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|-----|------|---------|---------|---------|---------|---------|--------|--------|-------|
| FT | 3000 | 6000 | 9000 | 12000 | 18000 | 24000 | 30000 | 34000 | 39000 |
| BRL | 1937 | 2221+18 | 2315+12 | 2613+07 | 9900-09 | 2407-20 | 202134 | 183444 | 16435 |
| DBQ | 1922 | 2229+16 | 2330+11 | 2426+05 | 2418-08 | 2120-18 | 242633 | 223343 | 20365 |
| DSM | 1919 | 2128+18 | 2234+11 | 2331+05 | 2214-10 | 2706-19 | 212334 | 203444 | 20355 |
| MCW | 1709 | 2121+16 | 2438+11 | 2534+04 | 2528-09 | 2332-19 | 203434 | 204844 | 19545 |
| JOT | 2229 | 2215+18 | 2106+13 | 2706+06 | 3205-09 | 9900-19 | 211433 | 182544 | 16345 |
| SPI | 2028 | 1921+18 | 1911+12 | 9900+06 | 3611-10 | 3408-20 | 191034 | 161745 | 14425 |

Winds Aloft

June 2016

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Ryan and Paul Sindberg presented their home-built ADS-In receiver to the chapter at our last meeting. It has been successfully tested. See the article further down.

CALENDAR OF EVENTS

LITH Airport Expo and 790 Pancake Breakfast – Sunday, June 26 – Lake-in-the-Hills Airport all you can eat Pancake breakfast. Adults \$7.00, kids 5-12 \$4.00, and under 5 free. Includes sausage, eggs and pancakes, along with coffee, milk and orange juice. There will also be a free airport expo happening at the same time, so you can learn more about our airport and its services.

General Meeting and Grilled Dinner - Tuesday June 28, 6 PM at the LITH Airport in the NIFC Building – “Fermilab and Modern Physics” - Grilled items will be available beginning at 6 PM, and bring a dish to pass. The general meeting starts at 7 PM.

Paul Ranieri will be our guest speaker. He has been an engineer with Fermilab for the past seven years in the Direct Digital Controls group. Paul's presentation will include the history of the laboratory and fun facts about the lab and the nine square miles of land on which it resides. He will also discuss some of the phenomena that makes quantum mechanics and high energy physics research so bizarre and interesting. After covering the lab's past experiments using the Tevatron collider, Paul will talk about the new experiments in neutrino research that are presently under construction. Please bring a guest, especially anyone you know with an interest in science.

Young Eagles Day – Saturday, July 2 at LITH Airport, 8:00 a.m. until noon. Our Chapter members donate their time and aircraft to provide these free rides to kids between the ages of 8 and 17 as a way to introduce them to aviation. As there are no reservations, and slots fill up quickly, so an early arrival is encouraged. A parent or guardian must be present to sign a waiver.

Board Meeting – Tuesday, August 2, 7 PM at the LITH Airport in the former NIFC Building – All chapter members and interested parties are invited to attend. (We are not holding a July board meeting.)

RYAN SINDBERG BUILDS ADS-B RECEIVER



We learned at May's meeting that using plans recently published by the EAA, Ryan, 15, and his father Paul Sindberg have constructed an ADS-B receiver and that they've tested on Paul's Android smartphone running a pilot navigation app known as Droid EFB (Electronic Flight Bag). The test, flown in granddad's Ole's Prescott Pusher, was successful in displaying nearby airborne traffic as an overlay to the Droid EFB's moving map display, but there was some work to do to get the app to display weather radar.

The receiver Ryan built uses a miniature PC only a little larger than the outline of a business card, along with two radio receivers each of about size of a thumb drive. In fact, the whole unit will fit neatly into a housing smaller than a box of movie-theater candy.

Run from a USB power source, it is equivalent to the Stratus ADS-B In receiver which first debuted only a few years ago for a grand. The EAA's version built by Ryan costs only about \$125 in parts, and the software can be downloaded from the internet for free, courtesy of its developer, Tom Charpentier.

Ryan and Paul said that they will likely be taking the next step, which is building a proper housing for the receiver. In fact, the housing will be about five times smaller than the battery Ryan used to power the receiver, but it will soon likely be replaced by a cable that can plug directly into a USB charging port in the Prescott Pusher's instrument panel.

PRESIDENT'S LETTER

Dear 790 Chapter Members and Enthusiasts,

It has been a little over a month since our chapter transition began and now that the dust has settled, I would like to share with you some of the new and exciting changes that have taken place. I would also like to discuss our upcoming chapter activities that will be occurring over next few weeks. As you may know, Elton has decided to concentrate his time and effort in other areas of his life and as a result I, have assumed the role of your President- at least, until the next election this fall. We are all grateful to Elton for the time and dedication he gave to 790 and I can tell you just from being president for the past 5 weeks that Elton's 5+ year term was no small task; so thank you Elton.

The Board has asked Jeff Dingbaum to be Vice President and Jeff has enthusiastically accepted. Jeff will make a great addition to the leadership team and he brings with him a host of new Ideas. Jeff has also started a new airplane build project at his home, but I'll let him tell you about that...Perhaps a workshop visit in the near future???

Another change that has been implemented by the leadership team is a new requirement that all members of the Board shall hold a Chairperson position that is responsible for one recurring 790 aspect or activity. What this basically does is help to spread some of the workload and creates a single point of contact for each aspect/activity. Of course we will

still collaborate on these topics and would like as much member input and support as possible. The assigned positions are as follows:

- Paul Ranieri - President, Young Eagles with Bud Herod as acting Co-Chairperson
- Jeff Dingbaum - Vice President, TBD
- Lon Danek - Treasurer, Pancake Breakfast
- Mike Perkins - Secretary, Newsletter with TBD Co-Chairperson
- Ron Liebmann - Board Member, Monthly Pre-Chapter Meeting Meals
- Ole Sindberg - Board Member, Holiday Banquet, Chapter Fly-Outs and Shop Visits
- Tom LeGates - Board Member, Webmaster

All chapter members should feel free to reach-out to any of the appropriate Chairpersons if they have any suggestions, ideas or concerns. I believe this is the membership's chapter and the leadership is here to serve you so please let us know what we can do to make 790 better for everyone. I would also like to remind you that the Board meetings are open to all members and we will be holding them every other month instead of monthly. The dates will always be posted in the calendar on the chapter website.

Lastly pertaining to the business of 790, we will be holding our elections for the 2017/2018 term this coming fall. All four leadership positions will be open so I would encourage anyone interested to let me know ASAP.

On to the fun stuff...

Our annual chapter Pancake Breakfast is this coming Sunday (6/26) and will be in conjunction with the airport open-house so we are expecting a record crowd. That said, **we need your help!!!** We have always had great participation turn-out from the chapter and we hope this year will be no different. We will be setting up on **Saturday from 9:00 until 12:00** and the breakfast work will begin on **Sunday around 7:00**. We need your help both days if possible. Lon has done a phenomenal job organizing the event in a short amount of time so we are set for supplies but we do need man/woman-power. I also want to mention that Rob Nelson has been wonderful with securing eight paid sponsors and plastering the region with signage and marketing; I hope we have enough room for the crowd ;) Wouldn't that be a great problem to have?

After the weekend, we meet on Tuesday for our June monthly meeting. Ron will be grilling up dinner around 6:00 so bring a dish to pass, your appetite and a few bucks for the cause. I will be giving a presentation on "Fermilab and Modern Physics," a description of which you will find on the chapter website. Please remember we encourage all members to bring a guest.

On a personal note, I want you to know that I am honored to be the chapter President and that it is a responsibility I take very seriously. It is very important to me that all members of the chapter feel welcome, appreciated and that their voices are heard so please let me know if there is any way I can make 790 better for you and all members. Thank you for the opportunity and your support, I shall do my best to keep it.

Best Regards,
Paul Ranieri

PERU, ILLINOIS – A GAGGLE OF REALLY NEAT WARBIRDS

- Mike Perkins

Turning final on arrival in our diminutive Kitfox, Mary and I were a little curious about what was going to happen to that wedge of Navy SNJs also turning inbound for final. I considered yielding, much like a loafing golfer in front of a stack of impatient businessmen taking in a quick nine between lunch appointments. But I decided to hold my ground. Eventually on short final the radio would give us a clue they were going right. Later we would find out that the airport never closed that day, not even during the streams of fly-bys like this one. Instead, if there was traffic the formation would simply saunter over to the runway's starboard side and just breeze on by. All the while somewhere on the ground Ron Liebmann was pushing around blue and silver ladies with his tug.



Brad Deckert, the same gentleman flier who brings his Avenger to several dozen small Midwestern events each year, was the event's top-side sparkplug. Some folks in-the-know think maybe next year this event, if repeated, might pop up on the fed's blue screen. I truly hope it doesn't. It was just perfect the way it was. I even got my face to peel a few days later as practice for a full summer of aviation fun. But here, Brad created something that was like a circus to an eight year-old. For a fleeting moment I thought of running away with it.



Ten thundering Avengers, all in their sailor's uniforms, one with a blown jug trailing smoke, a growling P-51 in glinted aluminum, and a colony of T-6s. That's what the fliers and general public alike were treated to. And they responded by comfortably roving, toddlers and all, among cavernous hangars, bomb-racked wings, 13-foot propellers, and free pie.

Brad even managed to call up a Douglas Skyraider that spontaneously became a backdrop for many veterans who parked

themselves in lawn chairs along its leading edges, wearing flag-adorned caps testifying their service.

This was one of the few times when the resident P-51s' sonorous songs didn't seal everyone's pulse. Something else did. Our combined hearts were taken by continuous choreographed stream of Navy passes, topped by a missing-man fly-by, all scripted to a PA narrative from a gifted man standing on a flare-height scissors-lift platform. To the finale, the crowd reacted visibly with salutes and hand-covered hearts. No one moved for a very long time afterwards. For me, even OSH's warbird afternoons were exceeded – almost tangible, like you could touch it, was an unsurpassed sense of extreme sacrifice. I reached for my hankie.

I don't know what Brad had in mind when he originally conceived this event. But whatever it was, patriotism was heaped in spades upon those who came to honor those who gave of themselves to keep the rest of us free.

CONTACT US

For information on our chapter or any events, please call Paul Ranieri at (847) 997-0135 or Mike Perkins at (847) 530-6711.