



THREE ZERO NINER

September 2006

Meets every 3rd Monday in Charlotte, NC

EAA Chapter 309 was founded in 1973 by a small group of aviation enthusiasts. Since that time, the membership has grown in size and experience. Members come with a variety of skill and experiences. Current members have aviation backgrounds ranging from student pilot all the way to Air-line Transport Pilot. Several are A&Ps and all share a love of aviation. Membership is open to anyone interested in aviation and learning about the construction of Experimental Aircraft.

Chapter 309 is planning to build a home at Gastonia Municipal Airport. Chapter activities include visiting member projects, seminars, fly-ins, Young Eagle Flights, and a good dose of Hangar Flying!



August Dinner Meeting

Thane States invited the chapter to visit his RV10 Project that he is building at his home. The RV10 is Van's latest kit plane which features a large roomy, 4-seat cabin, and is normally powered by a Lycoming IO-540 engine.

Thane has built the empennage and wings and much work has been done on the fuselage. Surprisingly, the RV10 features a fiberglass cabin roof (there are certain shapes that are better done in fiberglass!). We were very impressed with the quality of the work Thane has put into his RV10. Also, the latest documentation from Van's aircraft kit factory is outstanding - using the latest technology to produce an excellent builder's manual and prints.

We had a good turn out of around 30 members and guests. Thanks to Thane and Cindy for hosting the project visit, great pizza and refreshments! Thane wrote after the meeting "Thanks it was a pleasure. I think it will help my wife to understand a little better what we are all about and why aviation is so important to all of us. She still can't understand why I get into it so much."

Travel Stories Destination Ocracoke

by Tad Sargent "Stripes"
EAA 309

My wife and I joined Ron and Cathy Schreck at Ocracoke for the Labor day break. We left after Ernesto did and arrived on Saturday around 12:00pm. Total flight time each way in an RV is just under 1.3 hours.

I have always wanted to go to

the Outer Banks but the 6 plus hour drive made up most of the excuse not to. Arriving in Ocracoke you land just over the dunes. Make sure you have enough fuel to depart as non is available there. Next call your Inn keeper for a lift to your accommodations. Or if it is just lunch you want, call Howard's Pub and they will send the electric stretch limo (golf cart) to get you. Howard's is a local in-

(Continued on page 7)

President's Corner by John Wigney

Your president regrets that he has missed several chapter events over the last few weeks due to a trip to the UK followed by a week in the mountains. My only aviating has been in US Airways Airbuses to London Gatwick and back. I am looking forward to flying my trusty Europa again and getting back into the swing of chapter activities.

Reminder!!!

The September Dinner meeting will be at Avworks on Monday, September 25. See map on last page.



309'ers WEB SITE www.eaa309.org

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2006



**Chapter 309
Charlotte, NC**

YOUR NAME

Contact Earl Fortner for your Name Tag!
Phone or e-mail Earl at 704-455-5326 or
efortner@vnet.net

Here's the schedule of upcoming Dinner Meetings planned for EAA 309. Go ahead and mark your calendars so YOU can BE THERE - EVERY THIRD MONDAY OF THE MONTH beginning at 7:00 pm

- Monday, September 25 (**note change!**) - Tour of Michael Moore's Aircraft Engine shop in Mooresville.
- Monday, October 16 - Tour of Neal and Sam Stewart's Skybolt Biplane Project.
- Monday, November 20, Meeting with Gastonia Aero Club at the Gastonia Airport - Presentation on Aircraft Clubs and Partnerships.
- Monday, December 11 - EAA 309 Christmas Party at the Acropolis Restaurant in Cornelius.

If you have a suggestion for an upcoming speaker or tour, please let Kevin Cromie know! We need your suggestions and ideas for programs in 2007!



September Fly Out

by Ronnie Brown

Above is a picture of Terry Davies Velocity over my canard as we joined Les Kanna, Sara Forrest, Tad Sargent, Randy Utsey, Steve Glasgow, Bill and Nora Repucci, Ravi and Lopa Thakkar, John and Libby Schroeder, Bob and Barbara Perkins with

guest , and Thane States at the Runway Cafe. This is a great restaurant located on the ramp at Blue Ridge airport at Martinsville, Virginia.

The weather was rather hazy early in the morning, but the summer sun improved the visibility toward noon, in time for our departure for the North Carolina Air Museum <http://www.ncairmuseum.org/> located at the Asheboro, NC airport. Well, there were clouds over Greensboro and Asheboro with bottoms around 5500 and tops a bit above 6500. Nora and Lopa missed the fantastic view of flight in and around the clouds!

At the museum, Bill had arranged a group discount (\$3 instead of the normal \$5) admission. The museum features a gift shop adorned with close to 100 aircraft models hanging from the ceiling, a great variety of T-shirts, leather jackets, and other aviation related memorabilia.

For the tour of the museum we were led by military aviation veteran who had flown KC-97 refueling aircraft. This is a nicely done museum featuring a couple of Beech 18's, an AT-6 Texan, a Stearman, and several other beautiful warbirds.

One of the hallmark's of the NC Aviation Museum is the "Carolina Girl," a fully restored and air-worthy B-25 Mitchell Bomber. The B-25 was one of the most famous aircraft of World War II. These medium-sized bombers were capable of carrying 2,400 - 4,000 pounds of bombs. The B-25 was also used by Jimmy Doolittle in the raid over Tokyo during WWII. The museum's B-25 is a work of art!

Attendance at this Fly-Out was limited by the very hazy conditions - but those that attended had a great time. We are looking forward to next year's destination! Thanks Bill and Dale Ensing for setting this event up!

Chapter Officers

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704.664.4167

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704-366-8529

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**Young Eagles
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Technical Counselors:
**Kent Ashton, Neil
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and Glenn Babcock.**

Flight Advisors:
**Dale Ensing & Ronnie
Brown**

**Newsletter & Web
Page
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Monday, August 21. Project Tour of Thane State's RV -10. Pizzas for Dinner - let us know you are coming so we can have enough food and drinks. Starts at 7:00 pm.

North Carolina:

9/15/2006 - 9/16/2006 Asheboro, NC -- Aerofest 2006 Fly-In & Pig Pickn'-Good Food & Good Fun!!! EAA 1176 -Smith Airpark (25NC) Email: buttonwoodcurb@yahoo.com

9/16-17 - Salisbury, NC - EAA 1083 Fall Fly-In Day . Rowan County Airport (RUQ). Special Theme this year is Sport Pilot/ Light Sport Aircraft. Web: www.eaa1083.com

9/23/2006 Farmville -- EAA Chapter 960 Fall Fly-In at N08. Come see us for lunch, 10:00 until 2:00. (No fuel on field). E-mail: webmaster@eaa960.org
Web: www.eaa960.org

9/30/2006 Wilson -- EAA Chapter 1047 Annual Fly-in
E-mail: John.Slatner@GE.com

9/30 - Fourth Annual Long Island Airport Fly In - Sherrils Ford, NC - friendly fun and fellowship of a traditional fly-in and genuine splash-in. All types of aircraft are invited to attend. The airpark has a 3000 x 120 ft grass strip. Handicapped kids are invited for airplane rides. FMI Call Bob Perkins at 828-478-2049

9/30/2006 Albemarle, NC -- First Annual Albemarle / Stanly County Fly In , Albemarle/Stanly County Airport (VUJ).
10:00am-4:00pm

10/14/2006 - 10/15/2006 New Bern, NC -- New Bern MumFest Fly-in. Email: kendaub@cox.net
Web: www.EAAChapter1711.org

10/15 - Wings Over Wayne Airshow at Seymour Johnson Air Force Base - Goldsboro, NC. 9AM - 4 PM

10/21/2006 Louisburg, NC -- Ball Airport (79NC) Annual Fly-In

Saturday, 9/30 - Long Island Airport Fly-In - Near Sherrils Ford, NC (NC26) barbeque, hangin' out with other feathered friends, overnight camping, etc. The coolest part is that handicapped kids are invited to come for airplane rides. Call Ross Gresley or Bob Perkins for more information.

11/4/2006 Goldsboro, NC -- Wings Day Fly-In at the Wayne County Airport (GWW), Goldsboro, NC. Light Sport/GA air-

Mark your Calendar

See www.eaa309.org/309mm.htm
for 2006 Schedule

craft displays, vendors, etc. Email: tffreeman@dot.state.nc.us
Web: www.faasafety.gov

Saturday, November 4 - EAA Chapter 309 Fall Fly In at Lincoln County - 10 am - 4 pm. Hotdogs and Hamburgers, Young Eagles. Email rtdive@alltel.net

South Carolina:

9/24/2006 Barnwell, SC -- South Carolina Breakfast Club, Barnwell (BNL). Email: jack@fly4fun.org

10/6/2006 - 10/8/2006 Camden, SC -- VAA Chapter 3 Fall Fly In Woodward Field (CDN)
Email: eiwilson@homexpressway.net

10/8/2006 Darlington County, SC -- South Carolina Breakfast Club, Darlington County(UDG). Remember Our Motto: "Safety First."
Email: jack@fly4fun.org

10/6-8 - Camden, SC -- VAA Chapter 3, Fall Fly In, Woodward Field (CDN) Email: eiwilson@homexpressway.net

10/20-22 - Bishopville, SC -- Carolina Sport Flyers Annual Fall Fly-in, Lee County Airport (Butters Field 52j).
Email: patches11us@yahoo.com

These events were downloaded from

THE Southern
Aviator
online edition



More on Page 8.

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EAA 309's discussion group

By Ronnie Brown

I have been trying for about 6 months to do a story on our chapter's discussion group. In 2005, Fred Darnell created a discussion group at Google and added everyone's Email to the group. Here's a description of the purpose of discussion groups from Google:

"Google Groups is a free service which helps groups of people communicate effectively using Email and the Web. Every group has a home page hosted by Google where members can start new discussions or reply to older topics.

Every group also has its own Email address to help its members stay in touch with each other. Members can read and search all public Google Groups content, including more than 1 billion postings from the Usenet bulletin board service, dating back to 1981. Every group has its own Google-fast search, making it easy to find discussions locked away deep in your group's archive."

You can access our group at www.groups.google.com/group/ea309. Our group's Email address is ea309@googlegroups.com

I would like to encourage everyone to start using this group to discuss chapter issues, ask questions about building, restoring and flying aircraft. We have a lot of knowledge and expertise within the chapter - you can get an answer to just about anything.

You can also customize how you receive messages from the EAA 309 Google group. You can receive each message as they are posted to the group, or get a digest daily of messages, or decide that you do not want to receive any messages. But you can see all of the messages at any time by logging onto the discussion group.

One precaution - try to remember that when you post, you are posting to many folks - so try to limit discussions to topics of interest to other chapter members. One fault of Google Group messages is the fact that if you hit "reply", it appears that you may be replying to the message's author, when in fact the message is being sent to the group.

If you need to reply to the author of the message, be sure to delete the "ea309@googlegroups.com" from the addressee area and enter the correct Email address for the person you are replying to. Another feature that might be useful to folks that have slow internet connections is to not have any of the Google group's emails sent to you directly, but rather log onto the Googlegroups web site to view messages. This way, thumb nails of photos can be accessed at the web site. If you want to see a large version of the photo you can click on just the photos you want to see rather than suffering through a long download times associated with lots of photos.

I will try to reserve sending direct emails to chapter members for chapter business and announcements. We can use Google Groups for all other miscellaneous communications - like photos, interesting web sites, etc. If you are not currently on the Google Groups list, please send me or Fred Darnell an Email and we will add you to the group.

WANT ADS

Ken Poindexter owns Carolina Sport Aviation, a Quick-silver dealership located at Lake Norman, NC that specializes in light sport aircraft which are amphibious or just on floats. He can be reached at 704-226-8260.

Gastonia Aero Club Membership For Sale PA-28 180, C-172, C-182 All IFR Certified \$3,300.00. The least expensive way to fly in the Charlotte area. Contact: Jonathan Bissette @ 704-853-0607 or via e-mail jonathanbissette@bellsouth.net

FOR SALE - 1/4 Share 1995 Bonanza A-36. 2450 hrs AF, Zero time 300 hp Cont Engine, leather interior, like new paint, tip tanks, KLN90B GPS, Argus moving map, King KX155 Nav/Coms, King autopilot, storm scope, ADF and DME. \$75K. Call Conni at 704-875-1200.

Hanger spaces for rent @ Lake Norman Airpark (14A), \$220, call Conni at 875-1200.



Don't forget Sid Morris' North Harbor Club for a wonderful lake side dinner. Located at Exit 30 on I-77

Own your own Beech Starship!!!

One of the last remaining flying Starships has come up for sale. NC-50, tail number N8285Q, is currently owned by a private owner in California. Its sale is being brokered by a company in Texas. Offers are being entertained in the range of \$1.8M USD.

Oh well, I couldn't afford to buy it either - but there's a lot of good information about the Starship, the book Starship Diaries, even the POH is available for this rare bird!

See <http://www.starshipdiaries.com/starship.html> for more information

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UNDER CONSTRUCTION

As you can see from the following, the Chapter's RV-6 project spawned numerous projects. If you have a project underway, or are planning to get started let us know.



Hal Schwab - Sonex Project Update:

Our plans built Sonex is really coming together. All the months of fabricating parts are really paying off now in reduced assembly time. We have just finished the wings (above) and are now assembling the aft fuselage and turtledeck.

Bill Repucci - RV9 Project - I upgraded the Dynon software and everything worked as advertised.

<http://www.repucci.com/bill/panel/dynon%20talk.jpg>

How cool is that? There is so much functionality in this thing it frightens me. Remember the D100 on the left is only an EFIS and the unit on the right is only an Engine monitor. The engine alarms come across both screens and can be acknowledged from either side, even if you don't have the engine info displayed on the left side, see the attached pictures.

Remember - Chapter 309 of the EAA is now a charitable organization as defined by 501(c)3. Your donations may be tax

First Flight Plaque

EAA 309 is in the process of putting together a First Flight Commemoration Plaque. We would like to include the names of chapter members who have either restored or built an aircraft (Including ultralights) and performed their first flight while a member of EAA 309.

Known First Flights are:

Kent Ashton, Ronnie Brown, Howard Cochran, Dale Ensing, Steve Glasgow, Dick Healy, Andy Moscarelli, Mike Munn, Ron & Kandy Murray, Ray Petty, John Roberts and Les Kanna, Tad Sargent, Jim Schnicker, Ron Schreck, and John Wigney.

If your name is on this list or is missing, please provide the information below. If you had a partner, a spouse, a child, etc. who should also be honored, let me know so they may be included. If your First Flight is for a restoration, include the year the aircraft was built. For example, Howard Cochran's First Flight was in a "1946 Aeronca 7AC Champ".

Builder name(s):

Aircraft:

N-Number:

Date of first flight:

Airport identifier of first flight:

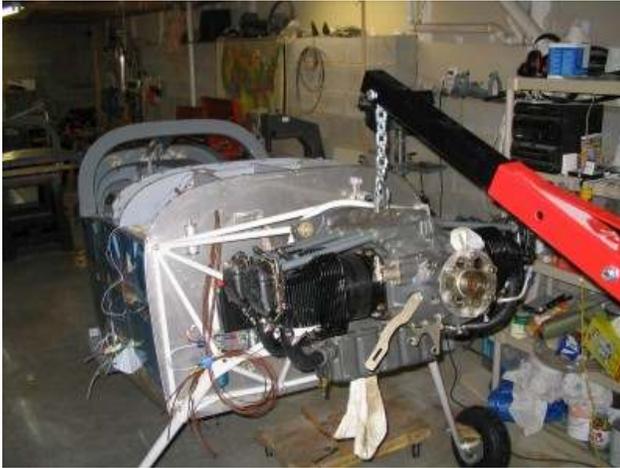
Thank you, Bill Repucci

h: 704.947.7160, c: 704.607.4572



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Bill Repucci - Vans RV9:

On Sunday, August 27th. Radomir Zaric and Tad Sargent came buy to help assemble the wheels. It turns out we installed the engine mount and gear legs. Then on Monday the 28th I hung the engine. That conical mount on the O-290 sure makes easy work of that chore. I simply had no idea the RV-9 was so tall, the prop flange is at neck height.

Although the O-290 is an approved engine for the RV-9 Vans does not sell an installation kit for this engine. Much to their credit they are working with me to develop a kit that will work. Thus I am tracking all the oddball things I'm running into.

The first issue had to do with the upper left engine mount bolt. As installed per Vans recommendation it would contact one of the push tubes and required me to loosen the #4 cylinder to install it. The solution was to turn the bolt around. You can't get much simpler than that.

The standard RV exhaust stack had to be trimmed to fit the O-290. Vans only sells only one exhaust for both the O-360 and O-320 with the expectation that it will be trimmed to fit. In fact, only two cross over tubes need to be shortened and they are marked with a cut line. This took less than an hour to cut, trial fit, deburr, and temporarily install.

Not knowing much about my engine at the time I ordered the firewall forward kit I had Vans send me a boss mount for the alternator. As it turns out, the O-290 requires a case mount eliminator bracket. Not a big deal, just another \$15 part from Vans. If anyone needs a boss mount alternator bracket for a Lycoming, let me know.

So far that only real show stopper has been limited to the

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Member Bob Cottom at Oshkosh: I'm a big ZERO for all of the chapter functions so far, but I'm still trying! I did manage to get to Oshkosh for a few days, and managed a ride in the EAA's Ford Tri Motor. Here is a view from the last seat in the house! I just sent the two kids off to college so the Waco will have to wait! Ha!



Click on GAC above to get more info.

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Technical Counselor Corner

by **Ronnie Brown**

While Mott and I were flying from Atlanta to Ft Myers last year, my alternator stopped working just after we left Atlanta. I was about ready to make a sharp left turn and head back for home when Mott said "just how long will that battery last?"

Well, Velocities have a large battery up front for ballast to meet weight and balance requirements when flying single pilot. Mine has a Big Ole Car Battery which is good for several hours although I had never really checked how long. So we kept on flying - quickly too - less than two hours with the tail wind we had!

When I arrived in Ft Myers, we went on and got a rental car and checked in to our motel. The next day, I pulled the lower cowl and sure enough, the field wire had broken off of the crimp connector on the alternator field terminal. I had forgotten to crimp twice using my cheap ole Walmart crimper. These crimpers will work fine if you remember to crimp twice - first crimp the bare wire, then crimp the area around the insulation. This keeps the wire from flopping around which will eventually lead to the wire breaking off.

The fancy ratcheting crimper normally costing \$100 features a wide clamping area that takes care of the double crimp requirement. But Bill Repucci found a ratcheting crimper at the Network Tool Warehouse for only \$17.98 plus shipping. Click on the image below to order your own and keep those crimped wires firmly in place,

And Kent Ashton reports - BTW, if you need other jaws for this kind of crimper, like jaws for crimping BNCs on RG-58/RG-400, you can buy just the jaws at Slayton Computer off of Sugar Creek Road (near jct with I-85) in Charlotte.



**CHECK OUT THE NEW TECHNICAL
COUNSELOR AND FLIGHT ADVISOR
PAGE AT WWW.EAA309.ORG**

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throttle / mixture cable bracket and Vans has said they will punch out a special one for me.

One other minor issue is the "lightweight" starter that came with the engine. Although it has never been used, it was one of the early adaptations of an automotive started for aircraft use and when installed it is less than an 1/8" from the exhaust crossover tube. This will have to be replaced with new, smaller, lightweight starter. Once again, if anyone in the chapter needs a 122 tooth Lycoming starter they are welcome to contact me, I'm sure we can work out a very favorable deal.

Beyond the engine, the panel is almost complete. The only thing left to wire is the iCom radio and the only reason that isn't finished is because I've been playing with the engine.

I do need one item from the chapter. The foam and leather for the seats has been procured but do not know where to go to have them stitched up. Any recommendations would be appreciated.

(Continued from page 1)

stitution and is the first place you pass when heading towards the island village. If you want to get around bikes are available for rent for \$15 a day.

Walking is also allowed and everything is just 1/2 mile away.(inside joke) The village is surrounded by the National Seashore and no more building is allowed outside the existing footprint. Wild ponies live at the north end of the island. We did not make it there as it was, you guessed, too far or rather longer than 1/2 mile away.

The marina is crescent shaped and the ferry comes and goes throughout the day and is the only way the other folks can get there as there are no bridges. During the day we went to the beach or rode bikes around shopping or just taking in the sights. The Ocracoke lighthouse is the plainest of the group but still working and maintained by the Coast Guard.

Rooms can be had from \$70-130 per night and as you might expect food is more than typical as it needs to be shipped in. We were joined by Scott and Ming Keedle who met us on Sunday and ended up staying the night returning home Monday morning.

Sunday we flew to First Flight to see the Wright memorial. This was well worth the travel time of 20 minutes. What a great feeling standing in the same spot where two guys spent a few years tinkering in their garage and building an airplane and me reflecting on the similar achievement (sort of). My first flight was slightly longer than theirs though.

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Terry and Tad Sargent

(Continued from page 7)

The weather was great as Ernesto took the cloud cover with him as he blew out of town. It is amazing to me the places I can get to in short order. I look forward to

Thanks to Tad Sargent for sharing their flying trip to Ocracoke. If you have a flying vacation story, even if from years back, please send me your story and we will publish it here as well as a special page on our web site!
the Editor



Tad caught Ron Schreck doing laps around the Hatteras Light House



Thane States, Bill Repucci and Lopa and Ravi Thakkar enjoying lunch at the Runway Cafe in Martinsville, Va.



Member Bill Wilson recommended a DVD that he thought I would enjoy. **Sure enough!!!!** Since I once owned an Indian Motorcycle, I decided to order my own copy of the DVD, which I found on www.amazon.com.

You should be able to rent this DVD at Blockbuster. It is an excellent story based on the life of Burt Munro, a New Zealander who had an ambition to race his Indian motorcycle at Bonneville. Anthony Hopkins stars and does an OUTSTANDING acting job in recreating this heart rendering story about one man's dream.

October 14 & 15, 2006 - EAA Chapter 186, Flyin' & Cruisin' Festival - Winchester Regional Airport (OKV). See www.EAA186.org



Membership

We Need You!

Drive 2006

As always Chapter 309 is looking for new members. This page should be removed and given to a potential member.

The form can be used to pass along enrollment information about the EAA and this chapter.

About the EAA

The EAA is for both pilots and non-pilots who are interested in the dynamic world of flight. The organization, founded in 1953, offers activities for the entire family on the local, regional and national levels. EAA also offers support programs for those who are building and restoring aircraft.

The EAA is dedicated to serving all of aviation by fostering and encouraging individual participation, high standards and access to the world of flight in an environment that promotes freedom, safety, family and personal fulfillment.

If YOU like airplanes and the people who fly them, **EAA** is for you! For only \$40 you can be a member of EAA (\$58 outside the U.S. and Canada). EAA offers something for enthusiasts of every age and interest - pilots, designers, builders, dreamers and doers - anyone who enjoys the unique freedom made possible by flight. All are welcomed into EAA's growing family.

Call the EAA Membership Department at 1.800.Join EAA (1.800.564.6322) or visit www.eaa.org



EAA Chapter 309 Enrollment Form

Name: _____ Spouse _____
Family _____

Address: _____ Membership? (Y) or (N)

City: _____ State: _____ Zip: _____

Phone: _____(H) _____(W)

E-mail Address: _____

Pilot Rating: _____ EAA Member Number: _____

Aircraft Owned(?): _____

Current Project(?): _____

Membership is open to anyone interested in aviation. Dues are \$25 per year.
Mail Enrollment Form with Check payable to EAA Chapter 309 to:

Sam Stewart
13916 Sledge Road
Charlotte, NC 28278
704-588-0776

Pass it On!

EAA Chapter 309
c/o Ronnie Brown
18816-6 Nautical Drive
Cornelius, NC 28031

THREE ZERO NINER
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NOTICE: The EAA 309 Monthly DINNER MEETING will be held at 7:00 PM, Monday - September 25 at Avworks, Inc. Located at 116 Infield Rd, Mooresville.

Directions from I77, exit 36 are :- Drive east on Hwy 150 for approx 1 mile, Turn left at 2nd stop light onto Talbert Rd. Cross over Oates Rd at stop sign. Turn next left onto Overhill Drive. Turn right onto Infield Court. AvWorks (116 Infield Court) is straight ahead on right.

Call John Wigney at 704-664-4167 for more information.

