

The Transmitter

Suburban RC Barnstormers - P. O. Box 524, Bloomingdale, IL 60108

AMA CHAPTER 640

IMAA CHAPTER 194

DECEMBER 1995

★ HAPPY HOLIDAYS ★

Merry Christmas and Happy New Year



Thank you. Thanks to all for the hard work, the commitments, and all the time spent that made 1995 a great and safe year for our club. Keep up the good work. We're looking forward to another great year in 1996. Hope Santa Claus is good to all, can't wait to see the new airplanes at the meetings and especially flying next spring, when it's warmer (brrrrr), at the field. Have a safe and happy holiday season.

Ron

Upcoming Events



December 17th - 1/12 Scale WWII Combat Winter Warm Up, 11:00 A.M. at Pratts Wayne Woods.

December 18th - Entertainment Meeting at the Bloomingdale Public Library, 7:30 P.M.

★ CHRISTMAS RAFFLE ★

January 15th -Business/Entertainment Meeting at the Bloomingdale Public Library, 7:30 P.M.

January 25th - Board Meeting at the Bloomingdale Public Library, 7:30 P.M.

February 5th - Business Meeting at the Bloomingdale Public Library, 7:30 P.M.

DECEMBER 18TH MEETING

Our December 18th Entertainment Meeting, our *Christmas Raffle Meeting*, will be in the room that we normally meet in at the Bloomingdale Public Library. The demolition originally scheduled of that library area has been postponed until after Christmas.

AIRPLANE RAFFLE

Mrs. Jim Paulus has graciously donated a completely built, ready to fly, 40 size Dynafite Cessna, included is an engine and a 4 Channel Futaba AM Radio. Mrs. J. Paulus with the help of Winston Van Dame is very happy to announce that the plane will be raffled at our Dec. 18th, Christmas Raffle meeting. The is a very special raffle; you must be no older than 16 and present at the Christmas Raffle meeting on Dec. 18th to be eligible to win the airplane. So, for all of our young aviators out there, be sure you attend the Dec.18th meeting for this special one-of-a-kind raffle. A special **Thank You** to Mrs. Paulus and Winston for this very generous donation.

Merry Christmas and Happy New Year

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The Transmitter

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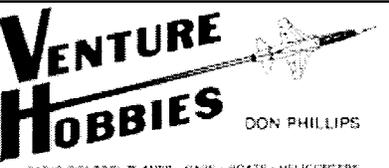
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Think Safety

SUBURBAN RC BARNSTORMERS
Notes of Entertainment Meeting on Nov. 20, 1995

CALL TO ORDER/NEW MEMBERS/VISITORS

The meeting was brought to order at 7:39pm. Seventy members were present. There were no guests present.

QUICK BUSINESS

President: Ron Walker reported that the schedule for 1996 was established at the November 15th board meeting. This will be included in the next newsletter.

Ron also said that a proposed 1996 budget would be included in the next newsletter. This budget is based on our expenses history and planned events for 1996. Spending this money requires the approval of a majority of the membership.

Ron mentioned G & D Hobbies was back in business at a new location. His business card will be included in our next newsletter.

Fun-Flys: John Nowicki said he was looking for volunteers for next years Fun-Flys. He said some changes will be made from this years events. A meeting of volunteers will be held before the start of the next meeting.

Fuel Order: Steve Driza provided additional information on a bulk fuel order. To simplify an order consisting of 55 gallon drums, he suggested a single oil mix and nitro content be ordered. A Red Max order with 15% nitro and oil consisting of 25% castor would cost \$8.25 per gallon. A show of hands verified that most members agreed to this approach. Steve can provide bottles and can safely store the fuel where he works until distributed. Red Max has said that the temperature must be above 30 degrees during shipment, so the order may be delayed by weather, but will be shipped as soon after the order is placed as weather permits.

Combat Competition: Dave West discussed the possibility of holding combat events. He briefly outlined the rules and said these would be held informally on several weekends throughout the summer. Attempting to hold a Fun-Fly, Four Star 40 race, and a combat competition would be too much for one day. Dave and Matt Hamm both had lists of kits and plans available for combat aircraft.

PLANES

Glen Gros showed the club his ZIG Corsair combat plane. It is powered by an OS .20 FP and is all foam. The instructions say "Don't spend too much time on the finish". Good advice since a combat planes life can be short.

Steve Driza brought in his Avistar 40. His red, white, and blue model was flown for a season, never crashed, and is in good shape. Steve is looking to sell this model for \$50.

Ken Leander displayed his recently completed Focke Wolf 190D. It is scale and has operating flaps. It was built from a kit that is no

longer manufactured. Could be that this kit was too much work. Ken says the kit was as close to scratch built as you can get out of a box.

DOOR PRIZES/ROLLOVER

Hugo brought in a Hobbico Mini Tach for the door prize. This was taken home by **John Nicastro**. Chester Mylar took home a Super Tiger .90 by picking the winning square in the rollover raffle.

TURKEY RAFFLE

The main event was the annual Thanksgiving Turkey Raffle. This year \$200 dollars worth of turkeys were taken home by the following. Congratulations and Happy Thanksgiving!

Joe Cacciatore, Vic Caricato, Calvin Defenbau, Steve Driza, James Elsner, Joe Eskert, Matt Hamm, Bob Hellem, Scott Henderson, Ron Hilger, Wilhelm Janisch, John Krygier, Tom Krygier, Debbie Larson, Jim McCorkle, Chester Mylar, Jess Porter, Al Rosso, Jim Scahill, John Sukup, Lou Taddeucci, Carl Ubert, Chuck Wiebler, and Joel Whitaker.

ADJOURN

Meeting was adjourned about 8:45pm.

SUBURBAN RC BARNSTORMERS
Notes of Business Meeting on November 20, 1995

CALL TO ORDER/NEW MEMBERS/VISITORS

The meeting was brought to order at 7:32pm. Fifty three members were present. Jim Comiskey and his son Bryan were checking out the goings on. Dad suspected there may be something with wings under the tree for Bryan this year. Matt Hamm's son was visiting. Sorry, I didn't catch his name.

OFFICER REPORTS

President: Ron Walker said all the prizes for the Christmas raffle have been purchased. Special thanks go to Simon Hernandez, Hugo Mosquera, and John Sikorcin (along with Ron himself) for their help. Al's Hobby Shop provided a generous discount along with some "freebies".

Ron reminded everyone that the proposed 1996 budget would be included in the next newsletter. The membership will need to vote its approval for the budget at the Christmas meeting. Please review it so any questions you may have can be answered.

Ron said the Forest Preserve permits would not be available until January 1st this year.

Ron reported that we were told our meeting room was scheduled for

demolition before our meeting on the 18th and that we would move to the craft room. We will inform members via the newsletter if a change in meeting location was necessary. *NOTE: We were informed by the Library the next day that demolition was being postponed until after our Christmas meeting. However, we will be in the craft room on January 15, 1996.*

Vice-President: Hugo Mosquera thanked Jim Scahill for donating a heavy duty wire bender for a door prize. Hugo also had some epoxy, CA, and a Z-Bender for door prizes, and again, thanks go to Al's Hobby shop.

Hugo provided a short history of engine innovations with the display of a 1934 Irwin/Olsen engine that introduced the ability to shut off the engine by cutting off the air supply. In those days, cut-off was provided by a spring and compressed air piston since there were no servos. Another 1934 engine made in Britain used a simple two position throttle. In 1938 a carburetor with a full range throttle was introduced that is almost identical to the carburetors used today.

Treasurer: Larry Mihalik reported a balance of \$916.31 with all bills paid to date. This is the largest dollar amount we have carried over from one year to the next and will ensure adequate funds for Swap Shop preparations.

Secretary: Scott Taylor passed out copies of the 1996 schedule of events.

Scott also said two old calendars with pictures of military aircraft were brought in by **Calvin Defenbau** to be taken by anyone interested. Thanks Calvin!

COMMITTEE REPORTS

Fun-Flys: John Nowicki reported that a meeting of fun-fly volunteers was held before tonight's meeting. The fun-fly directors have been selected. They are: Fun-Fly #1 - Joe Stetina and Steve Driza; Fun-Fly #2 - Jeff Peca and Jim McCorkle; Fun-Fly #3 - Jim Scahill and Jim Walden; Fun-Fly #4 - Winston VanDame and Hugo Mosquera; Fun-Fly #5 Matt Hamm and Scott Taylor. John Nowicki, himself, will direct the Top Gun fly-off. Another meeting will be held before the Christmas meeting, so if your still interested in helping, please be there!

Flight Instruction: Simon Hernandez said that the first ground school class would be held at 6:30pm on January 15th before the regular business meeting. A sign-up was circulated.

OLD BUSINESS

Fuel Order: Steve Driza provided additional information on a bulk fuel order. To simplify an order consisting of 55 gallon drums, he suggested a single oil mix and nitro content be ordered. A Red Max order with 15% nitro and oil consisting of 25% castor would cost \$8.25 per gallon. A show of hands verified that most members agreed to this approach. Steve can provide bottles and can safely store the fuel where he works until distributed. Red Max has said that the temperature must be above 30 degrees during shipment, so the order may be delayed by weather, but will be shipped as soon after the order is placed as weather permits. **Swap Shop: Orvil**

Fluharty says it's "on schedule"!

Combat Competition: Dave West reminded everyone a combat demonstration would be held on December 17th (weather permitting). If temperatures drop below 20°F, or winds exceed 15mph event will be scrubbed.

NEW BUSINESS

Transmitter Stand: Glen LaRocco asked if the transmitter stand should be left at the field this winter. Since it will be replaced by the winning new design, it was decided to leave it at the field.

Young Member Model Raffle: Winston Van Dame suggested including a raffle for members under 16 years of age. Winston offered to donate a trainer with engine and Hugo was able to obtain a transmitter and servos from Mrs. Paulus. Sounded like a good idea, and will likely be a reality.

PLANES

Dave West showed the members another ZIG combat plane. This one was a Spitfire. These are all foam kits and Dave finished his in a Russian paint scheme (white with red markings) in econocoat. No equipment has been mounted in this plane yet, since it will be Dave's backup. Empty weight is 13 ounces.

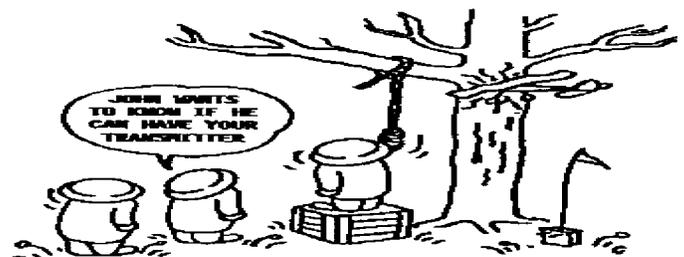
Steve Driza brought in his new Great Planes Big Stick. Similar to the more common Sweet and Low, it is finished in the traditional red and white with black markings. This is a .40 size plane, but Steve is powering it with a Super Tiger .60 he picked up for \$5.00 at a garage sale. (Before you say, "What a deal!", he did have to replace the bearings in the engine)

Winston VanDame displayed his .40 size Kaos build from a Direct Connection kit. Winston said he was taught "if you can't say something nice, don't say anything at all". There was a moment of silence. However, he did add that due to his superior building skills, the final result was quite flyable.

DOOR PRIZES/ROLLOVER

John Nowicki, Jr. won a bottle of odorless CA in the name tag raffle. Bob Elsner won a Z-Bender and Jeff Erickson won some epoxy in the door prize drawing. There was no winner in the rollover raffle.

ADJOURN: Meeting was adjourned about 8:30pm.



Suburban RC Barnstormers



1996 Schedule



January	15th	Business Meeting	Bloomington Public Library	7:30P.M.
January	25th	Board Meeting	Bloomington Public Library	7:30P.M.
February	5th	Business Meeting	Bloomington Public Library	7:30P.M.
February	19th	Entertainment Meeting	Bloomington Public Library	7:30P.M.
February	29th	Board Meeting	Bloomington Public Library	7:30P.M.
March	4th	Business Meeting	Bloomington Public Library	7:30P.M.
March	18th	Entertainment Meeting	Bloomington Public Library	7:30P.M.
March	28th	Board Meeting	Bloomington Public Library	7:30P.M.
April	1st	Business Meeting	Bloomington Public Library	7:30P.M.
April	6th	SWAP 'TIL YOU DROP	Hemmens - Elgin	
April	15th	Static Model Contest	Site to be announced	7:30P.M.
April	5th	Board Meeting	Bloomington Public Library	7:30P.M.
May	6th	Giant Scale Event	Pratts Wayne Woods	9:00A.M.
May	19th	Business Meeting	Bloomington Public Library	7:30P.M.
May	20th	Fun-Fly #1	Pratts Wayne Woods	9:00A.M.
May	23rd	Entertainment Meeting	Bloomington Public Library	7:30P.M.
June	9th	OPEN HOUSE	Pratts Wayne Woods	10:00A.M.
June	17th	Business Meeting	Bloomington Public Library	7:30P.M.
June	23rd	Fun-Fly #2	Pratts Wayne Woods	9:00A.M.
July	15th	Business Meeting	Bloomington Public Library	7:30P.M.
July	21st	Fun-Fly #3	Pratts Wayne Woods	9:00A.M.
August	18th	Fun-Fly #4	Pratts Wayne Woods	9:00A.M.
August	19th	Business Meeting	Bloomington Public Library	7:30P.M.
September	1st	Giant Scale Event	Pratts Wayne Woods	9:00A.M.
September	15th	Fun-Fly #5	Pratts Wayne Woods	9:00A.M.
September	16th	Business Meeting	Bloomington Public Library	7:30P.M.
September	22nd	TOP-GUN Fly-Off	Pratts Wayne Woods	9:00A.M.
September	26th	Board Meeting	Bloomington Public Library	7:30P.M.
October	7th	Business Meeting	Bloomington Public Library	7:30P.M.
October	21st	Entertainment Meeting	Bloomington Public Library	7:30P.M.
October	24th	Board Meeting	Bloomington Public Library	7:30P.M.
November	4th	Business Meeting	Bloomington Public Library	7:30P.M.
November	14th	Board Meeting	Bloomington Public Library	7:30P.M.
November	18th	Ent. Meeting - TURKEYS!	Bloomington Public Library	7:30P.M.
December	2nd	Business Mtg - Elections	Bloomington Public Library	7:30P.M.
December	16th	CHRISTMAS RAFFLE	Bloomington Public Library	7:30P.M.

PAGE #6 SUBURBAN RC BARNSTORMERS 1996 BUDGET

Memberships	1996												76e Transmission		
	January	February	March	April	May	June	July	August	September	October	November	December	TOTAL	December	TOTAL
A. Full	60	25	5	5	3	3	3	3	3	3	3	3	3		110
B. Junior	12	2	1	1	1	1									18
C. Senior	12	1	1	1											15
D. Family	7	2	1												10
E. Gratis	15	3													18
Total Members	106	33	8	7	4	4	3	3	3	3	3	3	3		171
INCOME															
Memberships	1770	648	150	144	84	84	72	72	72	72	72	72	72		3096
Swap Shop Income		550	770	2283	210										3813
Savings Interest	8	7	8	12	13	12	11	9	8	8	8	8	8		111
Rollover Raffle			50			50			50						150
Total Income	1778	1205	978	2439	307	146	83	81	130	8	8	8	8		7170
EXPENSES															
MEETINGS:															
Meeting Room	30	30	30	20	20	10	10	10	20	30	30	30	30		270
COPIER:															
Copy Machine			45			45			45						180
Copy Paper			10			10			10						40
Copy Toner			25			25			25						100
Other Supplies			20			20			20						80
Paid Copy Work					50										100
NEWSLETTER:															
Postage	65	65	65	65	65	65	65	65	65	65	65	65	65		780
RAFFLES:															
Meeting Door Prizes	30	30	30	30	30	30	30	30	30	30	30	30	30		360
Turkey Raffle													100		100
Christmas Raffle													700		700
AWARDS:															
Top Gun Award															
MOY Award															
Fun Fly Award															
Four Star Awards						160									160
Static Prizes			150												150
FOOD:															
Fun Fly Food						160	160	80	60						540
Board Meetings			60						60						180
Meeting Drink/Food			20					25	100						40
OTHER:															
Name Badges	50				50		50	50	100				50		200
Field Permits					50	50	50	25	100						275
Safety					50										50
Instruction		50			50			80							100
AMA Insurance		20													20
AMA Charter	20														20
Giant Scale Fun Fly								80							80
SWAP SHOP:															
Raffle Tickets	100														100
AMA Insurance		20													20
Food for Sale			280												280
Hemmens Cost			950												950
Postage	65	50													115
Door Prizes			100												100
Static Prizes			230												230
Raffle Prizes			300												300
Miscellaneous Exp.	50			50			50						50		200
Total Expenses	360	315	2085	395	395	625	365	340	435	175	325	1355	7170		7170

The Wild Blue Yonder

by Winston Van Dame

Other than in the U.S. Air Force song, have you ever heard this common, but uncommon, word used? You hardly ever hear anyone say, "Yonder is a good looking girl", do you? Yet, the opening phrase of this stirring song-- "Off we go, into the Wild Blue Yonder"-- conjures up visions of an airplane speeding down the runway and lifting majestically into the sky, heading for Yonder. Sorta gives you a thrill just thinking about it, doesn't it?

In fact, this thrill will be yours during your first successful take-off, especially after spending countless boring hours on the other end of a training cord. Of necessity, there are some basic features that should be addressed leading up to this challenging event. These tips are offered to novices for consideration over the long, harsh Winter months ahead.

One of the first details is to make sure that your model taxis straight. If it wants to wander to one side or the other on the ground, you need to correct this tendency. The nose wheel on tricycle gear planes should be aligned straight and true-- file a flat spot on the nose gear wire where the set screw on the control arm touches it to help insure a non-slip fit. If you're flying a tail dragger, the tail wheel should be lined up straight with the rudder, not slaunchwise. Also it helps to have both main wheels slightly toed in, equal on both sides. (Don't ask me to explain it -- I'm retired.)

Assuming that your control throws are accurately installed or (God forbid) you have exactly followed the measurements suggested in the instructions for rudder, elevator, and aileron travel (remember, more is not better), you are now ready to give it a go.

One of the neat features of our circular field is that we have virtually 360 degrees available depending on wind direction. The object is to take off directly into the breeze and for starters, it's best to stand out on the field directly behind the plane and attempt to hold a reasonably straight line during the take-off run. Try to do this during a quiet time when no other planes are coming or going so that your fanny does not impede others. Directional control on the ground should come only from the rudder stick; using ailerons for this will cause the plane to tip sideways and likely cause a fancy cartwheel.

OK, now you're all lined up and it's time to advance the throttle gradually, keeping the model lined up straight with rudder only. With tail draggers, you will also want to apply a little "up" elevator to keep the tailwheel firmly on the ground for steering control. As the plane gathers speed, you will shortly sense that it is ready to lift off-- the technical term for this is VIG, which means it has enough "Velocity I Guess."

At this point, apply a little "up" elevator with your right hand to start your take-off climb. Use only enough "up" elevator to get it off the ground and flying-- if you keep pulling the right stick back, the plane will soon go vertical, followed by a stall which sounds like "thud", followed by silence. Continue flying and gaining altitude and speed at which point directional flight control passes to the ailerons. Always plan your departure so that the first turn is away from the flight line.

Make all your flight control movements in easy, small increments. Over controlling the rudder to steer straight can make the take-off run look like a West Virginia road sign. Remember, taking off is always optional. If you're not satisfied with what's happening with your plane, cut the power (!) And start over. Don't attempt to jerk the plane up to avoid a crash or the weeds.

For the first take-off, some say it's helpful to have the Air Force Chorus in the background singing about The Wild Blue Yonder, which is probably an exaggeration. Personally, I think it's sufficient just to hum a few bars to yourself, in case Orville and Wilbur are listening.

Safety Corner

by Bob Hellem

This should be the last article for 1995. It's been a good but busy year and I didn't get near as much flying in as I would have liked, maybe next year.

I would like to take this opportunity to wish every one a very Merry Christmas & A Happy New Year.

With winter upon us there will be many new projects started. This is a good time to remind every one about **Safety** in the work shop. There isn't much new to say about **Safety** that hasn't already been said! Some time ago Scott Thomas gave me permission to recycle some of his articles. The following article written by Scott needs no improvement.

This has been a rather inhospitable winter. Certainly most of you are spending lot of time in your shops building new models. In this month's article, lets take a tour of a modeler's shop and review the hazards we find there. You may be surprised at the dangers that are lurking in the tools and chemicals we use everyday. Dangers in the workshop come in many forms, *Health and Fire risks* are, of course, the most important issue. We must also be careful of the compatibility of some chemicals and building materials we use, as damage to the model or building materials can easily be inflicted. First and foremost on my list are **HEALTH RISKS** and this includes the following categories: *bodily injuries; eye injuries; lung hazards; fire hazards.*

HEALTH RISKS

Bodily Injuries, for the sake of this discussion, are typified by those that cause the removal of or damage to your skin and are normally inflicted by tools. These injuries typically occur to the hands. All too often injuries are incurred because the builder was in too much of a hurry to safely hold or locate the work piece before performing a cutting operation. Beware of injury from the following tools: Razor blades; Xacto knife; Dremmel; drill bits; newly cut metal sheet or tubing; thin music wire; propellers (APC especially); band saw; scroll saw; power sanders, covering iron; soldering iron; propane torch; heat gun.

Eye Injuries are nothing to mess around with. There is one simple rule to follow and that is **wear eye protection** when working with any power tools. Safety glasses are cheap and no one has an excuse for not having a pair. There is no excuse for not wearing them and that's it. Be especially wary of the following situations for eye hazards: grinding metal; drilling metal; soldering with a torch; doing anything with a Dremmel tool.

Lung Hazards are prevalent when using a variety of chemicals such as glues, paints, and solvents and when creating **dust** from sanding or grinding. In general you must be careful that toxic or harmful fumes can not build up to a harmful concentration when using these substances. Beware of concentrated fumes from the following substances; Cyanoacrylate (CA) glue; polyester resin; acetone; paint thinner, ammonia; all type of sprayed paints; Balsa Rite; dope. Most of these substances emit noxious odors. While working with any of these substances pay attention to your nose. If the smell of something is real strong while your working with it, either limit the amount being used at one time or work where there is more adequate ventilation. Ron Walker can help you out as far as paints and spraying are concerned as he has a lot of spraying equipment and does a lot of model painting.

In the home, where most of us work, getting a ventilated area isn't always easy. Opening a window only helps if there is actually **air flow** through the room. For example; my workshop is in the basement, there is only one window and it is below ground so there is no way to get natural airflow. The furnace does circulate some air while the blower is running, but not a whole lot. So, for really "stinky" activities I go up to the garage and work there with the door open. Another alternative is to use a *respirator mask*, which has a

significant amount of air filtering. The appearance of these masks are typified by having **filter canisters** hanging on the front. The plain paper *filter masks* just barely work for protection from **dust**, but offer **no protection** from chemical fumes.

Fire Hazards are the greatest danger of all because no one wants to *burn the house* down. We modelers are really stuck here, as nearly every container of stuff in my shop has that warning label on it that warns you about the contents being **flammable**. The premise here is that **everything is flammable** and you must always be aware. When dealing with chemicals ask yourself the following questions: How flammable is it?; How much do I use?; How much needs to be kept in the shop area?; Are the containers marked clearly?; Do all containers close properly?; Are there open flames near the work area?; Do I have a fire extinguisher?; Am I prepared to clean up a spill?; Where is the First Aid Kit?.

In my basement there are three gas burners operating regularly and they are the **furnace**, the **water heater** and the **clothes dryer**. Because there are **open flames** present one must be very careful that no combustible fumes build up to an explosive concentration, or else **BOOM**. Some simple philosophies can prevent this from ever happening such as: Do not store large quantities of any chemical, including **fuel** in the workshop; only keep on hand small amounts, such as a **pint** size, in clearly marked, preferable the original containers; use metal containers when possible; dispense from even smaller containers to limit the possible size of a spill; Make sure all chemicals are put away before using any other open flame such as a **propane torch** for soldering; Keep containers closed, open them only when necessary, re-close and put away as soon as possible, clean up spills quickly, Don't give different chemicals a chance to mix from a spill, etc.

AVOIDING THE DANGER

CUTTING: Find a way to hold a work piece before making a cut. This keeps the cutters' path straight so it can't wander toward your fingers. Keep your fingers clear! The direction of a cut should always be away from fingers. Have a good hold on razor blades or knives. Use the right cutter for the job. Take your time, watch your fingers when using a metal straightedge as a cutting guide, one can easily be over the edge on the cutting side.

DREMEL TOOLS: No matter what the operation, these tools generate a lot of dust and small high velocity particles, wearing safety glasses is never an option with this tool. Use a dust mask when removing a large amount of material such as making a large hole or cutting a bolt, be aware of direction the bit is spinning and try to work such that if the tool grabs the work piece it will not walk over to a finger. The easiest way to avoid this problem is to clamp the work down so that your hands are not holding it at all. As a side benefit of clamping the piece down, holding the tool with both hands allows much more accuracy. Remember to deburr metal edges as they are often sharp and jagged after a cut. Try to work such that the direction of the debris flying off the tool is away from your face, especially when cutting metals. Metal dust is very harmful to other equipment such as **engines** and **radios**, so **know where that dust is going**. Cut-off wheels generate a lot of fine dust and hurl it quite a distance. The stone wheels explode when they jam at high speeds and this sends high speed stone fragments flying in every direction.

DRILLING: Always drill holes away from yourself. Be very careful of the exiting drill bit getting a finger or a hand, it happens! Clamping the work down and keeping your hands off is always the safest way to proceed, especially with those long drill bits. Wood likes to be drilled over a drilling board, which is a piece of scrap plywood off the garage floor. Using a drilling board eliminates dangerous **wood splinters** that are otherwise created. Always clean off splinters before handling the piece, they'll get you sooner or later.

POWER SAWS: Turn on the saw only for the duration of a single cut. Have your cuts planned and well marked. Keep your fingers away from the blade and an easy way to do this is to **set the blade guard lower than finger height**. Move the piece at a slow and

steady speed to prevent the blade from jamming and breaking.

SOLDERING: Soldering is a dangerous activity no matter how you slice it as it involves *using heat to melt metal*. Two types of soldering used in modeling are **tin-lead** soldering normally done with an electric iron or **silver** soldering normally done with a propane torch. Lead solder has a melting temperature of around 700°F, and this amount of heat can cause *severe burns*. Silver solder has an even higher melting temperature, around 850°F. Commonly soldered model items are; control rod ends; landing gear supports; bi-plane wing supports; control wires. Never kid yourself into believing that it is possible to hold something in your hand while soldering the other end of it. Heat travels quickly, and just about the time one end will "tin" the other end is *burning your hand*. Be safe, and always use a vice to hold the work piece and pliers to hold the other parts, **not your fingers**. Cleaning the metal with some fine sandpaper will allow for rapid tinning and reduce the amount of time it must be heated to get solder to stick to it and then complete the joint. Remember that the parts will retain enough heat to burn you for some time afterward, so just leave them cool. It is not a good idea to **plunge** a hot, newly soldered piece **into water to instantly cool it**, as the rapid cooling tends to make the solder joints **brittle** and therefore **unsafe**.

Soldering safety list: Have a soldering iron holder, this prevents the iron from coming into contact with things you don't want melted, such as the soldering iron's power cord; Clean the tip with a damp sponge, not your finger; Tin both pieces to be soldered and then **reflow** the solder to join them together; Keep your fingers off the work piece until it has cooled. Have someone help you if you have no experience soldering; Don't plunge hot pieces into water to cool them; Use a torch only in areas where there are no combustible materials or chemicals; Silver solder flux is a powerful acid, avoid getting it on your skin and if you do wash it off immediately with a solution of **baking soda and water**.

COVERING: A covering iron can get *nasty* enough to cause painful burns. Set yourself up such that motions of the iron are away from your other hand. When covering a large awkward object like a wing, it helps to anchor it down on the other end by piling books on the other end, etc. Of course there is no substitute for having a helper person to hold the other end while you heat and stretch. Beware of those heat guns! They produce a lot of heat, often with no heat control. It is easy to get too close and burn right through the covering. Be very careful about what the heat gun is pointing at; like stuff on the bench such as glue bottles wood or paper, things you don't want to heat, or start a fire.

DANGER TO THE MODEL

FOAM EATERS: A surprising number of chemicals **destroy styrofoam** that is used in making wings and stab cores. The list includes: Cyanoacrylate (CA) glue; Balsa Rite; Acetone; dope cement; some paints. Balsa Rite and Acetone instantly eat a big hole all the way through. CA works slowly, but eventually eats a path all the way through (to China). Really awful, noxious fumes are generated by this reaction. Use only **EPOXY** or the "*odorless*" type of **CA GLUE** on foam cores.

FUEL: Will quickly rot wood and impregnate it such that covering will not stick. Make sure that all surfaces that are likely to come in contact with fuel are coated with either epoxy or polyurethane. The latter is quit a bit lighter than epoxy glue.

FIBER GLASSING: Polyester fiberglass resin will get very hot if too much catalyst is added to the resin. Measure the ingredients according to the supplied directions. Depending on the size of the overdose, it may crack, smoke, or start a smoldering fire. If this happens indoors, get the work out of the house immediately as toxic fumes will build up quickly. Thanks Scott,

HAPPY HOLIDAYS, BOB

1/12 SCALE WWII COMBAT

SUNDAY, DECEMBER 17TH, 11:00AM

-- Winter Warm Up --

Let's get together and do a little winter combat. AMA 704 scale aircraft recommend, but if you've got a similar sized plane (.25 engine max) bring it out and join the fun.

Corsair, Mustang, Spitfire, Zero, Messerschmitt -- what's your favorite WWII fighter? Build on and sample the strategy and excitement of a dogfight. **Don't Hibernate -- Participate!**

If we have a blizzard, temperatures below 20, or winds above 15mph we will postpone the event. (We may be nuts, but we're not crazy.)

NOTE: This is an unofficial, unsanctioned event. The field will not be reserved and general flying may exist.

QUESTIONS: Call Dave West at (708) 837-6553

Editor's Note: Due to the limited amount of space available, we will cover 1/12 Scale Combat in more depth next month.

!!FLIGHT STAND CONTEST!!
--REMINDER--
the prize for the winning is \$50.00

BUILDING TIP

by Jim (Himie) Scahill

Run out of triangle stock? Need to come up with something to use for a gusset? Try this?

Carefully place baking soda, that's right, baking soda where you would normally glue a piece of triangle stock. In other words, we are going to use the baking soda as a material to create a very strong and lightweight gusset. Once the baking soda is in the joint carefully apply, drip thin CA glue in the joint on the baking soda allowing it to soak in. I recommend practicing this before actually attempting this procedure.

!!IT'S TIME!!
-DON'T FORGET-
RENEW
---YOUR DUES---

BULK FUEL ORDER FORM

A one time bulk fuel purchase will be made from Red Max Fuel. 15% Sport fuel will be ordered, which is 15% nitro, 14 % synthetic oil, 5% castor oil as recommended by Red Max. Price per gallon is \$9.00. Fuel will be purchased in 54 gallon drums and stored in a heated and secure warehouse. (Thanks to Joe Stetina) Fuel will be dispensed into clean 1 and 5 gallon poly bottles.

Orders in 5 gallon increments are encouraged for ease of handling.

All orders and payments must be received by January 22, 1996.

Our purchase will be made in January to guarantee the quoted price.

Payments may be made at the December 18th and January 15th club meetings. Or payments may be mailed to Steve Driza no later than January 18th at the address below. Orders received after January 22nd cannot be guaranteed. In order to order our fuel efficiently some adjustments may have to be made to orders to facilitate an order that is near a multiple of 54. (Drum gallon capacity) Distribution of fuel will take place after club meetings in February. Any remaining funds after the sale will be placed in the club treasury.

Club members only please.

ORDER FORM

FOR RED MAX 15% SPORT FUEL

5 GALLON UNITS _____	\$45.00 EA.	\$ TOTAL _____
1 GALLON UNITS _____	\$9.00 EA.	\$ TOTAL _____
		\$ TOTAL _____

NAME _____

DAYTIME PHONE _____

EVENING PHONE _____

Suburban R/C Barnstormers Membership Application / Renewal



Date _____
Name _____
Address _____
City _____ State _____ Zip _____
Home Phone _____ Bus. Phone _____
AMA Number _____ Channels Used _____

Birth date _____

Skill Level Beginner Intermediate Advanced

I have included an additional \$3.00 for a Name Tag

Annual dues are \$24.00 for the primary member and \$6.00 for every additional member under the family plan; Senior citizens, age 65 and over, are \$12.00; and Junior members, under age 17, are \$12.00. Full dues are charged from Jan. 1st to July 31st. After Aug 1st, dues are reduced to half the annual rate.

I agree to accept and abide by the AMA and the Forest Preserve District of DuPage County rules and regulations concerning the handling and flying of my model airplanes.

Signature _____

Membership applications can be brought to a club meeting or mailed to the club at the following address:

Suburban RC Barnstormers
P. O. Box 524
Bloomington, IL 60108



THE TRANSMITTER



SUBURBAN R.C. BARNSTORMERS, INC. P.O. BOX 524, BLOOMINGDALE, IL 60108



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