced the newest resident of the Bert Sisler Center, N2074D, a Rans S-10 which Gordon has been rebuilding since December 2006. Gordon reported that the restoration was complete and that he was looking for an A&P to perform the annual condition inspection and a CFI to fly with him for a few hours of dual refresher training.

There being no further old or new business, President Johnson adjourned the business meeting.

For the evening program, members moved to the North Memorial Air Care Hanger for a presentation by Anne Horne, a flight nurse and the base manager at Airlake. Anne introduced pilot Leighton Quinn and flight nurses Donna Elvers and Chris Norman. The Air Care crew explained air ambulance services and the flight characteristics of the medical helicopters.

Submitted by Gordon Duke, Secretary



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Answer to Final Approach Quiz (See page 3)

The Padres announcer since 1962, he is the ONLY major leaguer ever to have interrupted his professional baseball career TWICE to serve active duty in two wars (WWII and Korea). (While Ted Williams served during both WWII and Korea, he flew combat missions only in the Korean war). Coleman played with Lou Gehrig, was named to the 1950 All Star Game, and was named World Series MVP. He was in the radio broadcast booth and made the call of former teammate Mickey Mantle's 500th career home run. He flew 120 combat missions, earning 2 Distinguished Flying Crosses and 13 Air Medals. He passed away on January 5, 2014.

MINNESOTA
PILOTS ASSOCIATION

www.MNPilots.org
Info@MNPilots.org

Minnesota Pilots Association
12000 Elm Creek Blvd. Suite 350
Maple Grove, MN 55369

Chapter Events

June 18th Chapter Mtg at BSAEC, 6 pm
(see page 3 for map & directions)

June 21st Young Eagles at Airlake
contact Kris Olson (see p2) if you can volunteer

June 28th Special "I Can Fly" Event
contact Kris Olson (see p2) if you can volunteer

Oct 5th Annual Banquet in Eagan CC.

Future meetings 7/16, 8/20, 9/17, 10/15, 11/19, 1/21, 2/18, 3/18, 4/15, 5/20, 6/17

"Say Intentions" from page 2

Encourage younger members to get actively involved in Chapter 25 activities.

Have all members get to know each other better.

Perpetuate the Chapter 25 Mission of furthering interest in building custom aircraft and supporting all with an interest in aviation by sharing our knowledge and experience.

"It takes less time to do a thing right than to explain why you did it wrong."

--Henry Wadsworth Longfellow, American poet

Looking forward to seeing you at the meeting!



FAA Clears Spaceflights

(Continued from page 5)

System. Specifically, the agreement spells out how the FAA's Albuquerque Air Route Traffic Control Center and the New Mexico Spaceport Authority (NMSA) will work with Virgin Galactic to smoothly and safely provide clear airspace for SpaceShipTwo.

The agreement provides procedures for the integration of commercial, licensed space launch operations into the National Airspace System from Spaceport America. The NMSA also has an agreement in place with the US Army's White Sands Missile Range (WSMR) to support space launch activities within WSMR airspace. In addition, Virgin Galactic now has agreements in place with Edwards Air Force Base and the FAA's Joshua Control Facility to cover spaceflights in California. As a whole, these agreements provide coverage for the company's airspace needs through the remainder of the test flight program in California and into commercial service in New Mexico. Last year, Virgin Galactic began paying rent on a 20-year lease to conduct space missions from the 110,000-square-foot "Gateway to Space" building at Spaceport America.



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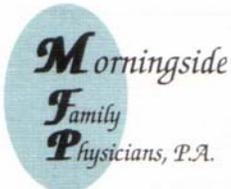
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