



**Next Meeting: Thursday, January 21st, 2010
7:30 PM at the EAA 113 Aviation Center**

EAA Chapter 113
Mark Freeland
42636 Faulkner Drive
Novi, MI 48377

EAGLE'S PROPWASH

January 2010 Issue



CHAPTER 113

"The Backyard Eagles"

Mettetal Airport (1D2), Canton, Michigan



Dioxide Darling
Photo courtesy of Retro RC

Our Web Site: www.eaa113.org EAA113@yahoogroups.com
Meetings: 7:30 p.m. the 3rd Thursday of each month at the
EAA113 AVIATION EDUCATION CENTER!

Member Services

President: Dave Buck (734) -4535375
Vice President: Jim Trick (248) 766-2092
Secretary: Bob Wagner (313) 274-8292
Treasurer: Grant Cook (734) 223-2688

Board of Directors:

Al Bosonetto David Forsman
 Pete Waters Bill Brown
 Mike Scovel Rick Titsworth
 Bob Skingley Tom Smith
 Joe Griffin Pat Charles
 John Maxfield Lou Lambert
 Barb Cook Sean Crooks

Les Gallagher

Membership Committee:

-Roster: Mark Freeland (248) 624-9654
-Dues: Grant Cook (734) 223-2688

Technical Counselors:

Joe Hillebrand (480) 895-6314
 Randy Hebron (734) 326-7659
 Pete Waters (248) 437-4244
 Dan Valle (313)-539-9818

Flight Advisors:

John Maxfield (248) 348-1417
 Dan Valle (313)-539-9818

Scholarships: Howard Rundell (734) 658-7701

Library: Barb Cook (734) 277-3469

Young Eagles:

Dave James (734) 721-4213
 Debbie Forsman (734) 397-3452

Bald Eagles: Mark Freeland (248) 624-9654

Refreshments: Joe Griffin (734) 455-3107

Newsletter: Pat Charles (248) 978-3772

bittybipe@wideopenwest.com

Webmaster: Donna Monson

webmaster@eaal13.org

Aviation Center Management Committee:

Al Bosonetto (734) 261-5518
 Dave Buck (734) 453-5375
 Bill Brown (734) 420-2733
 Bob Skingley (734) 522-1456

Mission Statements Chapter

“EAA Chapter 113’s major focus is on the relationships with people who have diverse aviation interests, centered around their love of flight, fellowship, learning and fun. Chapter members have a passion for flying and are willing to share it with others. Chapter 113 provides the opportunity for exchange of information as well as the interaction that leads to friendships that last a lifetime.”

Board

“The Board of Directors are to provide both advice and assistance to the chapter officers on an ongoing basis.”

Calendar of Events

January 2010

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27	28	29	30	31	1	2
				No Board Meeting	Happy New Year	8:30a Breakfast at Coney
3	4	5	6	7	8	9
			7p Midwest RC	2p Texas Hold'Em Tournament	2p Texas Hold'Em Tournament	8:30a Breakfast at Coney
				7:30p Homebuilders Project Corner		2p Texas Hold'Em Tournament
10	11	12	13	14	15	16
2p Texas Hold'Em Tournament			7:30p Ford Eagles	7:30p Safety Meeting		8:30a Breakfast at Coney
17	18	19	20	21	22	23
				7:30p EAA Chapter 113 Meeting		8:30a Breakfast at Coney
24	25	26	27	28	29	30
				7:30p EAA Chapter 113 Board Meeting		8:30a Breakfast at Coney
31	1	2	3	4	5	6
			7p Midwest RC	7:30p Homebuilders Project Corner	7:30p EAA Movie Night	8:30a Breakfast at Coney

EAA CHAPTER 113 2010 AVIATION STUDIES SCHOLARSHIPS

EAA Chapter 113 Board of Directors has approved two, one thousand dollar (\$1000) scholarships for the 2010 Aviation Studies Scholarship program to be awarded to qualified local graduating high school seniors, college students or students attending the Michigan Institute of Aviation and Technology who are or will be enrolled in an aviation major curriculum.

Recognizing the EAA's primary interest in promoting sport aviation, the applicant eligibility criteria again includes high school graduates twenty-five years old or younger as of April 9, 2010 regardless of their course of post high school studies who are active flight students at an approved flight training facility and who have completed their first solo flight. The money if so awarded would be directed specifically at the continuation of the scholarship recipient's flight training.

In its twenty-third year, the EAA Chapter 113 program has disbursed approximately twenty-one thousand five hundred dollars (\$21,500) to thirty-eight individual scholarship winners since the first awards were made in 1987. (Early records are incomplete) This is great testimony to the Chapter's dedication to the promotion of sport aviation and aviation careers among local area young adults.

The Chapter's membership is the best source of candidates. Members should consider it a mandate to be at the forefront in actively promoting aviation careers and sport aviation, encouraging young aviation-minded men and women to apply for the 2010 scholarships. A copy of the member sponsored scholarship application appears in this month's newsletter.

If you have any specific questions, please contact Scholarship Chairman Howard Rundell at 734 658-7701 g5av8or@aol.com or any Chapter Officer.

President's *Podium*



Tom Smith (734) 748-7940
tgsmith398@comcast.net

Happy New Year. I hope everyone had a great holiday season.

I am the new chapter president, taking over from Dave Buck. I want to thank both Dave and Priscilla for everything that they have done for the chapter over the past several years.

Last month's chapter Christmas dinner was a great success, and was attended by many friends and guests. I want to thank Lou for cooking the turkey, and also thank those who were there to help setup the hangar and clean up afterward.

The Annual Awards Banquet is coming up soon. It will be held on March 20th. I hope everyone will be able to attend. Also, in February, the Great Lakes International Aviation Conference will be held in Novi on the 19th and 20th. Then, on the 27th, we will be again hosting our Frostbite Chili fly-in.

Attached to this newsletter is information on the chapter's annual scholarship program. Applications have been distributed to local schools, but chapter members can sponsor anyone.

If anyone has a project or a new plane, please send in pictures and a brief description to both our Webmaster at webmaster@eaal13.org, and our Newsletter Editor at bittybipe@wideopenwest.com or click on the email link on our website.

Tom

Paulson Aviation *Library*



Barb Cook (734) 277-3469
barb@armipay.com

Thanks to several generous members who have donated aviation related books to our collection, I discovered we have several on the topic of "HISTORY OF AVIATION". Most interesting of these are the ones that cover aviation BEFORE the Wright Brothers.

"Flight Through the Ages; A Complete Illustrated Chronology From the Dreams of Early History to the Age of Space Exploration" by Gibbs-Smith, Crowell, 1974. Shelf number: OVER 629.13 09 SMI. Donated by Ken Spencer.

This is organized as a time-line chart in Chronological order, with quotations, fine line drawings, no photos, not much narrative text. A coffee-table style over-sized book. Gives an overview, but not for bed-time reading. He divides Flight into 5 eras:

- I. Dreams & Myth mythology - 1859
- II. Invention of flight 1860- 1907
- III. Early Aviation 1908- 1929
- IV. WWII, Jets, Passenger Jets 1930- 1956
- V. Satellites, Supersonic, 1957- (1974 published)
(We hadn't reached the moon yet in 1974!)

"Dream of Flight; Aeronautics from Classical times to the Renaissance" Faber & Faber, 1972. Donated by Don Ruff. Shelf number 629.13

He gives much more detail and narrative description, with particular attention to the pre-history of flight, when it existed only in man's dreams. His chapters cover:

Hopes & Expectations Banner Windsocks/Flying Dragons
Rocket Birds Kites

Mechanical Birds
Flying Chariots, Parachutes, Windmills

Winged Men
Leonardo

This author has a rather academic approach, with full bibliographic notes- but I am certainly intrigued by the flying dragons and rocket birds. I'd have to give this a try. It would be interesting to see the early attempt at the Winged Men, as compared to the current version.

The Airplane; How Ideas Gave Us Wings, by Jay Spenser. Smithsonian Books, 2008. Shelf number 629.13 334
Spencer is a curator of National Air & Space Museum. Spenser brings out 2 different points: Man's first vision of flight was actually the Greek Hellenist sculptor who created "Nike of Samothrace" (known to me as The Winged Victory of Samothrace). He gives much credit for the invention of the flying airplane to a Yorkshire baronet, Sir George Cayley (1773-1857.) Apparently it was Cayley that laid down the fundamentals of the science that the Wright Brothers read, and that enabled them to actualize a flying airplane.

He divides the history of flight into:

- I. CONCEPTION
- II. BIRTH -Wright Bros & their world
- III-XII. Development of Airplanes by Section (Fuselage, Wings)
- XIII. Safety concerns
- XIV. State of the Art
- XV. Tomorrow's Wings

This book was my choice. I want to learn more about what Cayley worked out. I'll have it back on the shelf soon.

Next month:

2 books on the topic of: WHY WE FLY
(Donated by Bruce Breisch & John Maxfield)

Barb

The Dioxide Darling!

By Patrick Charles

Ok, so this is the first installment of my series on building a Retro RC kit of the Dioxide Darling model airplane. I thought this might be of interest to people like me who have never built a model airplane before and were looking for a winter project which relates to flying.

Retro RC vintage & retro model
airplane kits, accessories

designed by: **1948**
Frank Ehling

Dioxide Darling

~14" span
~38 sq/in
~1/2 - 1 oz
~ canard glider
or you can add electric

~ all laser-cut wood
~ made in U.S.A.

\$15.99 + S&H

www.RetroRC.us.com
VISA (248) 212-9666 MasterCard
PO Box 193, Keego Harbor, MI 48320

Background in the words of Retro RC founder and EAA Chapter 113 member Mark Freeland:

"Frank Ehling was the originator of the Dioxide Darling design in 1948. He won the Nationals category for CO2 powered free flight models that year with it, setting a record of a combined flight time of 23 mins and 14 sec for three flights..... Not too shabby, even by today's standards.

Frank later became well known for the design of the AMA Delta Dart. He served the AMA for more than 20 years as Technical Director, and the AMA Museum was named after him in 1990.

The 1948 Dioxide Darling is Retro RC's 3rd production kit, and will be shortly followed by three other new kits. They are the Trioxide Darling and the baby e'Moth (which is a 24" wing span electric model, which disassembles and can fit inside a briefcase) both in January, and the 1924 ANEC II which is a scale model of a British aircraft which is in the Shuttleworth Collection at Old Warden Aerodrome in England.

The Dioxide kit is available to ship now and retails for \$15.99. The Trioxide is my own adaptation of Frank Ehling's design and is going to be used to teach an after school class at James R. Geisler Middle School in Walled Lake starting in late January 2010. I expect a class of 15 to 20 kids between the ages of 11 and 13. Mr. Leach, the Design Tech teacher will be assisting me run the class, as he did last January when we had a class of 19 kids building the Kat'Ana kit that I designed for teaching with. The Kat'Ana proved to be very popular, I am now on my third production lot of kits (50 kits per lot). I anticipate a similar reaction to the Trioxide kit when it is available.

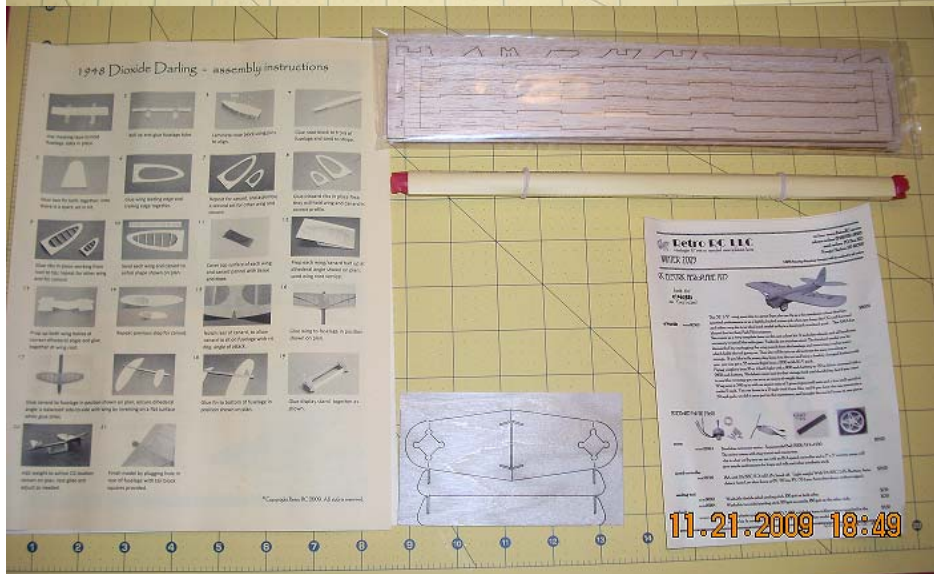
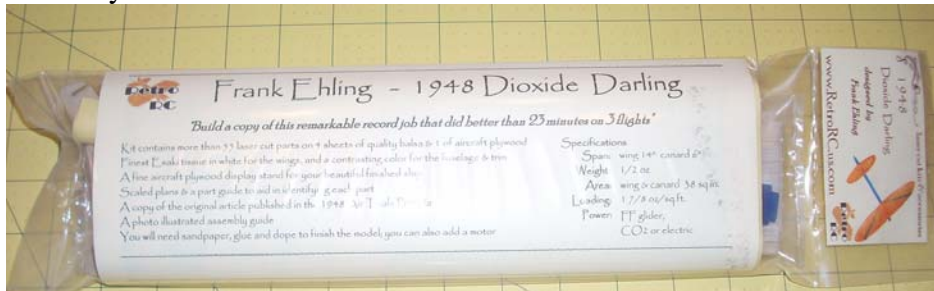
Retro RC LLC will have its own laser cutting and engraving machine which I hope to keep busy cutting and engraving other outside work as well as my own kits. The laser has a work area of 12" x 24", and has sufficient power to easily cut through 1/4" plywood in a single pass. It is able to engrave anodized aluminum, (but not shiny aluminum), glass and many other materials like marble, plastics etc. It would be ideal for making custom placards, or instrument labels for an instrument panel, or cutting intricate patterns in wood or plastic.

If any one is interested they can contact Mark at Retro RC on (248) 212-9666."

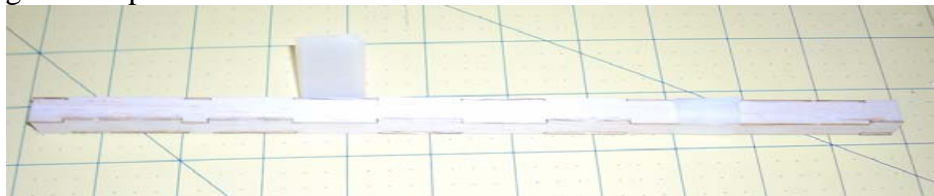
Note: *As of this printing both the Dioxide Darling kit and the Laser cutting and engraving is available from Retro RC, LLC.*

Reason: So why did I choose the Dioxide Darling as my first build? It was simply a matter of convenience, but has turned out to be a very enjoyable experience: so much so, that I have purchased a second kit to build with the adaptation of an electric motor which Mark tells me works quite well on this plane.

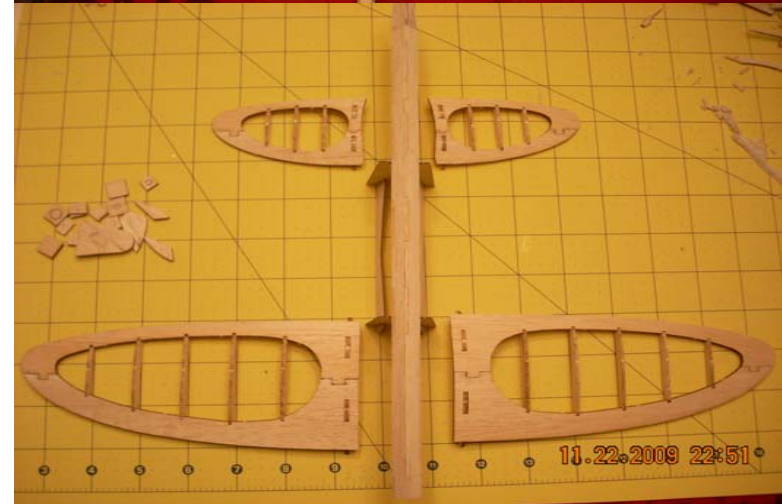
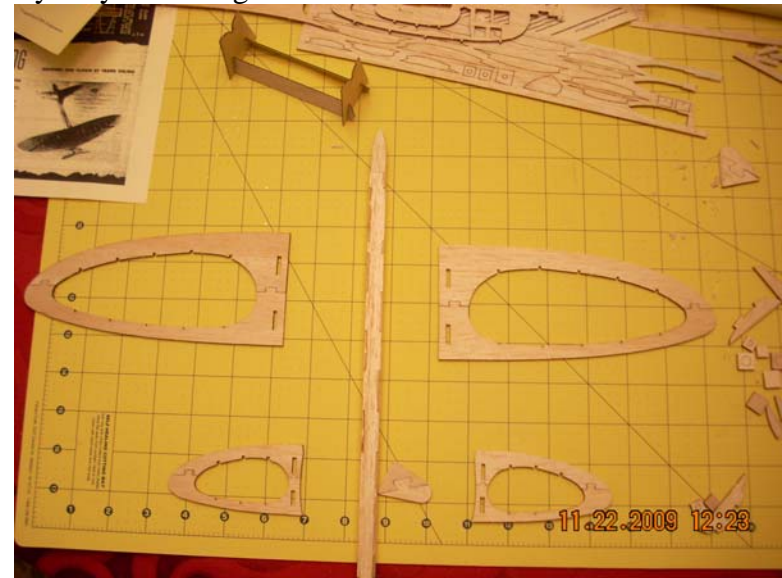
Kit: The kit is well thought out and very complete with the exception of the glue, dope, and thinner needed. I started by laying out the components and then starting trimming out all of the pieces before assembly.



Following the directions, I laid out the sides of the fuselage and “rolled” them into the square and held them together with masking tape while the glue set up.



With the fuselage together, the nose block was assembled, glued in place and sanded to shape. Mark was kind enough to suggest I use a course nail file as a sanding board and this worked remarkably well! Next the wings and canard were glued, assembled, and sanded to shape to match the plans. This took a little while to complete but was relatively easy and straight forward to do.



To be continued in next month's newsletter.

**CHAPTER 113 EXPERIMENTAL AIRCRAFT ASSOCIATION
2010 AVIATION STUDIES SCHOLARSHIP**

CHAPTER 113 MEMBER SPONSOR APPLICATION

Two one thousand dollar (\$1000.00) scholarships will be awarded by Chapter 113 to graduating seniors from the Plymouth, Canton, Salem, Livonia, Northville, Novi and Wayne-Westland area high schools and students enrolled in the Michigan Institute of Aviation and Technology. **Graduating seniors from other local area high schools as well as students already participating in a post high school curriculum are eligible when sponsored by a current member of EAA Chapter 113.** Minimum qualifications are: 3.0 G.P.A., admission to a college, university, or trade school majoring in aviation related studies such as Aeronautical Engineering, Aircraft Mechanics/Technology, Pilot Training, etc. **Additionally, the scholarships are being offered to area high school graduates twenty-five years of age or younger as of April 9, 2010, who though not enrolled in a post high school aviation curriculum, are currently active flight students in an approved flight school and have completed their first solo flight. These monies would be directed specifically at the continuation of this flight training.**

PLEASE NOTE: Under certain circumstances, some exceptions to the above qualifications may be considered by the Chapter's Board of Directors.

Please submit the following information to the EAA 113 Scholarship Chairman at the address listed below **post marked no later than April 9, 2010.** Pending final selection, the top four candidates from all sources will be contacted by phone by the Scholarship Chairman, Howard Rundell for a short interview. Selection and notification of the successful candidates will be made before the end of May 2010.

NAME:

BIRTH DATE:

ADDRESS:

PHONE NUMBER: ())

EMAIL ADDRESS:

HIGH SCHOOL GRADUATING FROM:

GRADE POINT AVERAGE: _____ . **PLEASE ATTACH COPY OF GRADE TRANSCRIPT**

NOMINATING EAA CHAPTER 113 MEMBER NAME:

HIGH SCHOOL OR OTHER EXTRA-CURRICULAR ACTIVITIES:

FLIGHT SCHOOL LOCATION, COLLEGE, UNIVERSITY, OR TECHNICAL SCHOOL ATTENDING OR TO WHICH ACCEPTED:

MAJOR:

FLIGHT TRAINING APPLICANTS, PLEASE ATTACH COPY OF LOG BOOK SOLO ENDORSEMENT

IN YOUR OWN WORDS, STATE WHY YOU SHOULD BE CONSIDERED FOR THIS SCHOLARSHIP. **IT IS IMPORTANT TO NOTE THE AWARDING OF THIS SCHOLARSHIP IS NOT BASED ON FINANCIAL NEED.**

YOUR COMMENTS SHOULD CAPTURE YOUR PASSION FOR AVIATION. (Please type and attach to this application)

RETURN APPLICATION AND SUPPORTING DOCUMENTS POST MARKED BY APRIL 9, 2010 TO:

**HOWARD RUNDELL
21773 NORTH CENTER ST
NORTHVILLE, MI 48167-2113
(734) 658 7701 g5av8or@aol.com**