



Special points of interest:

- **Wednesday March 28th—Monthly Meeting**
- **Tuesday April 10th (week later) Chapter Board Meeting**

Volume 2012 Issue 3
March, 2012

President's Message



If April showers bring May flowers what do March winds bring?

Lots of problems if you are not careful. Oh, we are ever mindful of crosswinds, gusts, downdrafts, updrafts, even wind shear! BUT! how about the tie down security where you leave your favorite ride? No, I'm not talking about TSA stuff.



A few years ago we had a wind storm come through the area and lost several conventional geared aircraft and a couple of sailplanes. It dawned on me that they all shared a common feature. All of these aircraft tied down with a high angle of attack to the ground (and relative wind). When unmanned all of these aircraft were ex-

tremely light and the lift produced by their wings (which were nearly at maximum coefficient of lift)

was incredible. A quick calculation of the basic equation of lift

$$L = C_l \rho / 2 V^2 A$$

showed why tie downs and tie down ropes failed. The max **C_l** of many general aviation aircraft is around 1.7, the **ρ** or **rho value** at 1000 asl is .002367, if the **wind velocity** is 60 mph then the Velocity squared in fps is 7744, if we use a **wing** of 170 square feet and work the formula then we find that our unmanned aircraft is lifting **2583 pounds of lift**.

I have seen a 90 mph gust in the Midwest that would yield a lift factor of 5816 lbs. **Are your tie downs capable of this kind of force?**

The easy fix is to inspect the tie downs and make sure the ropes are in good shape and most

Glenn Research Center

Modern Lift Equation

$L = C_l \rho \frac{V^2}{2} A$

Lift = coefficient x density x velocity squared x wing area
two

Coefficient **C_l** contains all the complex dependencies.

important is to **use a tail stand** and reduce the angle of attack when tied down. We put our gliders with the tail on a hillside and reduced the angle of attack to zero (**C_l= .4**)

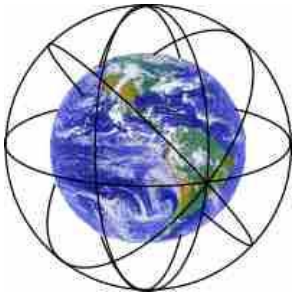
In our 90mph example above, that would reduce the lift to under 1400lbs from 5816. We had lots of high winds after that but never lost another sailplane.

Happy flying (and secure tie down)

fjs

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March's Program -- Larry Denning on "GPS Basics"



This evening, our speaker will be **Larry Denning**. He will present "**GPS—Basics**". Make your reservation and attend this enlightening presentation.



About the Presenter

Larry Denning is our speaker for the March, 2012 meeting. His wife **Janie Denning** will be attending our meeting. Ralph Schmude refers to Larry as "**Local Boy Makes Good**".



Flew helicopters on pipeline surveys.

Larry has 26,00 hours and 4,000 hours of instruction.

He has flown B25 for St. Louis chapter of Confederate Air Force, Ford Tri-motor, "Save A Connie" Super G Constellation for 8 years and their chief pilot for 5 years.



Larry graduated from North Kansas City High School in 1962

He was flight instructor for Cotton Woods, CBI, University of Missouri and ROTC aviation cadets.

Larry attended UMKC Dental School (located across the street to TWA) for 3 years.

Don't add up the following because he is not that old:

Pilot: 49 years
A&P: 40 years
AI: 25 years
Flew airlines: 39 years
37 yrs with TWA
2 1/2 with American

MPA KC Chapter Officer Nominations

The nominating committee comprised of **Frank Taylor**, **Ralph Schmude** and **Al St. Germain** will be presenting the following:

President: **Fred Schieszer**
Vice-President: **Barbara Turk**
Secretary: **Tom Eagle**
Treasurer: **Terrie Jo Fox**
Director: **Gary Fox**
Director: **Ralph Schmude**
Director: **Mitch Stafford**

Director: **Al St. Germain**
Director: **Frank Taylor**
Director: **Penrod Turk**
Parliamentarian: **Penrod Turk**
Membership: **Ann Taylor**
Safety: **Chris St. Germain**

Timeline:
Presented in March.
Voted in April.
Installed in May.
First Meeting in June.

MEETING MENU:

- Pulled Pork
- Baked Beans
- Cold Slaw
- Fruit Medley

Reservations:

Email Terrie Jo,
Terrie@Foxware.com
 or Call
 816-525-3592
 (home) or
 816-985-5406
 (Gary's Cell) by
 Monday **Mar. 26**

Future Meeting Dates

- April 25—FAA Appreciation
- May 23
- June 27
- July 18—Week earlier because of Oshkosh AirVenture

We are looking for suggestions of speakers for upcoming meetings. You suggest, we invite and all will enjoy

Calendar of Events (## indicates KC local)

- Mar. 25th** Council Bluffs, IA. Council Bluffs Municipal ([KCBF](#)). Great Plains Wing CAF 2nd Annual Chili Fly-In. Commemorative Air Force Great Plains Wing 2nd Annual Chili Fly-In and open house
- ##Mar. 28th (4th Wednesday***)** Membership Dinner Meeting, 6 PM, HY-VEE at Noland Rd & 40 HWY - **Larry Denning**
- ##Apr. 10th (one week later)** MPA Chapter Board Meeting, 7 PM, Executive Beech Hangar, Downtown Airport. All members are welcome. Your ideas and input are valuable. Fred Schieszer, FSchieszer@sbcglobal.net
- ##Apr. 25th (4th Wednesday)** Membership Dinner Meeting, 6 PM, HY-VEE at Noland Rd & 40 HWY—**FAA Appreciation**

CHECK CALENDAR AT www.MOpilotsKC.org/calendar FOR LATEST EVENTS AND UPDATES.

OUR OWN WEBSITE! The Kansas City Chapter of the Missouri Pilots Association (MPA) has its own website. Please visit early and visit often at www.MOpilotsKC.org (capital letters not required). **Tom Eagle**

" Meeting NEXT
 Week - March
 28th
 April Meeting -
 April 25th "

Kansas City Chapter of Missouri Pilots Association

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Blue Skies

Advertisements

NOTAM: The OJC runway will be completely closed for pavement reconstruction each night, Monday thru Friday, from 7pm until 7am the following morning. These nightly closures are expected to last until approximately November 22.

For advertising in this space, please contact Terrie Jo Fox at Terrie@Foxware.com or 816-525-3592.

Gary and Terrie Jo have been retired for 6 months! They can be reached at home, 816-525-3592 or Gary's cell, 816-985-5406.

The old Foxware number will ring at former employee Terry Brown's place of business if you need computer service, 816-795-7233

Terry-
TheTech@comcast.net