



FT	3000	6000	9000	12000	18000	24000	30000	34000
BRL	1937	2215+12	2106+07	9900-09	3205-10	2048-14	203444	203444
DBQ	1922	2215+12	2106+07	9900-09	3205-10	2048-14	203444	203444
DSM	1919	2215+12	2106+07	9900-09	3205-10	2048-14	203444	203444
MCW	1709	2215+12	2106+07	9900-09	3205-10	2048-14	203444	203444
JOT	2229	2215+12	2106+07	9900-09	3205-10	2048-14	203444	203444
SPI	2028	1921+18	1911+12	9900+06	3611-10	3408-20	191034	161745



EAA Chapter 790

Lake in the Hills, IL

790.eaachapter.org



PRESIDENTS MESSAGE

June's Guest Speaker, Tuesday, June 23 6:00 PM –

Did you know that during WWII DeKalb Airport was the site of a top secret project? We have a special guest this month that not only do I think you'll enjoy hearing him, but you'll want to bring a friend to hear him as well. Our guest speaker is Mr. Roger Keys. Over thirty years ago at a garage sale, Roger found an unusual looking model plane. Having made dozens of models as a kid, he suspected it wasn't "just" a child's toy. But it was several years before a friend at a local fly-in saw the model and identified it as an Interstate TDR Drone. That was the beginning of a fascinating journey to learn the history of this once top secret WWII weapon and Roger's passionate mission to honor the dedication of those who developed and deployed this remote controlled bomb. His research has taken him to the workshop of a TDR engineer in Wisconsin, and the reunions of the men of STAG ONE, the Navy air group that operated the drone in the South Pacific. He has had the pleasure of presenting the war production workers of DeKalb, IL and US Navy veterans with certificates

of award and continues to work on securing a permanent display for the airport in DeKalb, IL.

Ted's hanger (P60) at LITH Airport, (Meeting Directions: Ted's hanger, (P60) is in the west-most row of hangers at LITH Airport. To get there, enter the airport at the south-most gate (south of Blue Skies). Please call or email me for the gate keypad code. Drive west as far as you can, taking you to the west-most row of hangers. Ted's P60 hanger faces east. Park on grass anywhere in the vicinity, but please make sure your car does not overhang any hard surface for wing clearance. There is a lot of additional space south of Ted's hanger for parking. If you arrive after 6:45-7:00, you may have to park in the main parking lot by Blue Skies.

We'll start cooking burgers and brats around 6:10 and last call is at 6:50 pm so come prepared to eat and talk! We will be available for a donation; everyone is encouraged to bring a small side dish to pass as well. Also, you DO NOT need to bring a chair, we have enough to go around.

Continued on Page 5

A SUCCESSFUL FORD MUSEUM VISIT

Early on May 14,th five Chapter 790 members and two guests set out on a safari to visit the world famous Ford museum, Greenfield Village and Ford-Rouge assembly plant in Dearborn, Michigan. Captain Ole, Co-Captain Dave Boone and guest blasted off in the venerable Prescott Pusher and made the targeted Willow Run airport in light plane fashion in record time. The remaining three members, Jim Bertoglio, Ron Liebmann, Lon Danek and guest took the low altitude, four wheeled route to the first destination, the Ford Rouge assembly plant.



Ford, F150 trucks are assembled at this location, and we were able to view much of the typical assembly line which the Ford Company pioneered in the early stages of auto manufacturing. Although we know that modern assembly lines are designed to push product through the assembly procedure quickly, an observer is impressed with the use of modern technology to improve product quality as well. Example: use of laser guidance to install a truck windshield, robotically, quickly and precisely where it belongs, NO HANDS, NO GUESSWORK! Assembly line personnel worked in tandem with the moving assembly line, installing parts, inspecting and supplying the materials for assembly. VERY IMPRESSIVE!

Friday, the 15th found our group at The Henry Ford



museum, known world-wide for its collection of cars, early vehicles, machinery, early farm equipment, steam engines, trains and locomotives, and much more. The museum occupies about 90,000 square feet of display items and provides a glimpse of the history of the manufacturing and transportation systems in the US. It has one of the largest steam locomotives, The Allegheny, on display along with smaller steam locomotives and train cars. It boasts a collection of Indy type race cars, a collection of Ford and other name brand (some obsolete) cars of the past, of historical interest. A display of aircraft and accompanying history is also part of the museum. If you haven't seen this museum, it's worth the time and travel to do so.



Continued on next page

A SUCCESSFUL FORM MUSEUM TRIP Cont.



Our group visited Greenfield Village on the AM of May 16th. It lies adjacent to the museum grounds and portrays what life was like starting near the turn of the century. Ford and Edison family buildings are displayed along with farm property, tilled by horse drawn plow and actual growing crops. Persons working the Village properties wear clothing representative of the early century, and horse drawn wagons and coaches may be seen on the village roads.



Buildings with power driven tools are representative of early manufacturing in the US and Europe. Some of the equipment is still operable, and does operate by attendants who describe purpose and function of the equipment. A steam engine drawn

train encircles the village and is used to transport visitors to various points of interest in the village. Of particular interest is a "round house" which was used for servicing steam locomotives, one of the train stops by the village train. When visiting, a full day should be allocated to fully enjoy Greenfield Village.



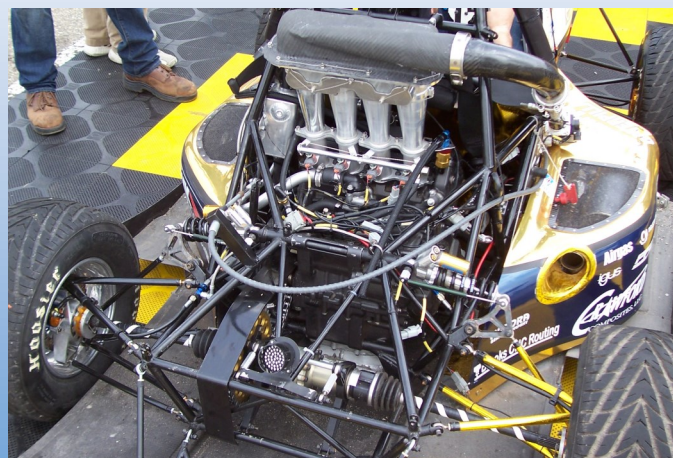
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A SUCCESSFUL FORD MUSEUM TRIP (Cont.)

.Mid- day found our group travelling to the Michigan International Speedway, Brooklyn, Michigan, to observe the Formula SAE Competition. 790 member, Steve Fox, is a judge at this three day event and has been volunteering his time with this group since 1999. Steve gave us the “heads up” on this event and we were able to include it in our safari.



The Formula SAE concept was created in the early 1980's by a college professor who lamented that graduating engineers had superior engineering skills but did not understand the basics of mechanics, complex device assembly, and serviceability. The professor created a competition for North American college engineering students to design, build and test a small formula style race car to give students real world manufacturing exposure and to broaden their engineering talents.



The program was so successful that the SAE (Society of Automotive Engineers) joined the efforts of the program by sponsoring the competition which was then named Formula SAE. 15 countries on all continents of the world now have FSAE competition.

Our group was fortunate to see the last day of the 120 car competition where FSAE cars were driven over a preplanned course on the speedway grounds, the last testing and evaluation component of the three day event. In addition to observing some of the cars up close, and talking to the designers and builders, the races were interesting and exciting and were enjoyed by our group. Our thanks to Steve Fox for his invitation to this eye opening event.



It was a busy but interesting three day safari----- and enjoyed by all!

Pictures and Write up submitted by Lon Danek

PRESIDENTS MESSAGE (Cont.)Pancake committee meeting

Our final Pancake committee meeting will be held Saturday morning, June 20, at 9:00 am. We will meet in the office at Lake in the Hills Airport. We will be going over final details for the breakfast. **Be sure to bring your coolers at that time.**

Sunday, June 28 –Fourth Annual Chapter Pancake Breakfast: We are in the final stages of our fourth annual pancake breakfast! Our breakfast is in two weeks and we need your help. As before, we are in need of your help to make this event a success. It's easy to sign up, just follow the link and sign-up today:

<https://docs.google.com/forms/d/18dVOB1bZxcyD-fhpsDEVURXL-ye8X6wKjT8Dua6TiFM/viewform>

Thanks to Matt Saban for a very interesting and informative ADS-B presentation at our May Chapter Meeting. Matt owns the "Mobile Avionics Technologies" Shop at Lake in the Hills Airport, 8585 Pyott Rd. He can be contacted at 815/575-4235.



Members info

- Jim Bertoglio is recovering from his back surgery. Jim we wish you a speedy recovery.
- Karl Singer was presented with a very deserving 'Spirit of Aviation Award' by Elton Eisele for all of Karl's gracious assistance on behalf of Chapter 790.



- Drew Bryant was awarded the \$1,000 Scholarship by Joe Rossi. Drew graduated from HS in June and currently is working at Finefield Aviation. His plans are to fly missionary work upon obtaining his Pilot and A&P Certificates. He will be leaving for Canada in July to continue his aviation training.



EXPERIMENTERS CORNER

Following the May Chapter Meeting, Doug Raupp invited us to see his Lancair project in the hanger next door. Doug has hosted several build meetings for our chapter. As previously reported he had some problems with the Wankel engine. It is now repaired and reinstalled in his plane.



Doug answered questions and provided valuable insight in this 22 year project. (His Marine Corps Flying duties kept getting in the way). Especially interesting to this writer was his explanation on setting up the CG. The project plans called for wet wing tanks along the leading edge. While consulting with other builders, this concept proved to lead to a CG moving aft during flight as the fuel was used. Hence the fuel was moved closer to the wing roots.



Since the Wankel engine needs special lubrication, oil is added to the fuel. Left and Right fuel usage is determined by left and right fuel pumps controlled by switches in the cockpit's front panel.

The glass panel has battery backup for each main screen in addition to the main and alternate batteries located behind the passenger seat. Battery life can be displayed via the main screens menu.

The system uses a FADEC type Mixture control, hence there is no need for a manual mixture setting.

Thanks Doug for sharing your valuable building experiences.

Write up and pictures submitted by Tom Solar



Dear Sir or Madam,

Please allow me to take this opportunity to invite you to be an active participant in our local EAA Chapter 790 pancake breakfast fundraiser on June 28th at Lake in the Hills Airport. As you may be aware, the EAA is the countries largest volunteer general aviation organization. We continuously strive to engage the local community, particularly children, to join us in celebrating aviation. We do this by providing youth aviation scholarships, free 'Young Eagles' introductory flights and other events that promote youth in aviation, all with the generous support of our volunteers.

While our volunteer members do a wonderful job with the heavy lifting, we still need your support. We are asking the local business community to contribute donations of \$100 or greater per business to help support our event. In addition to the smiles and excitement these donations will translate into on our communities' youth, your business will be recognized at our pancake breakfast.

Each participating business will be recognized on banners at the event. Business names and logos will also be on all event fliers and marketing tools. If you desire, there will be space provided at the event where you may have any samples, demos or representatives from your company including point of sale (please contact 790 to make arrangements). Chapter 790 also invites our generous supporters to offer coupons at the event to promote foot traffic long after the event has ended.

We graciously accept any contributions you can provide and are expecting a turnout commensurate with previous years of about 600 guests. Thank you for your consideration in this matter and we look forward to partnering with you. Please make out to check to:

EAA Chapter 790 . Do not hesitate to call with any questions you may have.

Elton Eisele, n137ee@aol.com or 630-776-3653

Best Regards,

EAA Chapter 790

Elton L. Eisele, Chapter President

Your Name _____ Name of

Company _____

Address _____

Town _____ Zip Code _____

We will need a logo sent to: Rob Nelson, rob@drivebuymarketing.com



YOUNG EAGLES

On June 6th the Chapter held there first Young Eagles Flights (the scheduled May flights were cancelled due to weather). 76 Young Eagles were flown. Bud Herod chaired his first Young Eagles program. Bud is no stranger to the Chapters Young Eagles Program. He has led the ground crews for these events since forever. Thanks go out to the Civil Air Patrol for assisting in ground crew work managed by Steve Fox and CAP Jim Wresch. Nancy Blazyk was available to help run the desk along with Tom LeGates, Don Jenerick, Rob Nelson and a visitor of Nancy's. Pilots included Larry Blazyk, Ted Lipinski, Lon Danek, Paul Sindberg, Dave Boone and Tom Solar. I am sure I have left out others, so please forgive this writer and thanks to all who make this program successful.

YOUNG EAGLES

The gift of aviation is grown...



...help us raise the next generation.



Please volunteer.



Lake in the Hills Airport (3CK)
790.eaachapter.org
for details on the next event



EAA CHAPTER 790

2015 Member Information

Please Print

Last Name

First Name

Spouse

EAA Membership #

Street Address

City

State

Zip

Home Phone

Work/Cell Phone

Email Address

Aircraft

Model

Own ____

Rent ____

Club ____

Building/Restore ____

I would like to receive the newsletter by: Email ____ U.S. Mail ____

Dues for 2015: \$25.00 Family or Individual ____

\$10 Student/Out of State: ____

Part of your dues will be used to support

Mail Check To:

EAA Chapter 790

Our Scholarship Fund

P.O. Box 1206

Thank Your for your support

Barrington, IL 60011

790 Calendar of Events

March 20-21 Leadership weekend EAA
 March 24Meeting Dick Greenwood (North Pole adventures)
 April 11Pancake Breakfast Committee Mtg (Panera Bread Algonquin. 9:00 AM)
 April 18 ---Rochelle Airport Lunch
 April 25---Air Zoo Kalamazoo--- with other EAA Chapters from northern Illinois
 April 28 ---Chapter Meeting Chili Cook-off –Kenn and Mark Andersen presenters
 May 19...Pancake Breakfast Committee Mtg (Panera Bread Algonquin. 6:30 PM)
 May 9----Young Eagles
 May 15-17---Trip to Ford Museum
 May 26---Chapter Meeting- Avionics Talk-Mike Saban-Ted's Hanger P60 LITH Airport
 June 6----Young Eagles
 June 9 ...Pancake Breakfast Committee Mtg, Board Mtg-- 6:00 PM Lon Danek's house
 June 13---Yokes and Spokes Cancelled
 June 23---Chapter Meeting-Ted's Hanger P60 LITH-- Invited Roger Keys to speak on the TDR-1 military pilotless drone manufactured in DeKalb at the Wurlitzer factory in the 1940's for the U. S. Navy.
 June 20 ...Pancake Breakfast Committee Mtg (Karl Singers Hanger LITH 9:00 AM)
 June 28---Chapter Pancake Breakfast at Lake in the Hills Airport
 July 20-26---Oshkosh AirVenture
 July 28--- Chapter Meeting---AirVenture rundown, Ted's hanger P60
 August 22----Young Eagles
 August 23... Ken and Son's 20th Annual Day at the Hanger
 August 25--- Meeting Guy Lieser -former ATC and now area speaker/instructor
 Aug 30--- Sunday---Poker Run with other EAA Chapters from northern Illinois
 Sept 12----Young Eagles
 Sept 22---Chapter Meeting-- Paul and the FAA, Ted's hanger P60
 Oct 9-10---- Air Force Museum, Dayton Ohio
 Oct 27---Chapter Meeting-- AME--Dr. Greg Ostrom (to be confirmed) Ted's Hanger P60
 Nov 24---Chapter Meeting-- Aircraft structures, Mike Perkins
 Dec 22---Chapter Christmas Party
 Jan 26---- A better Fuel System (2016)

Send any of your aviation adventures, pictures, articles or humor you would like to appear in the Newsletter to:

["tomsolar@sbcglobal.net"](mailto:tomsolar@sbcglobal.net)

2015 Summer Calendar

EAA Chapter Events in the Chicago Area



www.eaa932.org



www.eaa95.org



www.eaa153.com



790.eaachapter.org



May

- 9th - Chapter 790 Young Eagles Rally at Lake in the Hills Airport (3CK)
- 9th - Chapter 461 Young Eagles Rally, see web site for location
- 10th - Chapter 1414 Pancake Breakfast/Young Eagles Rally at Poplar Grove (C77)
- 16th - Chapter 932 Salute to Veterans Pancake Breakfast at Galt Airport (10C)
- 17th - Chapter 579 Young Eagles Rally at Aurora Airport (ARR)

June

- 6th - Chapter 241 Young Eagles Rally at DeKalb Airport (DKB) 09:00 - 11:00
- 6th - Chapter 790 Young Eagles Rally at Lake in the Hills Airport (3CK)
- 7th - Chapter 241 Pancake Breakfast at DeKalb Airport (DKB) 08:00 - 11:30
- 13th - Chapter 932 Barnstormer Days Vintage Fly-in at Galt Airport (10C)
- 13th - Chapter 95 Young Eagles Rally at Morris Airport (C09)
- 13th - Chapter 461 Young Eagles Rally, see web site for location
- 14th - Chapter 1414 Pancake Breakfast/Young Eagles Rally at Poplar Grove (C77)
- 21st - Chapter 153 Father's Day Pancake Breakfast at Schaumburg (06C)
- 27th - Chapter 95 Fly-in at Aero Acres Airport (IL51)
- 28th - Chapter 579 Young Eagles Rally at Aurora Airport (ARR)
- 28th - Chapter 790 Pancake Breakfast at Lake in the Hills Airport (3CK)

July

- 11th - Chapter 461 Young Eagles Rally, see web site for location
- 12th - Chapter 1414 Pancake Breakfast/Young Eagles Rally at Poplar Grove (C77)

August

- 8th - Chapter 241 Young Eagles Rally at DeKalb Airport (DKB) 09:00 - 11:00
- 8th - Chapter 461 Young Eagles Rally, see web site for location
- 9th - Chapter 1414 Pancake Breakfast/Young Eagles Rally at Poplar Grove (C77)
- 22nd - Chapter 790 Young Eagles Rally at Lake in the Hills Airport (3CK)
- 23rd - Chapter 579 Young Eagles Rally at Aurora Airport (ARR)

September

- 5th - Morris Airport Open House (C09)
- 12th - Chapter 790 Young Eagles Rally at Lake in the Hills Airport (3CK)
- 12th - Chapter 95 Young Eagles Rally at Morris Airport (C09)
- 12th - Chapter 461 Young Eagles Rally, visit web site for location
- 13th - Chapter 1414 Pancake Breakfast/Young Eagles Rally at Poplar Grove (C77)
- 19th - Chapter 932 Planes & Puppies (Young Eagles/Animal Shelter fundraiser) at Galt Airport (10C)
- 20th - Chapter 241 Pancake Breakfast at Hinckley Airport (0C2) 08:00 - 11:30
- 27th - Chapter 579 Young Eagles Rally at Aurora Airport (ARR)

October

- 10th - Chapter 241 USO Hangar Dance at DeKalb Airport (DKB) 19:30 - 23:30
- 10th - Chapter 461 Young Eagles Rally, visit web site for location
- 11th - Chapter 1414 Pancake Breakfast/Young Eagles Rally at Poplar Grove (C77)
- 25th - Chapter 579 Young Eagles Rally at Aurora Airport (ARR)



1414.eaachapter.org



www.eaa579.org



www.eaa241.org



www.eaa461.org



Visit the chapter websites for more information about each event.

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