SOARING TECH

BY BILL COLLUM

UNIQUE SOARING TERMS

In any human endeavor involving more than one person it is important to create a shared understanding through the use of a common conceptual language. This is why pilots, engineers, doctors, and others who engage in complex abstract activities develop their own jargon which can be incomprehensible to outsiders.

This month, I'd like to examine the jargon of soaring, and capture some of the terms we all hear around the gliderport. While a few "soaring dictionaries" do exist I have not found one that captures the kind of lively slang that is peculiar to soaring. So, I thought I'd start one. Some of the terms listed below are unique to soaring, some obviously come from other aspects of aviation, some clearly derive from other sports (such as sailing or surfing), and some I just flat-out made up (determining which is which I leave as an exercise for the reader). Italicized terms in the definitions refer to other dictionary entries.

Limited space prevents us from publishing a comprehensive list here, but we're in the process of setting up a "Soaring Tech" website. I'll post an "official" soaring slang dictionary there soon. I hope that this will become a "living document," and will continue to evolve with the sport of soaring. Send me a note at soaringtech@ssa.org with your own soaring slang to add to the dictionary.

See you on the porch,

—Bill

Abort - Discontinue the current *task* and seek a safe landing spot

Action - Lift, as in "There's lots of action up there today!"

Alpha - Angle of Attack; the angle at which the wings meet the airstream in flight; when alpha becomes too high, the aircraft stalls

Anti-Smash - Any marking or device, such as a strobe light or bright paint, that

is intended to draw attention to a *ship* and help avoid a *merger*

 $B \Leftrightarrow P$ - Beer and Plumbing; What a *bubba* starts to daydream about after the third hour of a six hour flight

Bad Day - A day spent on the ground, as in "I'm having a bad day, but maybe I'll get to fly tomorrow"

Bad Lands - See Hostile Ground
Bail - (1) Bail out; the act of departing
an aircraft in flight presumably for some
very good reason, as in "The merger
broke my spar, so I bailed around 5K'; (2)
To leave, as in "I've got to bail, see y'all
tomorrow!"

Ballistic - (1) Following a zero-G ballistic arc; an aircraft that has "gone ballistic" is unloaded; (2) To become extremely agitated, as in "Bob went ballistic when that gumby backed him"

Barley Pop - Beer, an adult beverage occasionally consumed on the porch only after close of business

Base Ace - The most talented and/ or experienced bubba on the field; The acknowledged King or Queen Bubba Beer O'Clock - See Close Of Business

Beerex - Beer Exercise; see *Porch* and *Close of Business*

Behind the Aircraft - A condition in which a pilot is reacting to what the aircraft is doing, instead of vice-versa; a very bad place to be.

Black Glass - See Carbon

Blown Gasket - A medical danger faced by bubbas when rigging or pushing an aircraft on a hot summer day, as in "You'd better take a break and hydro, or you'll blow a gasket"

Blown Out - The act of being ejected from a thermal as in "Man, I just got blown out of that boomer!"

Blue Day - A day without any visible clouds

Blue Hole - An area of sky without any CU; a blue hole may be full of blue thermals, or may just be dead air Blue Thermal - A thermal without an identifying cap cloud

Boards - Spoilers or airbrakes

Boomer - Strong *thermal*, as in "That was a real boomer!"

Boresight - The act of fixating on what is directly ahead of the aircraft, and failing to keep your *bead on a swivel*; an undesirable state that can lead to loss of *situational awareness*

Brain Button - The little button on top of a baseball cap which is always removed by experienced bubbas; see Head Butt Break - (1) An aggressive turn; After release, a sailplane will often break high and right while the tow plane breaks low and left to gain maximum separation; (2) What happens to a spar if a bubba pulls a little too aggressively

Bubba - A fellow pilot; one who shares the *stoke*

Bubba Bag - A one-piece flight suit with many pockets that are accessible while seated in the cockpit.

Bubba Rules - The condition under which one is encouraged and required to be responsible for their own safety Bubba Treats - Any snack item that is carried in the cockpit to sustain a bubba during a long flight

Bubbaship - The camaraderie, concern, and respect that all bubbas have for each other Bubbette - A respectful and admiring term for an attractive female bubba most often used appreciatively by unattached younger male bubbas

Bucket Hat - A floppy short-brimmed bucket-shaped hat that is frequently worn by bubbas; The epitome of function over form, their stylishness or lack thereof is a matter of much debate.

Camelback - A drinking bladder usually filled with iced water from which a bubba can sip while in flight to avoid dehydration, a dangerous condition which can impair judgment; see Hydro Camp - A gathering of sailplanes and bubbas, usually to share a specific local environment or experience, as in "Are you going to the Wave Camp in Marfa

Camper - A bubba who has landed out and is awaiting retrieval

Cap Cloud - A CU that marks the top of a thermal; lift can often be found directly under or slightly upwind of a cap cloud Carbon - Carbon fiber composite material; used for its great strength and light weight

this year?"

CBSIFTCBE - Common pre-takeoff checklist - "Controls, Ballast, Spoilers, Instruments, Flaps, Trim, Canopies, Belts, Emergency Plan"

Chute – Parachute; (1) A device intended to slow the decent of a pilot or aircraft in the event of an emergency; (2) A recreational device used by some people of questionable sanity to sky dive.

Clear – (verb) To check the sky around you for traffic before maneuvering Close of Business - The time at which the last flight of the day has landed and all aircraft have been put away for the night Cloud Flying - The act of flying a sailplane in or near a CU while working a thermal; While permitted in Europe, "cloud flying" is prohibited in the U.S.

Cloud Street - A linear row of clouds usually aligned parallel to the wind direction; a sailplane can often fly along a cloud street in rising air

Go figure.

Cloudbase - The bottom of the *CU* layer, where all *bubbas* want to be

Club - A group of local *bubbas* who have banded together in order to share their *stoke*

Cooking - Referring to lots of *action*; an atmosphere with strong *thermal* activity is said to be "cooking"

Counseling - The act of discussing a fellow bubba's error with him or her with the intent of eliminating any bad habits; counseling is always given and received in the spirit of bubbaship

Crank - (verb) Bank aggressively, as in "He really cranked that ship over"

CU - Pronounced "kyew" - Cumulus clouds, beloved of all bubbas

Dead Air - No action, as in "I set out across that *blue bole* but found only dead air, so I turned back"

Delta Sierra - phonetic for the letters "DS" meaning thoughtless, careless, or ignorant, as in "That was a delta sierra mistake, gumby!"; The opposite of *Sierra Hotel*, see *Uncool*

Derig - See Unrig

Dirtosphere - See Terrain

Dirty - Draggy; An aircraft configured for landing with *gear* down and *boards* out is "dirty".

Dominant Side - The direction, right or left, that a *bubba* may unconsciously prefer to turn when *thermalling*

Dot - Referring to what an aircraft looks like at a distance, as in "That *Ohi Wan* just zipped by and dotted me like I was standing still"

Double Plus – A modifier to indicate an extreme condition, as in "Oh man, you nearly *yerked* the *tow plane*, that was double plus *uncool*!"

Down – (1) non-functioning, See Tango Uniform; (2) The condition experienced by a sailplane that has run out of zoot Down Among 'Em - See In The Weeds Drift Factor - Predilection to become distracted; nobody wants to be around a gumby with a high drift factor Drive - To lose the feel of the sky, as in "I just started to drive so I RTB'd" Driver - A pilot who has no feel for the aircraft or sky conditions; an untalented pilot

Dullex - An exercise without a point, as in "Washing your *ship* under a tree full of birds is a dullex"

Dump – (1) the part of any airfield that is occupied by *hangar queens*; (2) The act of jettisoning water ballast

Engineering Tap - To firmly rap on a device or component that has gone tango uniform in an effort to regain its correct function, as in "Give that bummer an engineering tap to see if you can get it working again, maybe you'll re-arrange the fox mike"

Eyes Out - Keeping your eyes and attention focused outside the cockpit; see Head On A Swivel

FAA - The Federal Aviation Administration; the folks that make and enforce *The Rules* (not to be confused with *bubba rules*)

Fangs Out - Flying aggressively, as in "That *bubba* is fangs out chasing the leader!"

Field - Airport or glider port, as in "Sure I enjoy just hanging around the field, but I'd still rather be flying!"

Flathatting - Aggressive low-level flying, such as buzzing the club house; flathatting is usually risky, often illegal, and can be downright dangerous Flugelate - To fly, as in "Let's flugelate!" Fox Mike - Phonetic for the letters "FM", referring to the mysterious and unknowable force that animates some high-technology gadgets, as in "I have no idea how that hummer works, it's fox mike" Furball - A thermal being occupied by a large number of ships



Fuse - Fusealge; the main body of a *ship* FUSTALL - Common pre-landing checklist - "Flaps, Undercarriage, Spoilers, Trim, Look, and Land" Gaggle - A large number of sailplanes flying in close proximity, as often happens at the start of a race.

Glass - fiberglass or composite material Glass Rain - The results of a merger Glassy - Used to describe atmospheric conditions with no action; see Dead Air Glider - An engineless aircraft that is designed to glide back to earth following release; see Sailplane

Good Air - An unstable atmosphere with lots of *action*

Goop - (noun) Sunscreen; (verb) To apply sunscreen, as in "I forgot to goop up and really roasted myself"

GPS - Global Positioning System, some type of *hummer* that can be used to precisely locate an aircraft's position using *fox mike* technology

Grampus - A sailplane that is particularly difficult to *rig*; Grampus owners may have difficulty finding help when it's time to *plank up*.

Grid - A line of staged sailplanes waiting for *launch*

Grounder - One who is not yet a bubba or a student

Gumby - A careless or discourteous pilot; usually only a temporary condition as any gumby will receive *counseling* from fellow *bubbas*

Hacked - To be cut off in a thermal by

another sailplane, as in "That *gumby* just hacked me!"

Hair on Fire - Flying very fast; A *bubba* with his hair on fire is traveling at the *speed of heat*

Hangar Flying - The act of trading flying stories; see *Yarnex*

Hangar Queen - Any aircraft that rarely flies

Head Butt - Strong lift or sink that causes a hubba's head to bounce off the inside of the canopy, as in "That last thermal was a real head butter, I'm glad I removed my brain button"

Head On A Swivel - Keeping your head in motion, scanning the sky to maintain good situational awareness

Heads Down - The state of being distracted by something in the cockpit, resulting in loss of situational awareness High Side - The side of the ship towards the wing that has been raised by turb; lift can often be found towards the high side. Hook - (noun) the attachment on a sailplane or tow plane to which the tow rope is attached; (verb) the act of attaching a tow rope, as in "I'm ready to hook"

Hostile Ground - Terrain that offers few locations for a safe landout; sailplanes cross hostile ground with great caution Hot Stick - A particularly talented pilot, as in "Watch out for that hubbette, she's a hot stick!"; see Stick Ninja

Hummer - Any kind of technical gizmo whose internal workings are beyond human comprehension, as in "This

hummer has just gone tango uniform again!"

Hydro - To hydrate; drink water to avoid dehydration, as in "Bubba, it's hot today so don't forget to hydro"

In The Weeds - Very low altitude; an aircraft that is flying very low is said to be in the weeds.

Iron Thermal - The engine of a *motorglider*

K - pronounced "kay," one thousand; most often used to specify altitude in feet, as in "Please tow me up to 3K" *Landout* - A forced landing away from your home airport or intended destination, often the result of getting *zorched*

Landout Kit - A survival kit to be used in the event of a landout in a remote location Launch - The act of getting a glider or sailplane into the air, usually assisted by a wing runner

Lawn Dart - An aircraft that is very high on final and will have to make a steep decent or catch the *ten wire*.

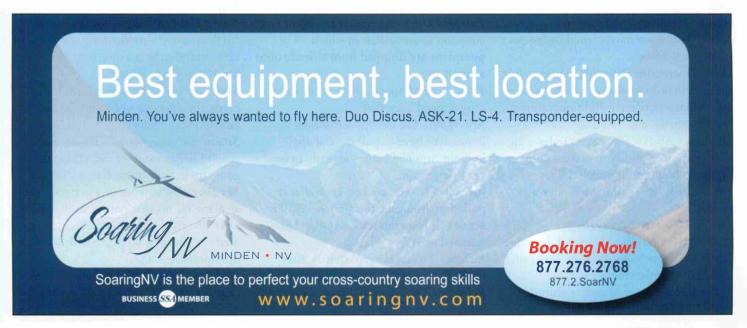
Layer - A layer of stratus clouds that blocks out the sun and can shut down the action

Lennie - See Lenticular

Lenticular - A smooth-edged cloud often indicative of a *wave*

Liar - A magnetic compass, as in "Don't put too much faith in the liar"

Lift - (1) The force generated by an aircraft's wings that counteracts the force of gravity; (2) Upward rising air that can be used by a sailplane or glider to gain or maintain altitude



Load - To put G on an aircraft by abruptly changing its vector Loaded – (1) The condition of being in increased positive or negative G, as can happen when an aircraft is maneuvering; (2) A condition which can be experienced by some careless bubbas who partake of too much barley pop at a porch party.

Logger - A type of hummer that logs a sailplane's flight path for later review.

Loose Nut - A description of a not uncommon problem that adversely affects a ship's performance, as in "The only problem with that ship is that there's a loose nut behind the stick"

Lose it - To lose the zone and begin to drive; (2) to momentarily lose control of an aircraft, as in "I lost it and spun out of the thermal"

Lost Soul - A pilot who, for whatever reason, is not able to fly

Merger - a mid-air collision, often caused by a bubba being heads down; while rare, mergers are not unheard of but sailplanes often fly within close proximity and the wise bubba wears a prayer cloth just in case Mission - See Task

Motorglider - A sailplane that is equipped with an engine and is capable of self launching and/or sustained powered flight.

Music - See "Tone"

Navy Turn - A constant descending steep turn to the runway started from pattern altitude when abeam the touchdown point No Joy - Failure to make visual contact, as in "No joy on the traffic"

O.B. - Original Bubba; a bubba whose extensive experience and accomplishments have earned the respect of all other bubbas

O.D. - Operations Director; in many *clubs*, the person (almost always a *bubba*) who is assigned to coordinate flight operations on any specific day

Obi Wan - An O.B. who seems to have an almost mystical ability to make a sailplane do things that appear unbelievable
Off Tow - What a sailplane is after a

Off Tow - What a sailplane is after a release

Ob Dark Thirty - See TDE

Over Develop - To build beyond desirable levels; CUs can "over develop" into rain clouds or thunderstorms

Pattern Tow - A tow to pattern altitude to enable a bubba to practice landing a ship

PCC - Positive Control Check; to check the operation of a ship's control surfaces before takeoff, as in "I'd like a PCC, please"

Peacock - A bubba who always buys the best equipment, but may not use it to its best advantage

Penetration - The ability of a sailplane or glider to fly upwind; aircraft with poor penetration are more challenging to fly cross-country as they will make less progress against the wind

PIO - Pilot Induced Oscillation; An oscillating flight path induced by the pilot's over-control of the stick

Plank - (noun) Wing; (verb) to attach wings to a *fuse*, as in "Can you give me a hand to plank up?"

Plant - When landing, to force an aircraft onto the runway with excessive force, as in "He really planted that one!"

Porch - The front porch or deck of the local clubhouse; the favorite social center and gathering place of all *bubbas*

Porch Party - A party held on the *porch* (duh!)

Prang - To damage an aircraft, as in "Some *gumby planted* this ship and pranged the tail wheel"

Prayer Cloth - See Chute

Press – (verb) Continue; as in "I'm gonna press to the next turnpoint"

PRS - pronounced "priss." Pilot Relief System; Any system or device which enables a *bubba* to relieve internal bladder stress while in flight; sort of the opposite of a *camelback*

Pull - Load; Slow down, as in "Pull to thermalling speed"; see *Push*

Pumpkin Drop - A popular fall event common at many *clubs* in which pumpkins are dropped from altitude onto a target

Push - Unload; Speed up, as in "Push to cruise speed"; see Pull

Red Apple - The canopy jettison knob; if you ever have to pull the red apple in flight, you had better be ready to use your *prayer cloth*.

Release - (1) The cockpit knob that is pulled to disengage the *tow rope*; (2) The act of releasing the *tow rope*, as in "I just released at 3K"

Relight - To *launch* again shortly after landing

Retrieve - The act of finding a *camper* and bringing him or her home

Retrieval Crew - A group of bubbas who are in the process of retrieving a camper; it is customary to reward a retrieval crew with a steak dinner and some barley pop Ridge Running - Flying low along the upwind side of a ridge, taking advantage of the lift generated by the wind being diverted upward by the terrain.

Rig - To assemble a sailplane Rigging Apron - An apron worn by some fastidious bubbas designed to hold tools and keep grease off a bubba bag while rigging.

Rigging Gear - Specialized tools and stands used to assemble a sailplane **Roast** - What a *bubba* does on a hot summer day while waiting in the cockpit for a *launch*

Rope Break - The failure of a tow rope or weak link while under *tow*, resulting in an unexpected landing; see *Unintended Release*

RTB - Return To Base; Fly back to the *field* and land

Safari - A cross-country adventure shared by two or more sailplanes, often with overnight stops

Science Occurs - What happens when you turn on a *hummer*; see *Fox Mike*

Scrubbed - Canceled, as in "The goo moved in early so we scrubbed today's task"

Scud - The wispy mist that sometimes hangs down below the cloudbase **Self-launch** - What a *motorglider* does

Separation - The distance between two aircraft; during a *merger*, separation goes to zero

Ship - Aircraft

Sierra Hotel - Phonetic for the letters "SH" meaning a particularly impressive act, condition, or person, as in "That finish was Sierra Hotel!"

Sink - Air that is falling towards the earth; the opposite of *lift* and the bane of bubbas everywhere

Situational Awareness - The zen-like state of being aware of everything that is going on in your immediate vicinity.

Sky Dive - To bail out of a perfectly good airplane for no sane reason, as in "You're a sky diver?!? Are you nuts?!?!"

Sled - A glider or sailplane with an unimpressive *L.D.*

Sled Ride - *Zorch* will be found in the October issue of *Soaring*.

SOARING TECH

BY BILL COLLUM

UNIQUE SOARING TERMS

Note: We complete Bill's bibliography of Unique Soaring Terms this month, along with some of the interesting mail that he has recently received.

Sled Ride - A flight in which no altitude is gained following *release*

Soaring - The world's premier magazine about *bubbas* and their *ships*; the monthly journal of the *SSA*

Spar - The main beam that stiffens and supports an aircraft's wings; if the spar ever breaks, you'd better pull the red apple and bail

Speed of Heat - Very fast indeed Spoilers - Surfaces that a bubba can raise perpendicularly from the surface of a wing to destroy lift

Sporty - Referring to a factor that makes a situation more challenging, as in "The

goo moving into the area made my final glide a little sporty"

SRA - Sailplane Racing Association; A nonprofit organization dedicated to the sport of sailplane racing

SSA - Soaring Society of America; the "parent organization" for all *bubbas* in the USA

SSF - Soaring Safety Foundation; a nonprofit organization dedicated to improving the safety of the sport of soaring

Staged - The state of being positioned on the runway ready for takeoff

Step - To leave the porch and walk out to an aircraft, as in "I'll let you know when I'm ready to step"

Stepped On - Conflicting radio traffic; two bubbas trying to talk at once, as in "Say again, you were stepped on" Stick Ninja - A very talented pilot Stick Thermal - A false indication of lift by a vario that is caused by zooming Stoke - (noun) The all-consuming passion for soaring experienced by most bubbas, as in "That bubba really has the stoke!" (verb) To pass along the stoke to grounders, as in "I think that demo ride got him stoked!"

Student - A bubba in training

SUA - Special Use Airspace; a part of the sky that has been reserved by the FAA for some special purpose and through which flight may be restricted or prohibited SUAF - Pronounced, "swaf" - "Shut Up And Fly." as in "Stop whining and SUAF, bubba!"

Tallyho - Positive visual contact, as in "I've got a tallyho on the tow plane"

Tango Uniform - phonetic for the letters "TU" meaning broken or nonfunctioning as in "That radio is tango uniform"

Task - A planned flight between a set of two or more defined waypoints

TDE - Too Damn Early; any uncivilized early hour of the morning (that is to say, anytime before noon)

Ten Wire - The act of landing long far



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BOB HAMILTON

As seen in the July 2008 issue of "Soaring" Magazine.

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(714) 791-7035 www.originalwaterlesswash.com beyond the customary touchdown point, as in "Geez, That guy really caught the ten wire!"

Terrain - The hard green or brown stuff that you might run into if you spend too much time *heads down*

Thermal - (noun) A rising column of warm air that can be used by a sailplane to gain altitude; (verb) to circle in a thermal Tone - the noise made by a vario to indicate lift or sink; "good tone" indicates lift, "bad tone" indicates sink

Touchdown Point - The point at which a *bubba* intends for an aircraft to touch down onto the runway.

Tow-out Gear - Specialized equipment that is used to tow an aircraft behind a vehicle while on the ground

Trailer - (1) A sailplane's portable hangar that can be towed from soaring site to soaring site; (2) A sailplane behind you in a race that is using you to mark thermals *Turb* - Convective turbulence, a good indicator of nearby lift (or sink).

Turbo - An engine installed in a motorglider which is not powerful enough to self-launch, but which can be

used to sustain level flight.

Turn point - A waypoint that indicates the end of one leg of a task and the beginning of the next leg

Uncool - Unlucky; sub-optimal; unpleasant; thoughtless; rude or inconsiderate; careless; as in "Tow rates have increased again? Uncool!"

Unintended Release - (1) A *release* that occurs before one has been commanded by the pilot; often but not always, the result of a *rope break*; (2) What can happen when a *PRS* malfunctions

Unload - The act of taking G off an aircraft, often by going ballistic
Unloaded - The condition of being in reduced or zero G as can happen in a ballistic arc

Unrig - To disassemble a sailplane or glider for storage or transport Vario - Variometer; a very sensitive vertical speed indicator that is used by bubbas to help identify areas of lift and

VIM - Vomit Inducing Maneuver, any aircraft maneuver that causes severe gastric distress, first in a passenger and then, as a side effect, in the pilot. Virga - Rain that evaporates before reaching the ground

Visit the Cows - See Landout Warble - See Tone

Wave - Atmospheric phenomenon caused by a strong wind blowing perpendicular to a mountain range; sailplanes have used wave lift to climb to more than 50,000 feet

Waypoint - A defined point along a course

Weak Link - A short section of rope or cable usually installed at the glider end of a towrope that is designed to break under extreme load to prevent damage Weed Eater - An aircraft that is very low on final and may not make it back to the runway

Weedisphere - See Terrain
Wheels Up - In flight, as in "I was wheels up at 2:15"

White Plane - A glass ship

Window - Special dispensation to engage in otherwise prohibited flight operations at a specific place and time; for example, a "wave window" may be opened by the FAA to permit VFR flight in a specific area to take advantage of wave lift at altitudes above 18,000 feet.

Wing Runner - A person who assists in a launch by running alongside a glider or sailplane and stabilizing a wing tip for the first few yards; usually, but not always, a bubba

Working - The act of manipulating a sailplane to take optimal advantage of the available *lift*, as in "That bubba is really working that thermal"

Yap - The act of excessively using the radio, as in "That bubba sure is yappy today"

Yarnex - Yarn Exercise; A hangar flying session

Yerk - (1) To yank a tow plane's tail up with the tow rope forcing its nose down, a very dangerous condition; (2) A warning of any dangerous situation, as in "Yerk! Yerk! Check your boards!" shouted to a gumby who is attempting to take off with the spoilers deployed.

Zone - To be in harmony with your aircraft and the sky around you, as in "I was really in the zone today."

Zooming - (1) the act of trading airspeed for altitude by abruptly pulling back on the stick; (2) The act of skimming along the bottom of a cloud at high speed then pulling back abruptly to "zoom" up the side in clear air

Zoot - The mystical energy that powers a sailplane, zoot is gained as a sailplane increases speed or altitude; A sailplane that is high and fast has more zoot than a sailplane that is low and slow; a high level of zoot usually provides a bubba with more options than does a low zoot level; a sailplane at rest has no zoot at all.

Zorch - To be unable to find lift, as in "I got zorched, ran out of zoot, and had to visit the cows."



FIGHTER PILOT FANTASY

I'm always a little behind in my recreational reading, so you've probably had plenty of comments about your Top Gun Glider column. First of all, being an engineer and not a competition pilot, I enjoy reading your soaring tech column immensely. I'm already trying to figure out how I'm going to reinforce our club's 1-26 so I can make strafing runs on the airfield while the club does its annual Halloween pumpkin bombing.

My fighter pilot fantasy aside, you really took the wind out of my sails when you mentioned the noise footprint of these small jet engines. I'm also a power plane pilot, and from reading the AOPA magazine for years I can tell you that small general aviation airports are becoming an endangered species for a number of reasons. One that local residents frequently use to close us down is the noise. While everybody reading our magazine looks skyward to find the source of the music whenever we hear an airplane pass overhead, we're in the minority. I'd argue that the Cessna / Cherokee / Bonanza / Cirrus / etc. isn't any louder than a delivery truck (let alone the neighborhood teenaged gear head with a loud stereo), all it takes is one local busybody looking for an excuse to get in somebody's business and the airport can find itself mired in at best bad publicity, and at worst red tape. With our glider field (here in the Midwest) often located in rural areas, I worry about the local residents complaining about "Them rich city folk with their expensive toys."