

EAA 301 - Rocky Mountain Chapter

August Meeting:

Scott says,

"I am writing to inform all chapter members that in lieu of a speaker we will be having a plans night for the meeting this Friday, August 21st.

We're asking chapter members to bring plans, blueprints, project pictures and questions for discussion. Its an opportunity to ask for some help on your project or share something that may be of help to others.

Also, we'll be looking for updates about Oshkosh from anyone lucky enough to have attended. Please bring pictures if you have them."

- **Date:** Fri., Aug. 21st
- **Time:** 7:00 p.m.
- **Location:** The meeting will be held at the Parker Fire Station #75 (5), 16801 Northgate Dr., Parker, CO. The station sits on the corner of Keystone and Northgate, is just west of Jordan Rd. and a few blocks north of Lincoln Ave.

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President's Page

Aug 20th, 2009

Seems like I'm always learning something about air-planes and the parts used in them. The other day I was looking for the correct term to use for those so often included parts on the ends of control rods. I have been using those, checking them, fixing them and replacing them, but never really knew their true name – until I did this search. It seems those little connections consisting of a metal sleeve, often threaded, with a drilled ball pressed in the end is called a "Heim Joint".



Heim Joint or Rod End Bearing

In checking out why they are called Heim Joints, I found

that the first German aircraft shot down over England was completely disassembled and forensically gone through, where they found these joints on the control rods. The H. G. Heim Company of North America was given the first patent to make these and in the U.K., the company Rose Bearings, Ltd. was given the patent to make them.

No mention of giving the Germans a patent on it. Hmm, works out to be a Finders – Keepers rule I guess. What ever the situation with that, I find it amazing that there was so much innovation by the Germans. These little Rod End Bearings are used everywhere in small, mid and large aircraft. It is an extremely simple solution to a complex problem of twisting and bending. The pulley and cable system allows for twisting and bending and can withstand

Jim Elliott

the extra tensions and stresses. But in larger aircraft, especially in mid-sized aircraft, these are absolutely necessary to prevent early failure. In very large aircraft or an aircraft that is "fly-by-wire", the stress is relieved by having the control inputs drive motors and pistons, which are usually at the point needed to drive a device.

Even the simplest trim systems now are always equipped with these joints, just to relieve stress and keep as positive control as possible.

I wonder who it was back in Germany that sat around thinking about making a little

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Reminder!

Hangar party at Ted Lemen's - Aug. 29th - FTG 12:00 noon. Directions within.

EAA Chapter 301 Meeting Minutes

EAA Chapter 301 Meeting Minutes

July 17, 2009

Meeting was Called to Order at 7:15 p.m. by **President Jim Elliott** at the Parker Fire Station #75. He introduced the chapter officers.

Visitors:

Jim French -tonight's speaker

The **Minutes of last month's meeting** are hereby corrected to show the 99's Museum of Women Pilots is located on the second floor of their International Headquarters building on Will Rogers World Airport in Oklahoma City, OK. The minutes were approved as corrected.

Financial Report:

Treasurer **Russ Grell** stated the Chapter is "flush" with the usual kinds of expenses, and donations continue to flow in for the Young Eagles program. He filed the required yearly paperwork for the State of Colorado.

Tech Counselors:

John Linz reported that **Jim Barry** had his final inspection on his RV-10 and is ready for the airworthiness inspection.

Brian North looked at a Pietenpol and **Fred Bell's** Sonex.

Flight Advisor Report:

No report.

Progress Reports:

Lyn Langer continues work on his RV-7A and reported finding a speed shop, On Track Performance (Patterson's speed shop was also mentioned), to fabricate some hose connections. His son, an A&P, has been helping with the engine cowling and baffles.

Jim Elliott reported his Mooney is signed off, and he removed eight feet of extraneous wire from his panel.

Flight Reports:

Frank Niehus escorted a Skylane to North Carolina in his RV-7A. He also flew his RV to Challis, Idaho.

Jerry Knievel flew his RV-6A to the Arlington Regional Fly-in in Washington State. Also attending were **Chuck Spaur** and **Denis Walsh**. They took a side trip to the San Juan Islands before heading home.

Young Eagles Report:

Rudy Kniese reported 34 Young Eagles were flown in June. The next rally will be on August 8th.

Old Business:

Brian North continues to look into places to hold the January banquet (he would like suggestions).

Howie Cammack has chapter name tags, as usual (free for the first one!).

Announcements:

► The membership is encouraged share articles, personal experiences, pictures, etc. – related to aviation – to be used in the newsletter. Ed.

► If anyone is having a problem accessing the web site, contact Treasurer and computer guru **Russ Grell** (303-791-3528) and he will change your password to whatever you need. Right now, for the new folks, the *User ID* is: **firstname.lastname** and the *Password* (that should be changed at the first sign-in), is in the e-mail you get automatically from the web site.

The **Chapter Picnic** will be held at **Ted Lemen's** hangar during the Front Range Airport open house and car show on August 29th.

New Business:

Our president, **Jim Elliott**, is seeking a chapter **Webmaster** and **Newsletter Editor**. Please offer to help the chapter with these two vital roles!!!

Safety Report:

Discussion followed about an AOPA video of a Bonanza taking off over gross and crashing. **Beware of Density Altitude!**

Break:

Donuts and coffee provided by Jack Bongberg.

Program:

James (Jim) French, of Fort Collins, is an engineer who has been involved in, and is a champion for, private space/rocket flight. He has

over 60 years experience in aerospace engineering, and worked on the DC-X (Delta Clipper) project, now extinct, at McDonnell Douglas. The experiment was a vertical takeoff/landing unmanned rocket, which first flew in 1993. This was the first rocket-powered vehicle to accomplish this in atmosphere (it was previously done on the moon). Jim is very knowledgeable and enthusiastic on the subject, and shared a great concept with us. Thanks, Jim!

Meeting Adjourned at 9:30 pm.

Respectfully submitted by
Stan Specht, Secretary, EAA Chapter 301

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President's Page Continued

(Continued from page 1)

device that could bend, twist, flex and rotate all in one little package. Whoever it was, really came up with a super-duper connector.

Think about that next time you're flying your sporty plane that is equipped with control rods and give the inventor a salute of thanks for making your airplane go fast, while still maintaining control and providing a reliable system to do it with!

The possibilities are great. The time is great. The group is great. Happy Building and Flying!

Jim Elliott

BIG!



Just plane cool!



Chapter Tools

Mel Kuethe is our tool custodian. Give him a call at 303-794-3930 for your tool needs.

Scales

- Aircraft Spruce type
- Electronic/strain gauge type
- (7) - 50 LB cast iron slugs for calibration

Fire Wall Forward

- Oil filter cutter
- Tubing beadings: 3/8" & 1/2"
- Tubing bender
- Continental engine valve lifter tool
- Magneto timer
- Top dead center finder
- Tube flaring tool
- 1/2" cylinder wrench. 9/16" cylinder wrench
- Compression tester
- Bore scope
- Pliers, hose spring clamp
- Temperature measuring device (wide range)

Airframe

- Nicopress sleeve tool 53XPJ with gauge
- Nicopress sleeve tool 64CGMP without gauge
- De-burring tool
- Hole flanger - sheet metal
- Electrical connector squeezers
- Panel knock-out punches
- Rivet squeezer - w/two new die sets
- Torque wrenches (2), (large and small)
- Hose clamp pliers
- Tubular rivet set for 1/8" rivets
- Drill guide for drilling cotter pin holes through bolts

Events for 2008:

- To view all EAA events go to:

<http://www.eaa.org:80/calendar/>

FLY IN:

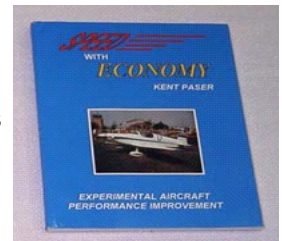
June 20 - Broomfield, CO, USA. **JAA 14th Annual Fly-In** in conjunction with The Italians of America Car Show 6 a.m. - 12 noon. Rocky Mountain Metro Airport (BJC). Registration Fee \$5.00. Italian Pancake Breakfast a.m. Trophies given in 9 aircraft classes. Drawing to be held, for fly-in pilots only, for a flight in a mystery plane to be announced. Contact Daril, Phone 303-423-9846, Email: cq7014@aol.com.

(Have a favorite? Let me know. Ed.)

Announcements cont'd on next page →

For Sale:

Speed with Economy – Kent Paser's book on speed mods. Covers 20 years of modifications to his Mustang II resulting in a 64 MPH speed increase while reducing fuel consumption by 50% at cruise. This book has won acclaim from EAA's Jack Cox and Ben Owen, Tony Bingelis, author of several aviation how-to-do-it books, and Bob Bushby, designer of the Mustang II. Price is \$24.95 plus tax and shipping. Available at Chapter 301 meetings or call 303-904-3417 or e-mail paserpubs@mindspring.com to place your order.



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(This advertisement made possible by a donation to EAA 301.)

Announcements cont'dChapter Dinner - January 2010**Message from Brian North:**

It is intended to hold a Chapter dinner in January, 2010. Before proceeding with the planning, members are invited to give me their views on what cost per head would be acceptable and also on venues that can be considered. Ideally we are looking for somewhere central and easily accessible that can accommodate 50-60 persons in comfort, with spare capacity to be taken up if needed. I will follow up on the suggestions to get the best deal we can on price and quality.

If there is anything else you might think helpful in connection with the proposed dinner, I would appreciate your thoughts.

Brian North (303 805 9428) briannorth2@hotmail.co.uk

EAA 301 Hangar Party – August 29th

Location: Ted Lemen's hangar at FTG (Front Range Airport). Upon entry to the east hangars off Front Range Pkwy, turn east on 51st, go to the hangar row just east of the Mitsubitshi repair hangar and you'll see the cookin' and the happ'nin'. There may be some pilots there, too.

Advertisements

Hangar space: John Barrett would like to find someone to share his hangar space with his J-3 at Tri-County for approximately \$110.00/month. Smaller low-wings work the best, but he will consider others. Contact John at: 303-934-1332 (Ext. 31); Fax: 303-934-5756; Email: john.barrett@lwbarrett.com

Looking for partner: ½ share in almost complete Mustang 2 project. Mazda 13b Rotary engine, 2.85:1 redrive, redundant ECU, electronic engine monitor, 250XL GPS/comm, etc. Project at 'finishing' stage – hope to be flying by fall. Based at 00V (Meadow Lake – north east of COS. Could relocate to APA or Front Range). Contact: Mark Supinski (mark@supinski.net).

C: 720-272-5563

H: 303-841-2994

POLY-FIBER HAS NEW FABRICS: Heavy-3 and Medium-3 Dacron that now shrink the same in both directions are now available. Also, Ranthane, a high solids polyurethane finish paint is now usable under the Poly-Fiber STC as well as Aerothane and Polytone. These products are available through Colorado Classic Aircraft.

Colorado Classic Aircraft in Longmont Colorado (www.coloradoclassicaircraft.com) has been a stocking distributor of Poly Fiber covering materials since 2002 and is now providing fabric covering and painting services. Owner Carol Leyner was Director of the Rocky Mtn. Fly-In for many years and has been a participant at the Montana Aviation Conference presenting Fabric Covering Seminars for the AI refresher courses. We have recently completed recovering a KCAB Citabria after replacing the wood spars with aluminum spars. cca@hughes.net or toll free at 1-888-600-5222.

For sale: Lycoming O-235 C2C, Logs, Receipts, yellow tags. OSMOH by Ron Denight. Contact: Darl Cinquanta – (303) 423-9846



EAA 301 - Rocky Mountain Chapter
www.eaa301.org

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First Class

Chapter Mission:

To Promote and Encourage the Restoration, Construction, and Safe Operation of Sport Aircraft.

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Submission of articles for publication in the newsletter, comments, or inquiries are encouraged.

Meetings are normally held on the third Friday of each month at 7:00 PM. Current location is: **Parker Fire Station #75 (5), 16801 Northgate Dr., Parker, CO. The station sits on the corner of Keystone and Northgate and is just west of Jordan Rd. and a few blocks north of Lincoln Ave.**

Current Officers:

President: Jim Elliott (303-840-2199)
Vice-president: Scott Wiseman (720-427-5037)
Secretary: Stan Specht (303-232-8474)
Treasurer: Russ Grell (303-791-3528)

Board of Directors:

Jim Elliott (303-840-2199)
Ted Lemen (303-985-3684)
Lynn Schwankl (303-431-0270)
Mark Brown (303-797-3515)
Denis Walsh (303-756-6543)

Technical Counselors:

Bill Marcy (303-798-6086)
Kent Paser (303-904-3417)
Terry Sickler (303-816-2090)
John Linz (303-771-0685)
Brian North (303-805-9428)

Volunteer Officers:

Librarian: Jack Bongberg (303-671-6095)
Tool Custodian: Mel Kuethe (303-794-3930)
Newsletter Editor: Lynn Schwankl (303-431-0270)

Refreshment Chairman: John Tedder (303-663-7851)

Flight Advisor

Ted Lemen (303-985-3684)

Webmaster

Young Eagles Leader

Rudy Kniese (303-841-7180)