

Horsefeathers!



Official Newsletter of the Billings Flying Mustangs

Volume 27 Number 2

February 1999

Coming Events

Next Meeting

Monday, February 7th, 2000
7:30 P.M.
828 Main St.

Banquet

Saturday, March 11th, 2000
6:30 P. M.
at
The Feedlot Steakhouse and
Razorcreek Saloon and Casino
5625 Scandia Road
Shepherd, MT.
(see insert)

Billings Flying Events

????

No report from Board yet.

Powell Swap Meet

March 18, 2000
Location: ? Time: ?

Club Officers for 2000

President.....Rick Koehn
Vice President.....Dennis Rollins
Secretary.....Steve Hergett
Treasurer.....Bob Moore

Great Falls Events for 2000

Greetings,

Great Falls Club just scheduled some events for the summer, just thought you'd like to copy the info for your newsletter etc. I use your dates too, to make a statewide event calendar...

April 15	Static Show	Holiday Village
May 21	Combat Meet	Great Falls
June 17-18	Open House Fly In	Great Falls
July 15-16	Scale Fly In	Great Falls
Aug 12-13	Jet Fly In	Deer Lodge

Thanks,
Bruce
Big Sky RC Modelers
Great Falls

UV Warning

Medical Alert

This year at the zenith of its 11-year cycle, our sun is erupting like a cauldron. Will this solar event cause an increase in skin cancer? Higher altitudes increase sun exposure 4% for each 1000 ft. of elevation above sea level.

Wear protective clothing-long sleeves, a broad brimmed hat, tightly woven fabrics, long pants !

Mary and I have both seen a Dermatologist at the Billings Clinic (there are five on staff). Other members of our club are being treated for over exposure to the sun.

Vergil

(Synopsis of magazine article included with this article on page 2.)



From the President

Hello again everyone,

It looks as though your going to have to put up with me as your President one more year. I would like to take this opportunity to thank the past board members and officers for their hard work over the past year. I would also like to thank and welcome the people that have volunteered for the year 2000 to serve our club. By volunteering, these people have committed themselves to the preservation of our club and our hobby/sport. I would like to thank the nomination committee. Being on the nomination committee means that members are going to avoid you like you forgot to use deodorant or something. Again I thank all of you past and present.

What a great turn out we had for our January meeting. I thought maybe the turn out was high because everyone may have wanted to run for President. Such was not the case. Members turned out to voice opinions and to offer suggestions. It was great! I love those kind of meetings, I believe there may have been some unfounded rumors that made some people nervous, and so they came to the meeting in hopes of defending their positions. I'm thinking that. I might start a rumor once a month just to get people to the meetings and to have high energy type meetings such as Januarys. Ron Horton and Brad Johnson had some great contributions as did many others. These kinds of meeting are great fun, so please plan on attending and bring some ideas.

We did have a Board meeting shortly after our January meeting to discuss event schedules. It was very fruitful. It was imperative that we set the schedules as early as possible so that the CDs of the

events could start their planning right away. If anyone has some dates that need to be set aside please let a Board member or officer know as soon as possible so that it can be put on the calendar. My resolution for this year is to have a board meeting once a month so as to stay more organized,

I have said this before, but I really want to restate it. I enjoy volunteering to work events, even though it is not an event that I would enjoy participating in. If you really analyze our hobby/sport it is about 10% flying and 90% socializing. When working these events I have gotten to know many good people that I normally would not have met. You don't have to be an expert in what ever the event is, just an RC enthusiast. I want to make it clear that the club will not "brow beat" anyone into volunteering, but you will be missing a lot if you say no to some of these things. Maybe, just maybe when you put on an event they will say yes to you because you said yes to them. The event coordinators are responsible for coming up with volunteers for their respective event. If you want to have a bunch of fun and learn about various aspects of our hobby/sport, say yes when someone asks you to help out.

Our banquet for this year is at The Feed Lot. I guess that I'm the one organizing it. There will be giveaways and a raffle, along with some fantastic food. It's a great social event so I hope everyone is planning to attend.

Thanks for listening,

Rick Koehn

(**UV Warning** continued from page 1)

Vergil attached an article from the January 2000 Popular Science magazine with his article. I did not scan it in as I didn't not want to infringe on any copyrights. The article had some interesting points that I think bear repeating. It seems that my personal favorite hot sun dress of a bleached white shirt is a poor choice as it has a SPF (Skin Protection Factor) of only 6 or 7! The article goes on to say "As much as 50% of ultraviolet rays penetrate clothing ... especially

true of white or pastel-colored clothes, as well for loosely woven or stretch fabrics..." Some of the possible effects of exposure to ultraviolet rays are wrinkles, age spots, and skin cancer. We have had several cases of skin problems in our flying area over the pass few years. Your best protection? Sun screen, large brim hats, good sun glasses, and proper clothing. There are sunblocks for fabrics that simply wash in when you wash your cloths. *R.E.*

BILLINGS FLYING MUSTANGS BANQUET MENU

THE BANQUET THIS YEAR IS BEING HELD ON SATURDAY, MARCH 11, 2000 AT 6:30 P.M. THE DINNER WILL BE HELD AT THE **FEEDLOT STEAKHOUSE AND RAZORCREEK SALOON AND CASINO** LOCATED AT **5625 SCANDIA ROAD, SHEPHERD, MT,**

PLEASE INDICATE YOUR DINNER CHOICE BELOW AND **RETURN THIS FORM TO LYNN KOEHN, 1312 TERRY AVENU, BLGS, MT, ALONG WITH A CHECK FOR THE TOTAL AMOUNT, PAYABLE TO THE BILLINGS FLYING MUSTANGS. I NEED THIS FORM AND PAYMENT NO LATER THAN TUESDAY MORNING, MARCH 7,2000.**

- 14 OUNCE PRIME RIB \$17.35
- SURF & TURF (8 OZ SIRLOIN & SHRIMP) BATTER FRIED _____ SCAMPI _____ \$17.35
- HALIBUT STEAK \$12.65
- SALMON FILLET \$12.65
- TENDERLOIN STEAK \$17.35
- NEW YORK STEAK \$16.25
- SHRIMP DIAPER BATTER FRIED _____ SCAMPI _____ \$18.25

- APPLEJACK CHICKEN (BREAST W/APPLE-TYPE COMPOTE) \$12.65

ALL DINNERS INCLUDE SOUP AND SALAD, A CHOICE OF A BAKED OR COWBOY POTATOES OR SPAGHETTI W/MEAT SAUCE, A VEGETABLE AND ROLLS, COFFEE OR TEA AND THE GRATUITY

DESSERT? BROWNIE WITH ICE CREAM _____ \$2.30
BROWNIE ONLY _____ \$1.75

FOR YOUR DINING PLEASURE THERE IS ALSO A SALOON WITH A FULL LICENSE INCLUDING BEER, WINES AND LIQUOR. THIS IS A **NO HOST CHOICE.**

PLEASE FILL OUT YOUR CHOICES ABOVE AND THE INFORMATION BELOW

YOUR NAME- _____

SPOUSE AND/OR GUESTS _____

YOUR TELEPHONE NUMBER: DAY : _____ EVENINGS: _____

PLEASE CALL ME IF I CAN BE OF ANY ASSISTANCE TO YOU OR IF THERE ARE ANY SPECIAL NEEDS WE CAN CATER TO. WE ARE LOOKING FORWARD TO HAVING DINNER WITH ALL OF YOU. THANK YOU, LYNN KOEHN 256-3625.

(Easy to respond form. Fill out.
fold on pre-folded lines,
tape open end (please do not staple),
affix stamp and drop in mail box.)

Billings Flying Mustangs
PO Box 22406
Billings, MT 59107

Lynn Koehn
1312 Terry Ave.
Billings, MT 59102

BILLINGS FLYING MUSTANGS MEETING MINUTES

January 3, 2000

The meeting was called to order by President Rick Koehn at 7:30 PM. The minutes from the previous meeting were read and approved. Leland Schliep gave the Treasurer's report. The report was approved. Dennis Rollins reported on the Board meeting held on December 9, 1999.

OLD BUSINESS: Rick Koehn reported on the upcoming plans for the Banquet. The Banquet will be March 11 held at the Feedlot at Shepherd. Cocktails are 6PM to 7PM. And dinner is at 7 PM. Rick also thanked Alice Garr for the time she spent Christmas shopping for our flying site neighbor.

NEW BUSINESS: Corporate Air of Billings is hosting the Air-Show this coming July. The Billings Flying Mustangs were asked to participate by putting on a Combat demonstration. Club members Brad Johnson and Walt McIntosh are the committee members. The Montana Aviation Conference is being held again this year in Billings at the Holiday Inn. Leland Schliep made a motion to participate with a second by Steve Hergett. Leland is the Committee chairman. The club will need volunteers to provide models to be hung in the atrium. Don Herington will again graciously donate an ARF to be raffled at the conference held March 2, 3, and 4.

ELECTIONS: The annual elections were held. Results showed that Rick Koehn is our President again. Dennis Rollins is Vice President. Bob Moore was elected Treasurer. Steve Hergett is Secretary. Newly elected Board Members are Leland Schliep, Earl Seaholm, and Doug Haacke.

COMMITTEE REPORTS:

COMBAT COMMITTEE: CD Ron Horton reported that the Western National Combat event is set for August 5, 6. Entries will allow up to 60 pilots this year. Entry fees will also increase to \$50.00 this year. Doug Haacke is the alternate CD. April 1 is the first Combat event of the year. This will be a sanctioned point's event.

AUDIT COMMITTEE: Larry Wilkinson, Leland Schliep, Rick Koehn, and newly elected Treasurer Bob Moore will do the annual bookkeeping audit.

Steve Hergett won the 50-50 raffle. Don Herington moved to adjourn the meeting with a second by Dennis Rollins. Meeting was adjourned at 8:40 PM.

Leland's Ramblin's

Junk you can skip if you're busy!

A busy time and a good feeling time this month. I have felt the relief of passing on the newsletter each month since Roxie started doing such a good job at it and now I have passed on the Treasurer's job and that is another relief. Those are both important jobs and I was proud to have been able to contribute to the life of the club. I am hopeful that you will support and contribute to the replacements and also hopeful that, when your turn comes up, you too will look at the importance of these offices and jobs and consider contributing your time and your talents.

We held a board meeting at Vice President Dennis Rollins house. We pretty much laid out the events we knew about from organizers and members. I did not take exact notes so I am not going to make a list here. Steve is the secretary and he was there so Dennis, Rick, Steve and I were the board members present. It is going to be a fun summer.

Rick seemed to be coming along very well with the Banquet. I am looking forward to that. He has the prize budgets and will be planning some real great entertainment. I am sure the orchestra and Las Vegas comedian will go over very well with every one. I understand the orchestra has music from every generation from the last millennium and that the comedian, who has performed at all the top places and award shows as well as Las Vegas also knows model airplanes so his show should be great. Be sure to pat Rick on the back for his work in getting these folks to donate their performances to our club. My vote for man of the year is on Rick.

Rick also attended the Aviation conference planning meeting for me. He reported that we are on track and things look good. Dennis Rollins has agreed to display up to four of his big birds. I think the hanging this year will be fabulous. I am thinking we will have Dennis planes at the corners and very low to the floor level. I would like a big hornet nest of combat planes looking like action (streamers and all) and then loads of nice sport planes filling all the gaps. If you have any of these, please be thinking of the first week of March for the display. Don Herington has donated an ARF plane AND engine for the raffle. I am going to be talking to S Bar S and Al Coomber for funding to complete the raffle prize. We have the TV and VCR so will be playing videos again. We do need some new ones as those of last time were watched closely by everyone and if we have all the same ones, it will diminish the viewing. Set up for the Aviation conference will be March 1st. We will start about 4 p.m. and finish about 7 p.m.. You need to have planes there and assembled before 6. I know some of you work and this will be tight but let's try for those times. Tear down will be Sunday morning March 5th. More discussion at the meeting. Rick committed us to doing two sessions of 45 minutes each about the hobby. I agreed to take one, if it can be done on Saturday but need someone as a backup on that one and someone to do the other one. Subject is open, presentation is open. Ideas anyone?? More at the meeting.

Well, I have been able to do some building but no flying since last month's notes. I think I have the rudder push rod figured out on my pattern plane so I am making a little progress there. I sold the biplane and it will fly in Wyoming this year. I need to build another one of those, it was so much fun to fly. Maybe one of those Great Planes 40 size like Earl's. I would have to put a Nelson or Jett engine on it so it would fly faster than Earl's though.

Enough ramblin for this time. Roxie is waiting (I hope).

See ya out flyin'

Leland.

Roxie's Rantings

Before I continue with The Battery Story, I feel that it would be good to give a few working definitions to some of the common electrical terms. I am simplifying some of the definitions to make understanding as simple as possible. First there is voltage. *Voltage* is the equivalent of pressure. It is the amount of push or pull that causes current to flow in a complete circuit. *Resistance* is the opposition to the flow of current. The amount of *voltage* and *resistance* in a circuit is what determines the amount of *current* that flows. "*Electric current* is the movement of charged particles in a specified direction" is the first sentence of a four page explanation of current and current flow in Richard Fowler's text book on electricity. These charged particles are very small and it takes a lot of them to be useful to us. For now let us simplify current as the number of Amperes (Amps) that flow in our equipment. Remember that we often work with currents that a small fractions of an amp. A *complete circuit* is simply everything that current flows through to get from one terminal of the power source to the other terminal.

Last month I wrote about charge rate, and mentioned that when under a load (something "drawing" current from) our batteries can have the voltage at their terminals drop to a lower voltage than when no load is applied. John Benario writes a helicopter column for RC Modeler magazine. In a recent column he mentioned the measured current drawn by one Futaba FP-S9250 servo in a helicopter reached two amps when the servo was moving. This would mean that with four servos there is the potential to draw $4 \times 2 = 8$ Amps of current or if you use five servos $5 \times 2 = 10$ Amps from your battery. It will take a very high quality battery to not let the terminal voltage drop with this kind of a load. If the terminal voltage drops too much it could cause the receiver to malfunction and you would see ALL of the servos go to full throw! Can you say "Snap Roll!" Beware,

this could happen with lower quality servos under severe load such as quick / tight maneuvers... as in pylon racing, combat, aerobatics, or the latest rage, 3-D flight.

I know that I have gotten a little off of the subject, but what I am trying to say is that if you are as "frugal" (my wife says cheap) as I am and you seem to be having more than your share of unexplained mishaps or radio "glitches" and "hits," you probably should take a close look at your battery, switch harness and connections. Checking your batteries between flights with an expanded scale voltmeter (ESV) is a good precaution. But remember that most ESVs will have a built in load that will draw 250 to 500 mA. This is a long way from the potential current draw mentioned above. With 500 mA load the battery may check fine but when you draw 2 or more Amps from it, it may fall far short of the voltage you need to operate your system. Poorly hinged and binding control surfaces can add even more problems. If you can not fly at least six - 10 minute flights and have your ESV (you do use one, don't you!) still show 4.6 volts or more, then you either have binding or other problems in your control system or the servos you are using require a larger capacity battery pack.

Next month I will get back on the subject I started last month with the completion of the NiCad dissertation and info on the Nickel Metal Hydrate cell.

Roxie

For Sale

Aero Works X300P. 1/4th scale profile fun fly plane. \$75 or will trade for radio or engine of some value. Call Fred Ott, 252-5575

If you have something related to our hobby that you would like to sell or trade I will be happy to put it in IF you give me the info. *Roxie*.

Billings Flying Mustangs

PO Box 22406

Billings, MT 59107

First Class

TO:

