



From the Front Seat

Steve Beste, President

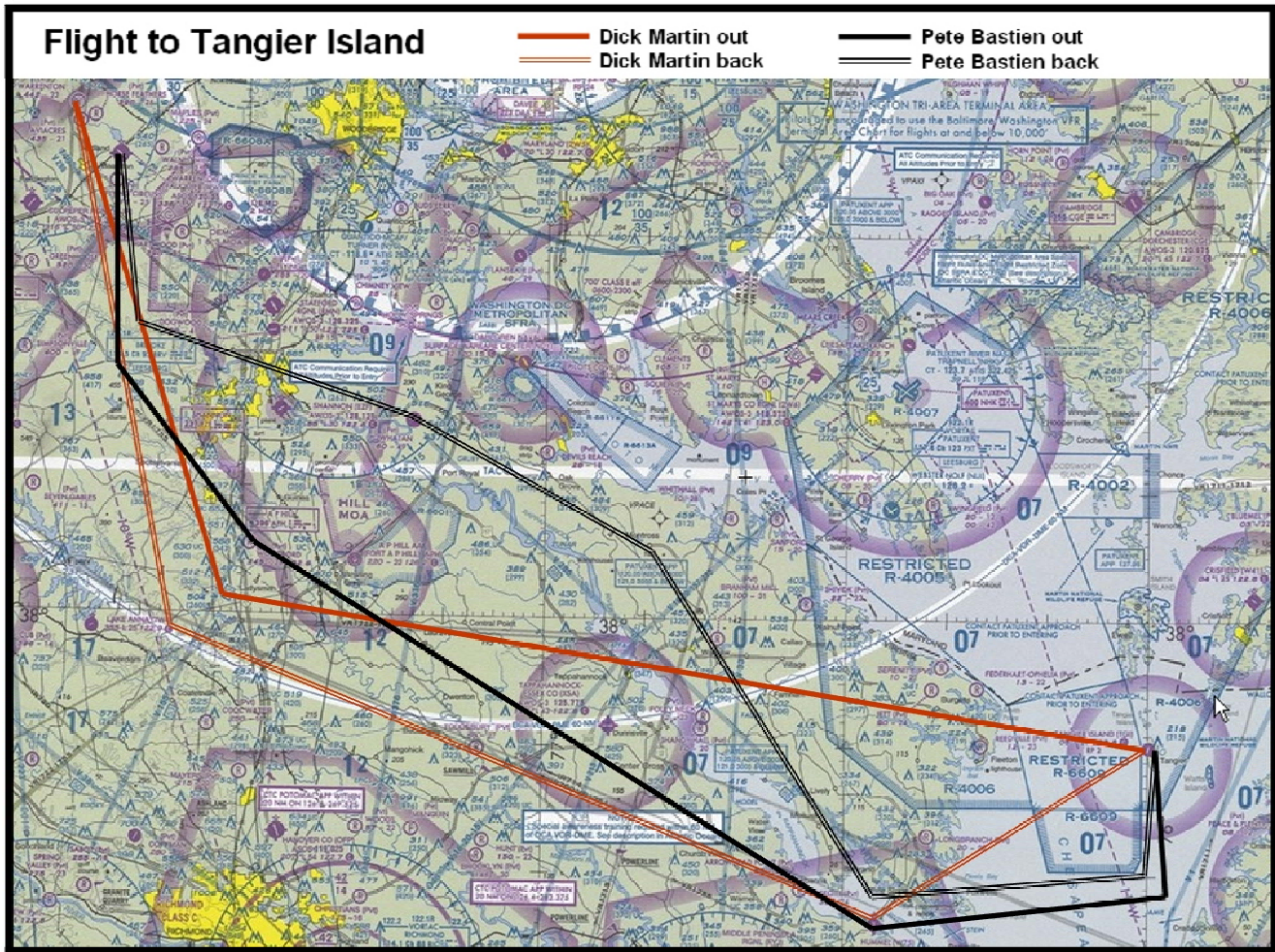
PPG collides with hot-air balloon.

At the January meeting,

Dave Riedel told us about the PPG that collided with a balloon last October in Arizona. The PPG pilot's cart ripped through one side of the balloon and out the other. His canopy entangled with the balloon, which saved his life. Both aircraft then descended to a hard landing. How could this be? As Dave reconstructed the event, several factors contributed: The balloon got a late start at the event; it was not with the other balloons; so the PPG pilot wasn't expecting it. The balloon was ascending rapidly from below and in front of the PPG's cart; the pilot's feet and the cart probably obscured the balloon. The balloon was emerging from below, with the land as background, not sky. It's easier to see an aircraft against the sky than against the ground. Lastly, because the two aircraft were on a collision course, there was no relative motion between them to catch the PPG pilot's eye. See a full account of the accident including an animated reconstruction at http://www.footflyer.com/Safety/Midair/paramotor_midair_collision_risk.htm.



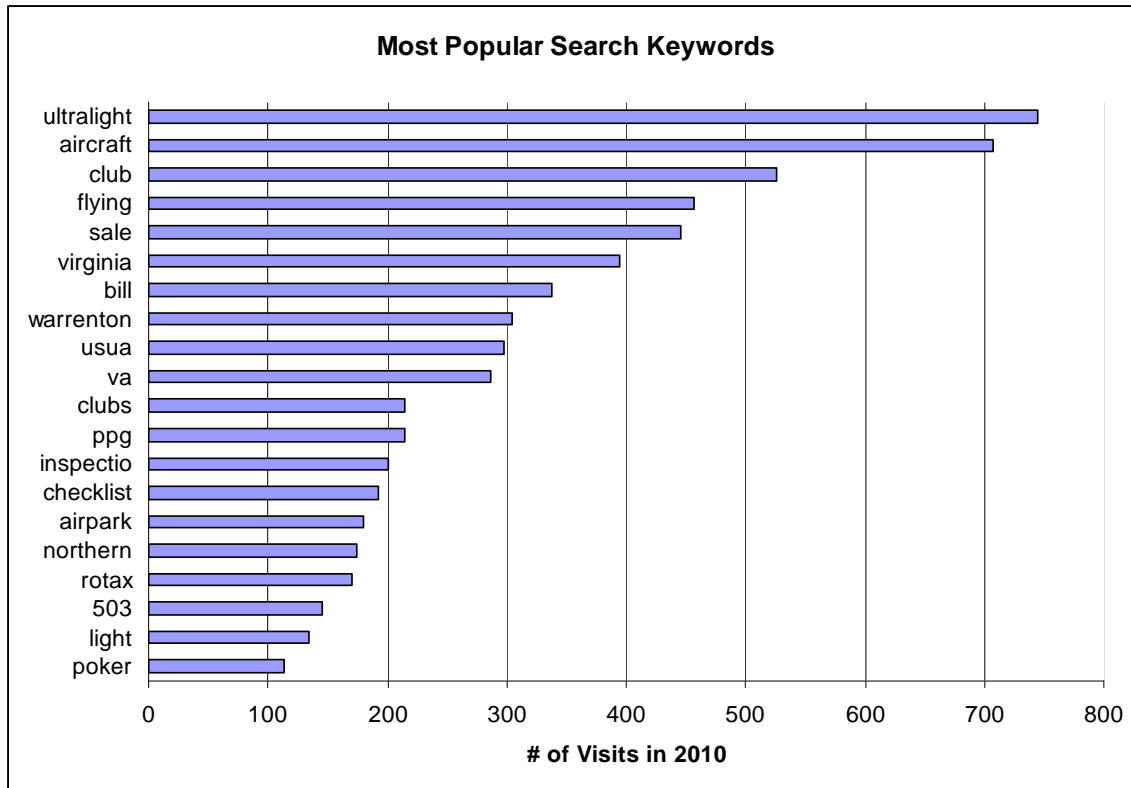
Flying to Tangier Island? At the January meeting, Pete Bastien and Dick Martin talked about their flights to Tangier Island last fall. Besides the open water, the main challenge is all the restricted airspace between here and there. They mostly flew around it, as this plot shows.



Web Site. What club event drew 1,700 people last year? It wasn't the first outdoor meeting of the season (~25), nor the holiday party (35). It was the website—1,700 visitors stuck around for more than two minutes. (We had 10,436 total visitors, but many of these arrived on a link from Google only to find that they were not in Kansas anymore and bailed out within 30 seconds.) The most-visited page, after the home page, is an obscure page from 2004 about organizing a Poker Run. Indeed, if you Google *airplane Poker Run*, there we are at the top of the second page! Who knew? Page #3 is <http://usuclub1.org/ppg/gear.php>, a list of PPG gear that Paresh put up 4 years ago. I suppose it needs updating or deleting.

In fact, much of the site needs updating or pruning. If you have thoughts on that, please send them to me. If you would like to be the webmaster, please let me know that, too! Greg Palmer built the site for us, but finds it hard to keep up. He's willing to have someone else do it.

What was the public looking for when they arrived at our door? We actually know. Here were the top 20 things on their minds in 2010.



Fly safe,
Steve



HEATED CLOTHING

by *Steve Beste*

I went flying in 32-degree weather this month. My trike, which normally climbs at 700 fpm, was doing 1,000 because of the thick air. With the slanting sun and the short days, the thermals don't have much chance to get going. In short, it's superb flying weather—if you can deal with the cold.

As to that, Hugh McElrath, the hang gliding co-owner of my trike, likes to say that there's no such thing as bad weather...just bad clothes. As an example, he writes, "had a nice 45 minute hang glider flight on December 19th in 25 degrees: not bad with balaclava, face shield on helmet, silk long johns, flannel lined jeans, chemical heat packs hand and foot." To this I say, gentlemen, gentlemen: we fly **powered** aircraft, many of them with perfectly good electrical systems. The solution to cold weather is not chemical heat packs—it's electrically-heated clothing. I have gloves and a heated jacket liner, which are wonderful. Here's what you need to know about this solution.

The Short Take

The clothes are great. They work well. But they're expensive, and they draw a lot of power, perhaps more than you have. You'll have to do a power budget. You will probably not have enough electricity (or cash) to "power" two people. So this is probably a one-person deal.

The Clothes

The principal manufacturer is Gerbing's. See www.gerbing.com. You can also buy them from RevZilla, whose website has excellent videos about the clothes: www.revzilla.com/gerbings-heated-clothing. Here are the main components.

Item	Amps	\$
Heated vest liner. Heated in chest, collar, back	4.5	139
Heated jacket liner. Heated in chest, collar, back, sleeves	6.4	199
Heated pants liner	3.6	199
Heated "G3" gloves (pair)	2.2	139
Heated socks (pair)	2.2	59
Portable temp controller (single control)	--	69
Portable temp controller (dual control)	--	99

The controllers include everything you need to connect from your battery to the jacket, including a fuse block. If you have only the gloves or socks, you'll also need a long Y-cable to go from the controller down your arms to the gloves (or down your legs to the socks). The dual controller lets you control the temperature of your jacket independently of the gloves. This is a good thing. In my brief experience with the jacket, gloves, and the single controller, I found that the jacket got too warm while the gloves were too cold. So I'm buying the dual controller. (I will sell you a single controller cheap!) Gerbing's also sells "permanent" controllers. These mount into your aircraft's panel.

The Power Budget

The key variable here is knowing how many amps your engine makes available for accessories. I've shown the HKS and Rotax 912 values here. The amps required by other accessories are typical.

Engine	HKS	Rotax 912
	Amps	Amps
Power available	18.0	14.0
Fuel pump	1.6	1.6
GPS	0.8	0.8
Radio	1.0	1.0
Intercom	0.1	0.1
Strobe	2.0	2.0
Running lights	1.3	1.3
Transponder	0.3	0.3
<i>Total</i>	7.1	7.1
Available for clothing	11.0	7.0

The upshot is that my HKS can support the jacket liner plus gloves (8.8 amps), but the Rotax can carry only the vest and a pair of gloves (6.7 amps), assuming all those other accessories. But this may be enough to get you flying. Remember: there's no such thing as bad weather; just bad clothes.

Volunteer sign-up sheet. It's filling up nicely. Check it out at <http://goo.gl/IBmIn> and sign up for one of the jobs. You'll have a good time.



MEETING MINUTES

January, 2011 Minutes

USUA Flying Club One

Saturday, January 6, 2011

Centreville High School Library

Centreville, VA

Selling 50/50 tickets before meeting

Call to Order

President Steve Beste called the meeting to order at 7:30 P.M.

15 members present.

CONNECTIONS

Visitors & New Members

No visitors or new members at this meeting.

Old members

Bob Eaheart said he was out flying his PPG in the skies above the Warrenton Airpark on one of the few warm days. Many of the other members say they keep an eye on the thermometer, wind and ready to go when it all comes together.

Steve Beste and **Andreas Weiss** took their Trikes into snowy Sky Bryce for the \$100 hamburgers. He also said that flying back to Front Royal, Andreas blew a tire on landing. Turns out he did not see the bad condition of his tires because they were hidden by the wheel pants.

IN NEED OF

How do you change a tire?

We had a discussion on the How-to-do-It. Members pointed out that you have two types

of wheel rims; solid and the ones that split apart. The ones that come apart make it very easy to put a tire on, but with the solid rims the old tried and true use of tire irons and a lot of liquid soap will do the trick. You can get tire irons in a lot of motorcycle shops or tool stores. Also take a look at: *How to change a motorcycle tire* on YouTube.

SERVICE PROVIDERS

Recap our standing list of service providers:

- PPG instructor and dealer:
Michael O'Daniel
- Fixed wing instructor: **Chuck Tippett**
- Welder: **Tom Kotsch**
- A&P mechanic: **JD Ingram**

REGULAR REPORTS

Secretary: Jim Heidish reported December Minutes will be published in the January Club Newsletter and reviewed at the next meeting.

Treasure: Jim Birmbaum reported December Income: \$120.00, Expenses: \$573.47, The Flying Club 1 Checkbook Balance: \$1908.80

President: Steve Beste said that the private grass strip at Woodstock, VA, that has welcomed many flyers has been sold after 7 years on the market. The good news is that the new owner is a pilot (soaring), and he going to keep it an airport.

Also on the soaring topic; the local soaring clubs are protesting the proposal of placing wind power turbines on the high ridges along the VA /West VA boarder. This is where they do most of their ridge flying.

*Safety and Training Director: **Dave Riedel*** had an in-depth presentation with photos about a mid-air collision between a PP Trike and a hot air balloon. We need to be very alert when other aircraft and especially when different types are in the same area. Take nothing for granted, re-read the rules and see and avoid!

*Membership Director: **Jim Birnbaum*** reminded members about dues for this year. Active membership is at 54.

*Warrenton Air Park Owner: **Tom Richards*** - not at meeting.

*Clothing Sales: **Pete Bastien*** - nothing special to report.

Old Business - no old business.

New Business - no new business.

MONTHLY PROGRAM

Pete Bastien and **Richard Martin** gave a program on their flights to Tangier Island last year. They showed photos from the flight and chart printouts of the different flight paths that you can take to avoid all the restriction areas.

50/50 Drawing: Winner was **Jim Hill**

Adjourn

*President **Steve Beste*** adjourned the meeting 9:00 P.M.

Submitted by Jim Heidish, *Secretary*



ACTIVITIES

2011 FLYING CLUB 1 ACTIVITIES SCHEDULE

Designated Club meetings will be held the first Thursday of each month in the Centreville High School, Union Mill Rd., Centreville, VA, at 7:30 PM. Others will be held at 11:00 AM at the Warrenton Airpark as shown in the 2011 schedule. Changes in time or location will be posted in this newsletter and on the Club website.

2010 Club Activities Schedule

Date	Activity	Location	Description
Thur, January 6th, 7:30PM	Club Meeting	CVHS	Standard Agenda
Thur, February 3rd, 7:30PM	Club Meeting	CVHS	Standard Agenda
Thur, March 3rd, 7:30PM	Club Meeting	CVHS	Standard Agenda
Sat, April 2nd 11AM	Club Meeting	WAP	Club meeting and cookout at Warrenton Airpark
Sat, May 7th, 11AM	Club Meeting	WAP	Club meeting and cookout at Warrenton Airpark (WAP)
Sat, May 21st • 10AM - Memorial ceremony • 11AM - Club meeting	Memorial and Club Meeting	WAP	Memorial ceremony and cookout at Warrenton Airpark (WAP)
Sat, June 11th • 7AM - PPG Poker Run • 9AM - Airplane & Trike Poker Run • 11AM - Club meeting	Club 1 Poker Run and Club Meeting	WAP	Club 1 Poker Run and Club Meeting at Warrenton Airpark (WAP)
Sat, July 9th, 11AM	Summer BBQ and Club Meeting	WAP	Monthly meeting and Summer BBQ at Warrenton Airpark (WAP)
Sat, August 6th, 11AM	Club Meeting	WAP	Monthly meeting and cookout at Warrenton Airpark (WAP)
Sat, September 10th, 11AM	Club Meeting	WAP	Monthly meeting and cookout at Warrenton Airpark (WAP)
Sat, September 17th or 24 th TBD	Club 1 Fly-out to Trikefest East at Shreveport North (62PA)	WAP	Club1 Fly-Out from Warrenton Airpark (WAP)
Sat, October 1st	Club 1 Fly-in and meeting	WAP	Monthly meeting, Club 1 Fall Fly-In and cookout at Warrenton Airpark (WAP)
Sat, October 29th	Club 1 Color Run Fly-Out	WAP	Club 1 Color Run Fly-Out at Warrenton Airpark (WAP)
Thur, November 3rd, 7:30PM	Club Meeting	CVHS	Standard Agenda
Sat, December 10th, 4:30PM	Club Meeting / Holiday Party	WAP Club House	Monthly meeting and Holiday Party at 4:30PM

CLASSIFIEDS

Ads will be run twice and then dropped unless resubmitted, or renewed by telephone or e-mail. Please advise the editor: **Autumn Aceto** (alaceto@gmail.com) when the ad is no longer needed.

FOR SALE — Zodiac 601 XL (650 XL) partially completed kit. Kit includes Constructed Tail Surfaces and Fuselage, to include Landing Gear with Wheels and Brakes, Dual Brake Peddles kit, Dual Control Stick kit and Instrument Panel. The wing kit and engine is needed. The wing kit is available now pre-drilled. It The plane will take a Rotax 912S, Jabiru 3300, Continental 0200, Lycoming 235, Corvair or VW conversion engines. All documentation and registered plans are in the package. Asking \$7500 or best offer above \$6000. Note this is a Light Sport class aircraft. It is available built, IFR Certified at Southeast Light Sport for \$99,900. (SouthEastLSA.com). See <http://www.zenithair.com/zodiac/xl/> for details of aircraft.
Contact: Larry Walker, 540-347-7609

Flight Test Report: Steve Flattum flight tests the Zodiac and reports:
“The CH 601 XL / CH 650 family of airplanes are a delight to fly. Simple and easy to fly with a great view and they are very comfortable for long flights. The airplane is very strong and it is backed by a company that has been around for a very long time.”

Editing – Proposals, Technical, Advertising...

Since I am again working as a freelance editor, I’m looking to expand my client base. My largest client is LMI, based out of Tysons. For those who are familiar with this non-profit government contractor, you know their excellent reputation for well-edited documents.
Unlike this newsletter, which is a labor of love, all my work meets or beats all deadlines.

Autumn Aceto
703-244-7349
alaceto@gmail.com

MEMBERSHIP DUES POLICY

The period of membership follows the calendar year – January through December.

The renewal period starts on 1 October with regular dues at \$20.00 and family at \$25.00.

Members who have not paid their dues by the end of February will be dropped and will not receive the Newsletter or Membership Roster. New Members joining from 1 July through 30 September will be charged \$10.00. New members joining after 1 October will be charged \$20.00 or the family rate, if applicable, and will be credited with full membership for the following calendar year.

Please mail payments to USUA Flying Club 1, 8570 King Carter Street, Manassas, VA 20110.

Payment can also be made at the regular monthly meeting. Please include the 2010 Membership Application form with your payment. This will be used to ensure that our records are current. A copy of the membership application is attached and also printed at the end of the Newsletter.

Jim Birnbaum
USUA Flying Club 1,
Treasurer

FLYING CLUB 1 MEMBERSHIP APPLICATION – 2011

All members are encouraged to provide an e-mail address to the Club. It is our best means for fast communications with a large number of Club members in minimum time. We welcome you to USUA flying Club 1 and hope your membership will be rewarding to you in flying and fellowship.

*Name: _____ New _ Renewal _ Regular _ Family ___ Membership

*Street or PO Box: _____

*City: _____ State _____ ZIP

*Telephone(H) _____ Telephone (W) _____

*Spouse’s Name _____ *Name to go on your name tag: _____

Emergency Contact: Name: _____ Phone: _____

To Receive Your Newsletter By E-mail, Enter Your E-mail Address: _____

___ Check if you have No Email

*USUA Member: Yes ___ No ___ If yes, enter member number: _____ USUA Pilot: Yes ___ No ___

*UL Registration # _____ *Aircraft Liability Insurance _____

Type Aircraft Stored/Flown from Warenton Air Park: _____

Other Ultralights (Owned or flown) _____

Flying Hours: Dual UL _____ Single UL _____ Conventional _____

*Club Activities or Services for Which You Volunteer _____

(NOTE: References to Ultralight aircraft above include Ultralight-type aircraft). Starred must be completed. Mail application to the Club 1 Treasurer, Jim Birnbaum, 8570 King Carter St., Manassas, VA 20110, accompanied by dues for regular (\$20) or Family (\$25) membership for a full year or \$10 and \$12 (Family) for the period 1 July through 30 September. Payments after 1 October should be for the full rate and the member will be credited with membership for the following calendar year. NOTE: Information from this application will be included in the Club 1’s membership roster intended for internal use only. (*Roster ___ E-mail ___ USMail ___ Name Tag ___).

To join USUA Flying Club #1, fill out the above form and send to:

Jim Birnbaum, Treasurer
8570 King Carter Street
Manassas, VA 20110-4888
USUA 1 Website: <http://usuaclub1.org/>

Check or Cash. We cannot accept credit cards.

To join the national USUA, go to <http://www.usua.org/>

USUA FLYING CLUB 1 GENERAL INFORMATION

The United States Ultralight Association's Flying Club 1 is a nonprofit, recreational club dedicated to the sport of ultralight and light sport aircraft flying.

2011 CLUB OFFICERS & DIRECTORS

President: Steve Beste 703-321-9110
Vice President: Dick Martin 703-242-2367
Secretary: Jim Heidish 703-524-5265
Treasurer: Jim Birnbaum 703-361-7478
Director and Past President: Len Alt 703-945-9314
Director At Large: Dave Riedel 703-815-4924
Director At Large: Larry Walker 540-347-7609

2011 CLUB VOLUNTEER STAFF

Safety & Training: Dave Riedel 703-815-4924
Membership: Jim Birnbaum 703-361-7478
Club Artist: Jim Heidish 703-524-5265
Librarian Dick Walker 202-363-4546
Newsletter Editor: Autumn Aceto 703-655-4137
e-mail: alaceto@gmail.com
Web Master: Greg Palmer 703-912-3774
PPG Web POC Par Karandikar 703-201-8909

A club is only as good as the members who volunteer to support its activities. The following listed activities with the club require member support in varying amounts. Please indicate on your membership application the function(s) (can be more than one) you will support as a Club member. All active Club members are expected to participate. However, members who live some distance away and cannot attend meetings regularly may prefer to support functions associated with Club weekend activities.

ANNUAL DUES (Jan 1 - Dec 31) \$20.00. (Includes newsletter.)
Family membership: \$25.00. After July 1, dues for remainder of year are \$10.00. Family membership: \$25.00 (husband and wife). (A spouse who wishes to participate will please complete a membership application form.)

NEWSLETTER SUBSCRIPTION (without membership) is \$10.00 per year.

CLUB WEB SITE: <http://usuaclub1.org>. Note the change in web site. Flying Club 1 now has an officially registered name on the internet.

MEETINGS are at 7:30 PM on the first Thursday of the month at locations announced in the Club newsletter and on the Club web site. (Times and days may vary. check the newsletter and/or the website.)

SUBMITTING ITEMS FOR THE NEWSLETTER Members and non-members are encouraged to submit items for this newsletter. Send submissions to Autumn Aceto, 9595 Sherburne Farm Rd, Marshall, VA 20115. E-mail is shown at left. Deadline for entry of items into the newsletter is 10 days before each meeting.

Club Management/Administration: Club Officers (elected, Directors and Staff). (Talk to current officer for more detail.) *Fly-ins:* Food supply, preparation; Facilities; Grounds; Ground Support. *X-country & outside events:* ground support. *Safety & Education:* Flight Safety & Training, New Member Mentoring, Library, Monthly Program Development. *Communications:* Membership, Newsletter, Web Site. *Fund Raising:* 50/50 Raffle. *Miscellaneous:* Meeting Facilities, Property Management, Clothing Sales, Tool Custodian, Ad Hoc Committees.

"If you are interested in joining the U.S Ultralight National Organization go to their Website for membership information at: <http://www.usua.org/>"