

Minutes of SMAC Meeting,FEBRUARY 2006

Minutes of SMAC meeting 2-07-06

Place: Asbury Methodist Church, North Hamp-
ton

Time 7:30 - 8:00 PM

Members Present 23

Guests Present 1

Minutes read by Bob Levy. Accepted as read.
Treasurer's report read by Joe Ferrara. Ac-
cepted as read.

Old Business:

1. The June invitational fly-in is to be limited to one area club. President Jeff Joos will discuss a suitable date for inviting the Wingmasters with John Nagle at RC Hobbies.
2. The electric fly-in is scheduled for Saturday August 26 with Sunday August 27th as the rain day. Volunteers are needed. See Bernie Zoppa.

New Business:

3. The members voted to change the December raffle prize from cash to electric equipment.
4. The members voted to add a field safety rule, viz., to follow manufacturers' recommendations regarding the use of spectrum radios in appropriate applications, e.g., park flyers, electric helicopters, etc..
5. To coordinate RC flight instruction, the members agreed to include a list of the names of the current board members in the new member packet.

Bulletin: Tom Minnich won the 50/50 raffle.

Theory of flight**(a.k.a. Bernoulli's principal)**

Okay, who the heck am I to write an article about flight. After all, I am not an aeronautical engineer!

Recently, I observed two different club members trying to fly some 3D electrics inside and they intended to fly them like their other electric aircraft. Their aircraft were all over the basketball court, but not where they wanted it. All I could think of is a statement by an old friend, " Even an ironing board can be flown if you give it enough power". At the time, there WAS no such thing as 3D flying!

Today, there are many Electric 3D aircraft that have no airfoil, i.e. The wings are as flat as an ironing board. These "planes" are muscle-ed into the air with brute power.

We can all admit that with the right piloting skills, these "planes" do wondrous maneuvers.

But the real facts are: In order to fly an aircraft, the wing requires an airfoil to provide lift.

Too many times we see people that join this hobby of flying R/C aircraft and have never been taught or learned the basics of flight.

When you see these people, either spend time explaining the basics OR direct them to the people that will take the required time. If you do this, these people will stay with the hobby and FLY FOR THE FUN OF IT.



How much Dihedral is required? Recently observed at the court! And it flew great!!

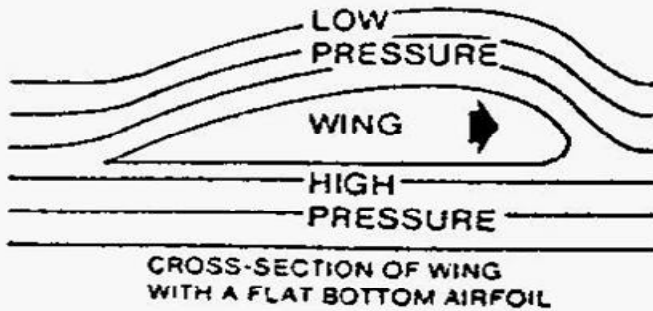
MORE ON Bernoulli's Principle

Why Do Planes Fly? Daniel Bernoulli - Theory Of Flight Science

By Paul R. Wonning

Why Do Planes Fly? The science of flight is a fascinating subject!

The sketches and text below explain briefly the science of why a plane flies. This is not meant to be a fully scientific or flawless depiction of the principals involved. It is meant merely to help the modeler understand the forces acting on the model plane and to assist in building a better plane after these forces are understood. Daniel Bernoulli's theory briefly discussed. Model aviation is easier if the basic theory of flight is understood and the parts of the aircraft which make flight possible.



A wing is constructed using a design called an airfoil. This wing design, when pulled through the air by the airplanes motor and propellor, causes **LIFT**. This force lifts the plane off the runway and into the air.

This **LIFT** occurs because the wings design causes air to flow faster over the top of the wing than it does under the wing. The air pressure is lower on top of the wing than it is below the wing. The High Pressure air under the wing lifts the plane into the air utilizing Bernoulli's Principal.

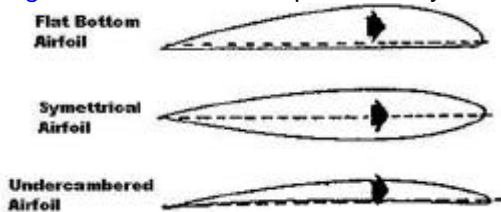
The Four Forces Acting On An Airplane

Lift The energy of air on the top and bottom of the wing create **LIFT** which keeps the plane in the air.

Thrust The pulling power of the propellor and the strength of the engine create **THRUST** which pulls the plane forward.

Gravity The earth's **GRAVITY** acts to try to pull the airplane down to the earth's surface

Drag Friction between the plane's body and surrounding air creates the **DRAG** which holds the plane back.



The airfoil shape has many designs, depending on the type of airplane it is to be used on.

FOR SALE

BSD Skeeter w/ JMP narrow band receiver (RTF) 3 145ma li-po batteries, add'l set of plug and play actuators (4 total) + extra KP-00 mtr. Include is a Dynamics Unlimited charger. \$175 for everything.

SOLD

FOUND

Leather Hat— left at the December meeting!

The owner can either contact Jeff Joos, OR Come to the March meeting to claim this item.



SPEKTRUM

DX6
6-Channel, 10-Model Memory
DSM Parkflyer and
Micro Helicopter System



This radio system has been the main subject of discussion at the club meetings, field and phones calls from other clubs. There are many statements and magazine articles made by anybody and everybody. Some are true and some are Myths.

- 1: The range of this system is: a) 500ft b) 1500ft c) Line of sight (i.e. 1/2/5 miles)**
- 2: FCC has fully approved this system. True or False?**
- 3: AMA has fully approved to use this system. True or False?**
- 4: This system is safe to use with Glow engine powered aircraft. True or False?**
- 5: This system is safe to use with Large scale aircraft. True of False?**
- 6: This system is safe to use with all 3D aircraft, in all maneuvers. True or False?**
- 7: This system has a "FAIL SAFE" setup> True or False?**
- 8: SMAC will allow all members and guests to use this system at their own risk at our field. True or False?**

Continued on the next page:

9) The safety officer should be informed so as he (she) can handle any safety violations. True or False?

10) Who is the safety officer?

11) Since we are an AMA chartered club, any AMA member can fly at our field. True or False?

The Official Authorities have been contacted and the Truths will be available at the MARCH Club meeting.

See you there!!

BernieZ

THIS SPACE IS RESERVED FOR
YOUR PICTURES AND
ARTICLES!

Calendar of Events

NEXT CLUB MEETING

March 7TH

Location: Asbury United Methodist Church
104 E. Clark St (Rte #41)
North Hampton, Ohio

Fridays, 9am to 12 noon, Electric Flying (while school is in session)

August 26th Electric Fly-in/Fun Fly

Location: SMAC Field, Spence Road
North Hampton, Ohio