

Thrustline

The Newsletter by and for the Springfield Model Airplane Club

Website - <http://www.smacoh.org>

Volume 9

September 2004

Officers 2004

President
Bob McWilliams

Vice-President
Jeff Traub

Secretary
Joe Ferrara

Treasurer
Tom Minnich

Board Members

Jim Miller
Neil Perkins
Bob Riffle
Chad South

Past President/
Safety Officer
Clem Schmid

Field Marshal
Don Barns

Assistants 2004

Mower Maintenance
Phil Henry
Steve Kianka

Work Liaison
Neil Perkins

Newsletter Editor
Clem Schmid

“YOUR FIELD NEEDS YOUR HELP”

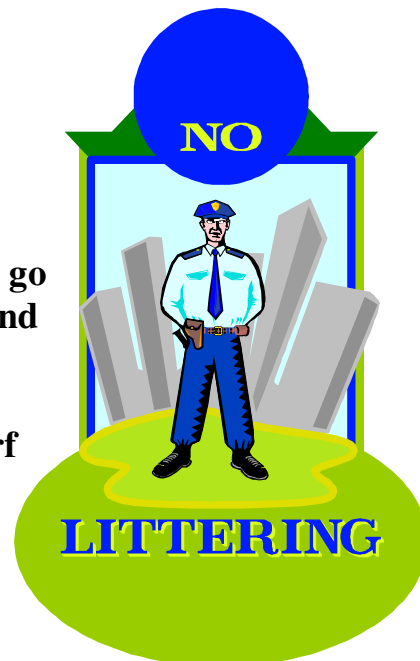
What you bring to the field needs to go home with you. Police your ‘Pit Area and your Parking Area.’

A marked increase in debris and turf damage is evident.

All Cigarette Butts and Filters are to be removed.

All Bottles and Caps are to be removed as well as broken Props and other aircraft parts and pieces.

Spilled “FUEL” is killing the grass. Our field rules require the use of an overflow container to catch the excess during A/C fueling.



“NIGHT FLIES TO CONTINUE”

The “Night Fly” will continue follow the regular Club business and Board meetings held at the Field.

Bring your BUG spray and enjoy the evening. Jackets are also good on a cool evening.

All RC aircraft decorated in lights for orientation are welcomed. The lights may also help recover the aircraft from this year’s tall corn.

Minutes of SMAC meeting, August 3rd, 2004

The meeting was held at the club flying field and was called to order at 7:00 PM by Club President Bob McWilliams. There were approximately 36 members in attendance.

Secretary's Report

The report was read by Club Secretary Joe Ferrara. The report was then accepted as read.

Treasurer's Report

The report was read by Club Treasurer Tom Minnich. The report was then accepted as read. Additionally, Tom stated the club currently has 90 paid members and the raffle fund stands at \$159.50 as of this date.

Old Business

Picnic: The club annual picnic is tentatively scheduled for Sunday, the 12th of September.

Control Line Event: The U-control event is still scheduled for Saturday, October 9th with a rain date of Sunday the 10th. Anyone interested in participating should contact the event directors, Ted Teach and Clem Schmid.

Tractor Maintenance: Harold Dickerson had previously stated that due to health issues, he will not be continuing with the tractor maintenance and will be giving up the job this week. Steve Kianka and Phil Hemry have since volunteered to take over the job. Special thanks go out to Harold for his years of valuable service to the club.

Transmitter Stand: The transmitter stand is now back in place. Thanks go out to Clem Schmid for his help with the effort.

Night Fly: The event is on for tonight following the meeting. Anyone with an electric airplane who is interested is invited to participate.

New Business

Membership List: The newly updated membership list is being distributed tonight by Tom Minnich.

AMA Insurance: Clem Schmid addressed the club and talked about insurance coverage. He advised the membership that contrary to what some people might think, AMA insurance is secondary to any other coverage that any flyer might also have, including home owners or renters. If you have questions concerning coverage, you should first check with your insurance carrier or agent to see what items relating to model aircraft are included or excluded from your policy.

Sunday Curfew: There have been several reports of late concerning excessive noise at the field, especially on Sunday

mornings. Following a discussion on the matter, Azarr proposed a motion for SMAC to invoke a 10:00 AM Sunday morning curfew for any gas powered models. Soaring models and electrically powered aircraft would not be subject to this rule and would be free to fly at any time. After a short discussion of the matter, the motion was seconded by Jim Miller and was put to a vote. Members **FOR** the motion—24, **AGAINST**—3. President Bob McWilliams declared the motion carried.

Club Unity: Following several recent internal disputes, John Burns addressed the members tonight on the issue of club unity. John stated that in order for SMAC to continue functioning, all members should learn the importance of working out problems with other club members and not let differences to become a lever for tearing the club apart. Internal cooperation and communication between members is paramount for SMAC to continue providing an environment for our hobby.

Board Meeting: The next scheduled Board meeting is the third Tuesday of August (August 17th) at the flying field at 6:30 PM. All club members are invited to attend.

Club Meeting: Next month's meeting will be the final outdoor meeting of the year. We will be moving back to the Asbury Methodist Church in North Hampton beginning in October.

At the conclusion of the meeting, the 50/50 raffle was held and Buzz Massey was the winner of the \$14.00 prize.

There being no further business, a motion to close the meeting was made. The meeting was closed at 7:44 PM.

Respectfully submitted,

By Club Secretary

Joe Ferrara

SMAC Family Picnic 12 September 2004

10:00 AM — Start flying activity
10:30 AM — Move Grill to Shelter
11:00 AM — Setup Serving Tables
12:00 Noon — Fire-up Grill
1:00 PM — Food will be served

SMAC will provide the Hamburgers, Hot Dogs, Buns, Condiments, Soft Drinks, Ice, Napkins, Plastic flatware, cups and plates.

Members are to bring a covered dish, chairs, small table and shelter.

Minutes of SMAC Board Meeting, August 17th, 2004

Tonight's meeting was held at the club flying field. The meeting was called to order by Club President Bob McWilliams at 6:30 PM.

Secretary's Report: The report was read by Club Secretary Joe Ferrara. The report was then accepted as read.

Treasurer's Report: The report was read by Club Treasurer Tom Minnich. The report was then accepted as read. Additionally Tom stated that the club membership stands at 91 and there is currently \$173.50 in the raffle fund.

Old Business

Picnic: The club's annual picnic is still on schedule for Sunday, the 12th of September. The rain date will be the following Sunday. Attendees can come at any time with flying activity commencing at 10:00 AM. **FOOD WILL BE SERVED BEGINNING AT 1:00 PM.** Members are requested to bring a covered dish, the club will provide hot dogs, hamburgers and cold beverages. Clem Schmid said he will take care of the drinks and ice. Tom Minnich stated he will get the hamburgers and hot dogs. Bob McWilliams will get the buns and condiments.

Control Line Event: The U-control event is still on schedule for Saturday, October 9th with a rain date of Sunday the 10th. Anyone interested in participating should contact the event directors, Ted Teach and Clem Schmid.

Tractor Maintenance: Steve Kianka and Phil Henry have taken over the maintenance from Harold Dickerson. If a maintenance item is noted, list the topic on the "**Yellow Pad in the Barn**" or contact Phil or Steve directly. Special thanks go out to Harold for his years of valuable service to the club.

Shelter hole in the roof: The matter is still open.

Flying Angles picnic: Although we were a little late in finding out, SMAC was invited to participate in the Flying Angels' picnic at New Carlisle airport which was held Sunday August 15th. Despite the late notice however, there was still a good turnout by the Club. A number of members flew their planes and we were rewarded with a fine lunch in return.

New Business

DOGS Show: The annual **Dayton Ohio Giant Scale** show at Wright-Patterson AFB is scheduled for Labor Day weekend, September 3-5. The event is free and open to the public and is held behind the Air Force Museum. You can get there from the entrance on Springfield Street. This is one of the most popular R/C events in the entire area and if you like the giant scalers, it's the place to be.

Field cleanliness: It's been noted lately that an excessive amount of cigarette butts (and other trash) have been found

lying around the field. **SMOKERS ARE REQUESTED TO PLEASE CLEAN UP AFTER THEMSELVES.** Because of problems associated with waste collection and disposal, trash barrels are NOT provided. Each flyer is asked to please take care of their own waste.

Next Board Meeting: The next Board meeting will be held on the third Tuesday of September at the Club flying field, weather permitting. Please be advised this will be the last outdoor meeting of the year.

There being no further business, a motion to close the meeting was made. The meeting was closed by President Bob McWilliams at 8:10 PM.

Respectfully submitted by Club Secretary
Joe Ferrara

Heat Treating Music Wire Roy Vaillancourt

Oakville Model Flying Club, Guelph, Ontario, Canada

The music wire used by modelers to make landing gear and cabin struts is medium carbon steel heat-treated to spring temper or about 45 on the Rockwell C scale of hardness (RC45). On this scale RC20 is soft, RC45 is tough, and RC60 is hard. Tough wire can be bent and cut using the proper tools and techniques, but sometimes its just too difficult to work with.

One way to soften steel music wire is to heat it, which makes it easy to bend and form. But after heating and forming, the subsequent cooling, often at an uncontrolled rate, can make the finished wire too hard or too soft since its hardness is determined by the rate at which it cools. For some parts, the final hardness isn't critical. But a landing gear formed from wire softened too much won't spring back to its original position; and a gear made from wire cooled to a harder than normal state will snap on its first use. To restore the wire to its original specific temper, it must be heat-treated a second time and cooled at a controlled rate. To form wire easily, first anneal it; next, form or bend it to the desired shape; and then heat-treat the part back to spring condition, that is, temper it.

First the wire should be annealed at the location to be bent. To anneal it, heat the wire with a torch until it becomes a bright cherry red, about 1400 degrees Fahrenheit. Let it cool completely to the touch. Don't quench it or blow on it. Just let it cool naturally away from any drafts. The wire should now be in the RC25 soft range, and it will bend easily. After forming, once again heat the wire with a torch until it becomes bright cherry red, but this time quench it, that is, cool it rapidly by immersing it in room temperature water. Plunge the steel into the water with a twisting, swirling motion to keep water vapor from insulating the wire against the cooling action of the water.

At this point the wire should be very hard, probably above RC60. To test the hardness, try to make a mark on the worked area with a file. The file should slide off without cutting into the steel at all. If it cuts the wire, try the heat and (cont. on Pg 4)

Aircraft of the MonthThe Navy's New Stealth Prototype

This prototype will be known as the F/A-37. Although the specs are classified, it is believed to be a Mach 3.5+, super-cruise stealth fighter/bomber/interceptor with a 4000 nm range.

Heat Treating Music Wire: Continued

quench cycle again. If the file still cuts the wire, it isn't high carbon steel. Get another piece of wire and start over. When the file test signals success, the wire is ready for the final step, but not for use, because it's very hard and quite brittle, and will probably snap off.

The final step is to temper the wire back to the desired hardness. Tempering is a form of annealing but is controlled so that the steel achieves a specific hardness. Start by sanding the wire with steel wool or emery cloth. Then heat it gradually with the torch. Watch for the following colours as a guide: straw colour (350 degrees), followed by dark blue (600 degrees), and then medium blue (750 degrees). At this point, remove the wire from the heat and allow it to cool slowly. Don't quench it or blow on it; just let it cool naturally in still air. Once the steel returns to room temperature, it should be at the target RC45 hardness, which has good spring temper. Try the file test again. You should be able to make a mark now, but only with some effort.

Besides parts for model planes, tempered music wire can also be used to make special tools. In stead of tempering to 750 degrees (medium blue), stop at the straw colour stage. The wire will be at about RC60, which is still very hard, but not brittle. It can be used to drill wood and plastic, most aluminum and copper.

Calendar of Events

- 7 September 2004 SMAC Club Meeting — 7:00 PM
Location: Club Field
Spence Road, North Hampton, Ohio
- 12 September 2004 **Family Picnic Covered Dish Affair**
Location: Club Field — 1:00 PM (Rain date 19 Sep)
Spence Road, North Hampton, Ohio
- 21 September 2004 SMAC Board Meeting —6:30 PM
Location: Club Field
Spence Road, North Hampton, Ohio
- 5 October 2004 SMAC Club Meeting — 6:30 PM
Location: Asbury United Methodist Church
104 E. Clark St (Rte # 41)
North Hampton, Ohio
- 9 October 2004 12:00 noon (Rain date 10 Oct. 1:00 PM)
SMAC U-Control Event
Location: Club Field
Spence Road, North Hampton, Ohio
- 19 October 2004 SMAC Board Meeting —6:30 PM
Location: To be announced
- 2 November 2004 SMAC Club Meeting — 6:30 PM
Location: Asbury United Methodist
Church, 104 E. Clark St (Rte # 41)
North Hampton, Ohio.
- 16 November 2004 SMAC Board Meeting — 6:30 PM
Location: To be announced
- 26 November 2004 **SMAC SWAP MEET**
Setup: 6:30 AM
Location: VFW Auditorium
1237 E. Main Street
Springfield, Ohio
- 7 December 2004 SMAC Club Meeting—6:30PM
Location: Asbury United Methodist Church
104 E. Clark St (Rte #41)
North Hampton, Ohio
**(This date is subject to change due to church
Christmas functions)**

Fall, Winter, Spring
Board Meetings

The Board is looking for options/places to hold their meeting during the Fall, Winter and Spring time period as the Asbury United Methodist Church may not be receptive to our meeting there twice a month. The place/room needs to be large enough and private; able to hold the Board(9) plus 5 to 10 Club members.