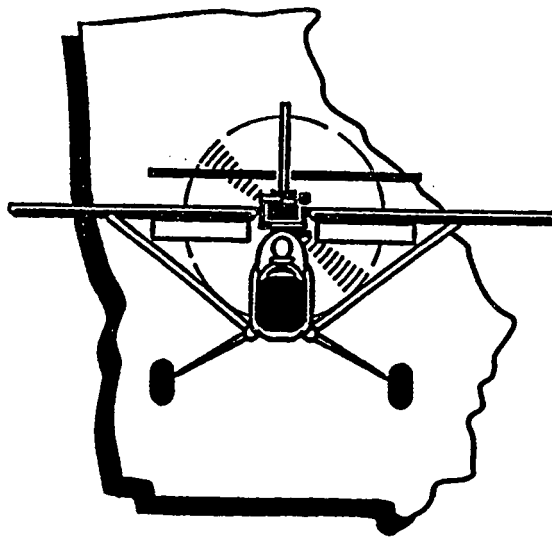


The Sport Flyer



**The official newsletter of
The Georgia Sport Flyers Association**

December 1996

MEMBERS

(If any information here is wrong, contact Bill Rouse.)

Kenneth Adams, Jr.	770-443-8792	Dallas, GA	
Herschel W. Barker	770-443-1310	Hiram, GA	Hurricane
Norman H. Bethke	770-267-5126	Monroe, GA	Super Weedhopper
George Boerner	770-???-????	Dawsonville, GA	
David Brainard	770-938-4456	Atlanta, GA	
Mike Carpenter, Jr.	770-460-7566	Fayette, GA	Kolb
Mike Carpenter, Sr.	770-997-0702	Riverdale, GA	Kolb
Phillip Cataldo	404-523-5556	Canton, GA	GT-400, Bravo 40
Ben C. Cole (BFI)	770-476-1070	Suwanee, GA	Talon XP
David Corriher	770-386-2808	Cartersville, GA	Ferguson F-II
Jack Day	706-234-3816	Rome, GA	Tierra
Pierce Day (BFI)	770-591-7284	Woodstock, GA	Mini-Max, Phantom
Ben DeMayo	770-834-2661	Carrollton, GA	
Michael Doolittle	770-463-0845	Newnan, GA	
Kem Dunnebacke	770-338-0427	Lawrenceville, GA	Titan Tornado
Frank Eck	770-953-2231	Marietta, GA	
Randy Falkenberg	770-604-9806	Atlanta, GA	
Bill Ferguson	770-443-2747	Dallas, GA	Ferguson F-II
Frank Flessel	404-761-8667	East Point, GA	Team Mini-Max
Stuart Fuller (AFI)	770-443-0911	Dallas, GA	Zephyr II
Chuck Goodrum	770-426-7294	Kennessaw, GA	Flt Dgn Trike R447
Steve Green	770-977-5572	Kennessaw, GA	CGS Hawk
Kenneth Grubbs	770-267-2301	Monroe, GA	Ultra Star, Super Cub
Jeffrey Hatle	770-251-2080	Sharpsburg, GA	Rans S-12
Chad Hilbert (BFI)	912-923-0256	Bonaire, GA	
Don Hooper	770-642-6479	Alpharetta, GA	
Andy Isburgh	770-483-6646	Conyers, GA	Team Mini-Max
John Jolley	770-786-6524	Covington, GA	Ferguson F-II
Barry Jones (BFI)	770-921-0751	Lilburn, GA	Quicksilver
J. D. Jones	770-969-9399	Fayetteville, GA	Hi-Max 1400Z
Charles Kirtland	706-295-1974	Rome, GA	Spitfire
William (Bill) Knecht	770-923-0445	Lawrenceville, GA	Talon XP
Chuck Koukol	706-896-1032	Young Harris, GA	
Jim Lanier (A&P)	770-945-2095	Buford, GA	
Robert Leatherwood	770-445-7216	Dallas, GA	Ferguson F-II
Don Loehle	770-306-1335	Palmetto, GA	Challenger I
Jerry London	770-786-8082	Oxford, GA	Fisher 404
Jerry Lynch	770-474-8211	Stockbridge, GA	Phantom
Wes Luster	770-414-1449	Tucker, GA	
Cliff McDonald	770-963-2939	Lawrenceville, GA	Quicksilver GT-400
Jim McKillip	706-548-6160	Athens, GA	Quicksilver MX
Ben Methvin	770-509-6753	Marietta, GA	Team Mini-Max
Brad Methvin	770-509-6753	Marietta, GA	Phantom
Dan Munson	770-516-5925	Woodstock, GA	Trike
Frank Nadolski	770-926-9752	Kennesaw, GA	Siemans Schuckert D1
Ed Noble (BFI)	770-457-9583	Chamblee, GA	Ferguson F-II
Scott Parker	770-908-7386	Jonesboro, GA	Weedhopper
Scott Perkins *	770-422-2597	Marietta, GA	
Loren K. (Pete) Pettis	706-647-6654	Thomaston, GA	Team Mini-Max
Michael Prosser	770-222-0484	Hiram, GA	Phantom
Robert Pytel	770-433-9676	Smyrna, GA	Chinook, WT II

* New Member

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Members of the 1996 Board:

President: **Jeffrey Hatle**
 Vice President: **Stan Sullivan**
 Secretary/Treasurer: **Bill Rouse**
 Safety Officer: **Ben Cole**
 Newsletter Editor: **Steve Yothment**
 Flight Operations Officer: **Ron Reese**
 Librarian: **Mike Carpenter, Jr.**

Members (continued)

Larry Ramsey	615-344-5954	Chattanooga, TN	Phantom, Mnt 503 Trike
Howard Ray (BFI)	706-692-6500	Jasper, GA	Phantom, Weedhopper
Robert Reese	770-476-9449	Duluth, GA	
Ron Reese (BFI)	770-957-6883	McDonough, GA	Challenger II
Bill Rouse	770-917-9228	Acworth, GA	Challenger
John Russel	706-802-0321	Rome, GA	Firestar II
Dana Simmons	770-579-9091	Marietta, GA	J3 Kitten
"Lucky" V. R. Smith	770-562-4338	Temple, GA	Phantom
Ralph Sullivan	770-943-5986	Powder Springs, GA	Kolb Firestar
Stan Sullivan	770-422-1318	Kennesaw, GA	Firestar
Dennis Thisius	770-467-9211	Locus Grove, GA	
John E. Wicker	770-992-2609	Roswell, GA	
Corky Valentine	770-781-2716	Canton, GA	Quicksilver MX
Steve Yothment	770-339-8394	Lawrenceville, GA	Kolb Firestar II

The President's Corner

It is hard to believe how quickly this year is coming to an end. This will be my last time in the President's Corner, so I would like to thank all of you for giving me the opportunity to serve as your president for 1996. Thanks to all of you who hosted our monthly meetings, for all of the support I received from Stan and Bill, and for all of the time Steve put into the newsletter for each of us every month.

For those of you who missed our November meeting, Ben Methvin and Brad Methvin were elected as our new President and Vice President. Bill Rouse will be serving as well as our 1997 Secretary/Treasurer. It was a very close

election and a hard fought campaign, but we talked them into it anyway. Good luck and congratulations to all. I know our club will be in good hands for the upcoming year.

Our December meeting will be at the Cobb E.M.C. Community Room in Marietta on December 7th, the same location as last year, so lets all plan to attend. See direction in this issue. Also, don't forget to bring a toy for the children at the Atlanta children's shelter. And don't forget to wrap them and label each package to help the children's shelter to distribute them.

- Jeff

The December Meeting

The December meeting will be held in the evening at the Cobb EMC Community Room on Saturday, December 7th at 7:00 PM. This will be our annual Christmas gathering and is a Pot-luck Bring-a-Dish dinner. We will be having our Christmas Dinner with Marietta EAA Chapter 268, just like last year.

The EAA Chapter and GSFA will provide meat and drinks. There is a no alcohol policy at the EMC complex, so please don't bring any. But do bring a food dish and family members.

Like last year, we are offering

assistance to a charity by bringing gifts for children, either a toy or clothing. Please bring these to the dinner.

The EMC Community Center is at 100 EMC Parkway in Marietta. To get there, take I-75 north to exit 114B. Follow the signs to US41 north and turn right (north). Take the first left (at the traffic light) onto EMC Parkway and take the second right into Gate 1. Stop at the barrier arm and inform the guard that you're with the GSFA and he will direct you to the Community Room.

See you there, and don't forget to bring your gift(s) for needy children.

The December Gathering

*Sponsored by
The Georgia Sport Flyers Association*

Saturday, December 7th, 7:00 PM
Community Room, Cobb Electric Coop Building,
100 EMC Parkway, Marietta, GA

Menu:

- *Ham and Roast Beef*
- *Rolls*
- *Coffee, Ice Tea and Soft Drinks*

Provided: All of the above and paper products will be furnished by the club.

Bring: All club members should bring a vegetable dish and a holiday desert.

We will have a Special Guest, Awards and a Door Prize!

Please RSVP by calling 770-251-2080. Leave your name and the number in your party attending. Thank you!

Christmas Project 1996: Atlanta Children's Shelter

Project Coordinator: Stan Sullivan, 770-422-1318

We want Christmas to be a happy time for all these families, especially the children. Below is a list of toys we believe the children will enjoy. All items should be new, wrapped and tagged showing contents of package. Please include batteries with all toys that require them. Don't forget to bring your gift!

Learning Toys:	Puzzles, Books, Paints, Play Dough
Action Figures/Dolls:	Power Rangers, Barbie Pocahontas, etc.
Moving Toys:	Trucks, Cars, Puppets, Riding Toys
Electrical Toys:	Radios, Walkman, Small Video Games
Building Toys:	Legos, Blocks, Small Planes and Cars
Sports Equipment:	Basketball, Football, Baseball and Bats
Board Games:	Monopoly, Life, Checkers, Uno Cards, etc

Defensive Flying: Flap Sense

(Reprinted from the United Kingdom's July 1991 General Aviation Safety Information Leaflet.)

It was gusting 15 - 20 knots, 30° to the runway, and the Cessna 152 was bouncing around. At 500 feet on final, the student lowered full flaps and immediately had to increase power to 1,850 RPM. We hit a downdraft at 100 feet and sank rapidly below our approach path. The sink rate was just held with full power and we crossed the threshold in an uncomfortable attitude and did a "dentist's job" landing (a "pranger" in our vernacular). Taxiing back, I broke the silence and asked, "Why full flaps?"

"Because I read it in a flying magazine in the club and the other instructors have always told me to land with full flaps."

"I see."

Later, over coffee, I asked, "What is the rate of climb in the C152 with full flaps and full power?" "Hardly any," he replied. "So," I went on, "if you're descending at 100 feet with full flaps and hit a 200 fpm downdraft, even full power won't stop your descent until you're through the downdraft."

"Is a 200 fpm downdraft likely?" he asked.

"Well, glider pilots tell me 600 fpm updrafts are common and most have encountered 400 fpm downdrafts while attempting to soar."

"Hmmm," he said.

"With 20° of flaps," I added, "the rate of climb in still air is about 500 fpm."

"Oh," he said.

Another pause, then I asked, "Have you seen the effect of rudder on the C152

with full flaps, at slow speed without power on?" He said he hadn't. "With power on," I continued, "the slipstream effect keeps the rudder responsive. With no power, at 50 knots, you can bang the rudder from side to side with little or no immediate yawing. The rudder response is poor in the absence of slipstream."

"Oh," he said, waking up. "So having to 'kick off drift' on a crosswind landing with full flaps and no power in the flare..." he trailed off.

"Precisely," I said.

After another slurp, "Well, when should I use full flaps?"

"You tell me," I said. "Think about it. Why would you want to use full flaps?"

"To get into a short field, and to have the minimum landing run," he said thinking hard.

"Well then, will you need full flaps to land on a long runway, and will you ever plan to go into such a small field that you can only get in, even with full flaps, if there is a strong wind blowing? No, of course not, but you might need to use full flaps to get safely into a moderately short field in light or calm winds. But, in those circumstances, strong downdrafts are unlikely," I said. "Let's have another coffee." Settling back again, I added, "So in light winds use full flaps if you want to or need to, but think carefully before using full flaps in low powered airplanes in crosswinds or in strong wind conditions."

"Sounds reasonable," he said. "Like a candybar?" "Good idea," I said.

Letters To The Editor

A new flightpark?

Steve:

I have an item that may be of interest for some of our NW Georgia members. Maybe you could add a paragraph in our next newsletter for the following:

I've just met with a guy in Cave Spring, GA, (about 10 miles south of Rome) that is making plans to start an ultralight airpark of sorts. He's discussed building about 10 hangars, has an area for a 900' grass runway, will have electricity, water, restrooms, showers, camping facilities, and a few other amenities. I told him

that I would pass the word to interested parties that I know of and will feed info back to him for his consideration. Right now he's estimating investment costs and looking at cash flow to determine costs for prospective UL participants.

If you know of anyone that may be interested, please E-mail or call me for further info. Thanks.

Charlie Kirtland
ulflyer@aol.com
(706) 295-1974

Editor's Note: Does anyone know anything about this possible future ultralight park? Please call Charlie for more information, and let him know if you would like to have an ultralight park in the Cave Springs area.

A computer program...

From Scott Perkins...

For those interested, I have a computer program which can calculate:

1. Degree angles on the prop any distance from the hub for any given propeller pitch in inches.

2. Generate pitch angles and inches, prop rotation speeds, prop tip speeds, and theoretical cruise speeds at theoretical 100% propeller efficiencies for given engine speeds, gearbox reductions, prop diameters, and cruise speeds.

Otherwise, from actual cruise speeds, engine and prop data, the program can calculate the actual propeller efficiency and tip speeds.

3. The location of the center of gravity by inputting the weights measured at each of the wheels and their location relative to the datum.

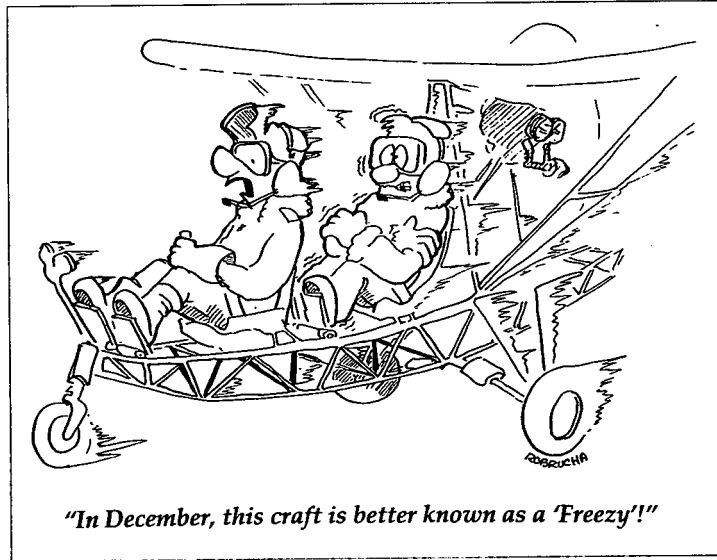
4. Either the location (distance from datum) or amount of weight to be added if you know where you are going to put the weight in order to affect a specific change in the location of the C of G. (The best place for the datum is the main wheel location.)

5. Impact on the the C of G when contemplating changes such as baggage, larger engines, relocation of fuel tanks, or addition of chutes, etc.

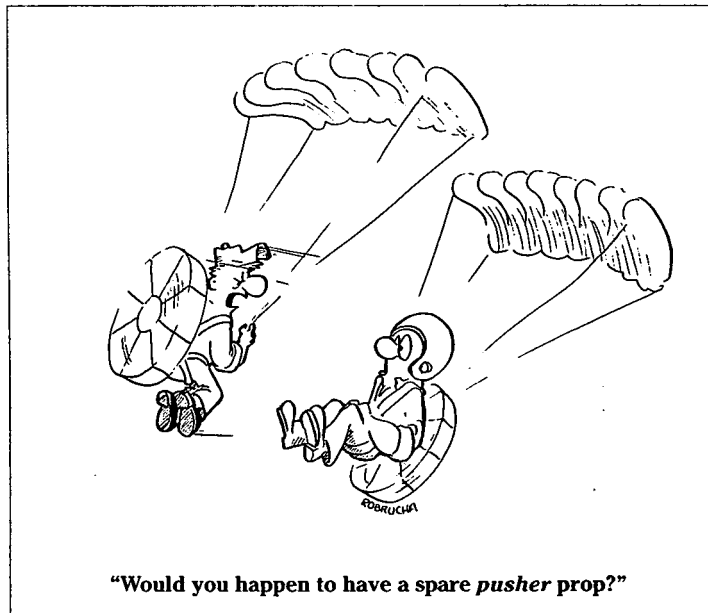
Scott says to give him a call anytime if you want to do some Weight and Balance exercises on your aircraft. All he needs are the weights at all of the wheels of the fully loaded aircraft in the level flying attitude.

You may contact or leave a message for Scott at (770) 973-3860.

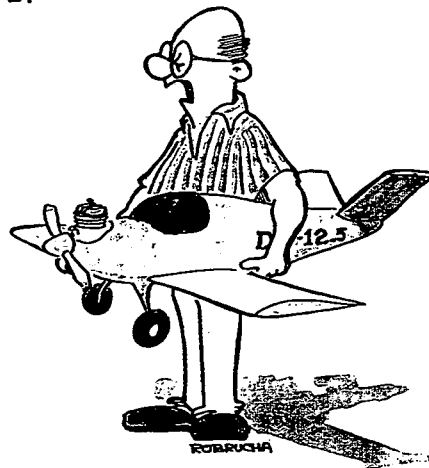
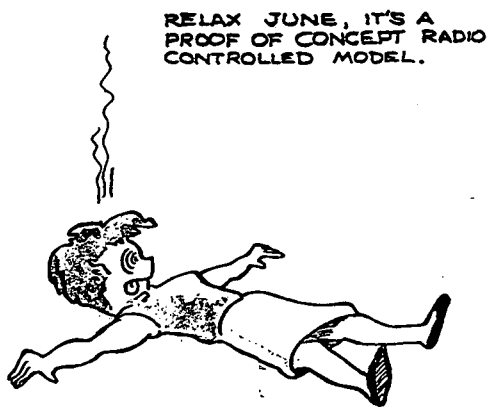
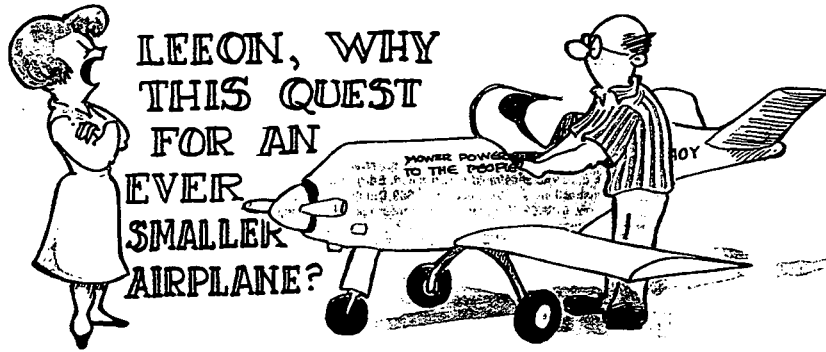
Comedy Corner



ROBRUCHA



ROBRUCHA



Classified Ads

FOR SALE - 1992 Ferguson F-2, Rotax 582 (65 hours), 3-blade flight-adjustable Ivoprop, Digital Instrument System, A&P built, beautiful condition. \$20,000. Call Glen Horne at 770-720-1877.

FOR SALE - Kolb Ultrastar, 40 hrs, factory welds, excellent condition. New Culver prop with hardened leading edge, Second Chantz chute, 8 gal. tanks, EGT, CHT, Alt, AS, Tach. Always hangared, \$4,700.00. Call Kenneth Grubbs at 770-267-2301 (day) or 770-267-5852 (nights).

For Sale - 1984 Rotec Panther Plus with Rotax 447 (about 50 hrs. TT), gearbox, wooden prop, in good shape. (Strut-braced, conventional-gear, high-wing pusher w fully enclosed cockpit.) \$3000 OBO. Call Freddie in Calhoun, GA, 706-625-6958 home, or 706-629-2929 work.

FOR SALE - Weedhopper C, unmounted, zero time, Kawasaki 440, CDI with 5-belt magnum redrive, \$3,750.00. Call Scott Parker at 770-908-7386.

FOR SALE - Zephyr II, 2-place, Rotax 582, low time, loaded with every option, mint condition, \$16,900. Call Stuart Fuller, 770-443-0911.

FOR SALE - Zephyr II, dealer built with 618 engine, low hours. Call Howard Ray, 706-692-6500.

FOR SALE - Team Airbike, factory built, Ser. # 1, new Rotax 447, mint condition, needs nothing. \$6,700. Call Brad Williams, 770-466-9985.

FOR SALE - Team Mini-Max, complete, ready to fly minus engine, prop, instruments. Fully enclosed. \$2,995. Fully enclosed custom trailer also available, \$800. Call Andy Isburgh, 770-483-6646.

FOR SALE - 1989 MXL II Sport, new 503 DCI, full pod of instruments, rebuilt, needs sails, \$8,000. Call Bo Benedict, 770-967-6942.

FOR SALE - Fisher FP-101 with Kawasaki 440 engine. \$3,500. Call Ron Reese, day 770-957-0138 or night 770-957-6883.

FOR SALE - Weedhopper airframe only (no engine). New, ready to put your engine on. \$2900.00. Call Howard Ray, 706-692-6500.

FOR SALE - Spalding single-place floats with all mounting hardware and instructions, new, \$1150. Call Stuart Fuller, 770-443-0911.

FOR SALE - Rotax 532 engine with B box, dual carbs, water cooled with radiator included. Exhaust manifold and muffler included. 350 hours on engine. Runs great! \$1295.00. Call Steve Green, 770-427-2799 or 770-977-5572.

FOR SALE - Rotax 503 engine, new in box with B drive. Make offer. Howard Ray, 706-692-6500.

FOR SALE - Rotax 377 FA, with gearbox and CDI conversion. Needs one piston. \$595. Call Andy Isburgh, 770-483-6646.

FOR SALE - BRS-UL2 parachute, 750 lbs gross weight. Rocket motor, chute out of date and need repacking. Otherwise in excellent condition. \$350. Call Steve Green, 770-427-2799 or 770-977-5572.

WANTED - 750 lb. parachute, BRS or Second Chantz, Rocket or Air. Call Larry Ramsey at 423-344-5954.

WANTED - Repair parts for Weedhopper (2-seater or Super), whole plane or parts. Call Norm Bethke, 770-267-5126.

The GSFA Voice Mail System

All GSFA members have access to the voice mail system to get updates on upcoming events as well as for leaving messages to other members. Just dial 770-663-7108 and choose the number to access the information you want.

If you would like to leave a message to other members about when and where you will be flying, choose number 2, wait for the beep and leave your message. If you want to check and see if anybody has left a message as to when and where

they will be flying, after pressing 2, press *, then enter the security code (4273) and press 1 to hear messages. Don't forget to press 1 after you listen to each message to save it so that others can retrieve the message also. The security code matches the letters GASF (Ga. Sport Flyers) so it should be easy to remember. Please do not change it.

If you encounter any problem with the voice mail system, contact Bill Rouse at 770-917-9228.

GSFA Information...

The Georgia Sport Flyers Association is a non-profit organization devoted to the promotion, education and safety of ultralight flight, but encourages and accepts members from all walks of aviation. Membership is \$30.00 per year and includes subscription to the newsletter. Membership applications with payment should be brought to a membership meeting or mailed to:

Bill Rouse, Secretary/Treasurer
Georgia Sport Flyers Association
3764 Halyard Court
Acworth, GA 30102

Bill can also supply membership applications.

The newsletter (only) is available to non-members for \$20.00 per year.

Meetings are normally on the second Saturday of the month, at various locations around the metro Atlanta area.

The Sport Flyer is the official newsletter of the GSFA and is published on a monthly basis. THE ARTICLES AND OPINIONS STATED IN THIS NEWSLETTER ARE NOT NECESSARILY THE OPINIONS OF

ALL OF THE MEMBERS. It is the responsibility of each individual to make sure that the articles meet his or her needs and applications.

Articles from the membership and general public are highly encouraged and solicited. No material can be returned unless accompanied by sufficient return postage. To submit articles to the newsletter, send to:

Steve Yothment
612 Steeplechase Drive
Lawrenceville, GA 30244

Articles on floppy disk are preferred, but any form is acceptable. If you have a computer and modem, you can send articles to Steve at the S-A Ham BBS, 770-903-6789, or via Internet at address SteveYoth@aol.com.

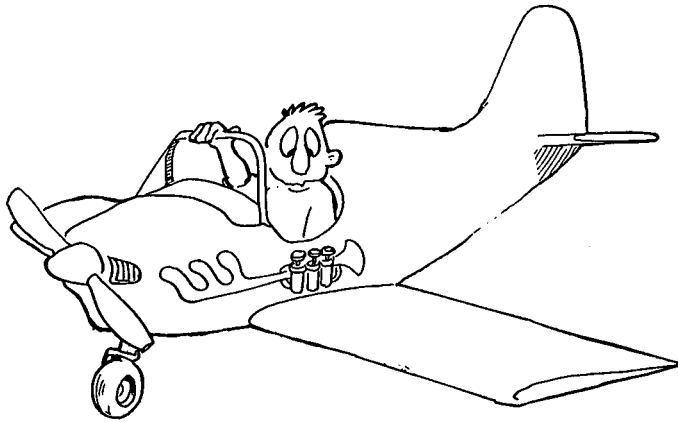
Articles for the January newsletter should be submitted by December 25th.

All other correspondence should be mailed to:

Georgia Sport Flyers Association
3764 Halyard Court
Acworth, GA 30102

or contact any club officer.

Georgia Sport Flyers Association
3764 Halyard Court
Acworth, Georgia 30102



Chuck Goodrum 1/97
2009 Jebbs Court
Kennesaw, GA 30144

Tuned Exhaust