



OMAHA NEBRASKA
AMA 857 - IMAA 284

TAILSPIN NEWSLETTER

April 2013 Issue

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A Word from the President



We now have a different mower for our field as of the *Agriculture Research Development Center* (ARDC) auction that was held on our flying field in March. The used mower we bid on and won has a 72 inch wide cut, and is powered by a 3 cyl *Kubota* diesel engine. We got a very good price on this unit, however it does need a couple of little items to get

it into shape. Compared to the retail value of this unit, we got a great deal.

That's the good news; the other not-so-good news is that the field is torn up big time from the auction equipment. In past auctions held every three years at Mead, the field didn't suffer too much. This time made up for the other times however.

We will need to discuss a plan to repair the field at the April club meeting.

I hope all of you have your new planes ready to go, and have checked your batteries for the new year.

Great work on the *Show N' Tell* displays, fellas! The *Spacewalker* build by **Jim Henley**, and the "*Shoe*" plane by **Bob Burt** are outstanding!

Special Note: Thanks to **Bob Burt** and **Bob Zits** for their "long time" support at the ag auction on March 9th.

Thanks

~ Rick Miller

Next Meeting:

7:00 PM Tuesday April 2nd 2013

Location: Natural Resources Center, Chalco Hills Recreation Area, 8901 S. 154th St.

(Bring something for Show N' Tell!)



Vice-President's Corner



The *Spacewalker* is coming along with the latest information on the build thread in the newsletter found below. There is detailed information on how I made the navigation and landing lights. Perhaps you would like to add lighting to one of your favorite models. LED's can be powered off your receiver, with virtually no current draw.

There are some companies that sell "plug and play" kits that eliminate all the guess work. All you need to do is decide where to put them and run the wire.

Let's build and fly!

~ Jim Henley

March 2013 Treasurer's Report



As of this writing approximately 75% of last year's membership have already paid their 2013 dues, and we have a few new members. How about the rest of you stepping up to the plate and making sure that when it comes time to head for the field that you are a current member. Since the ground hog didn't see his shadow this year there is a good chance that flying season might not be that far away.

The flying field is not in the best condition as a result of this year's agricultural equipment auction in March, so how about being prepared to pitch in and make sure it is in condition so that we can enjoy flying at a great field. Look forward to seeing you all.

Thank You!

~ Dean Copeland

March 2013 Meeting Notes



Attendance: 9 Members

Events: The Club event schedule is set. See the *Western RC Flyers'* website for details at: (<http://www.weflyrc.org/events.htm>).

NOTE: Dr Richard Greenberg passed away the week of the March meeting. Our sincere condolences go out to Dr. Greenberg's family and friends.

Old Business:

Treasurer Report:

Dean Copeland gave the treasurer's report. The club is in good financial standing.

Bud Hall Event:

A motion was made and seconded to make the event to a one day event. The event will happen on Saturday and Sunday being a rain out day. Motion passed.

Safety Items for Field:

As part of our safety needs, we need have a few things available at the field in case of an emergency. A motion was made and seconded to acquire the following items and store them at the field for emergency purposes.

1. An ABC fire extinguisher
2. A First Aid kit
3. A box large enough to store these items and be able to be secured and locked to the pole.

Cont....

4. An emergency information sheet that includes the address and GPS location for the field location should emergency responders be needed.

Motion passed.

UPDATE: Motion was made and passed that \$200 would be allocated to buy 2 fire extinguishers, a first aid kit, a lock box and a lock for the lock box.

Lawn Mower Batteries:

Rick Miller has the batteries stored out of the cold. We may need to replace them this year.

UPDATE: Motion was made and passed to replace the lawn mower batteries.

Jim Henley:

Jim gave a verbal update on his *Spacewalker 1* build.

New Business:

Model Aviation Article:

There was discussion about the article in Model Aviation magazine about District 9 club events. Everyone agreed that Ed Paasch is doing an outstanding job representing the clubs in Omaha and the surrounding area. Thank you Ed!!

Dean Copeland and Futaba:

Dean announced that he is now a representative for Futaba. Congratulations Dean!!

NRDC Sale:

Date: March 9 (one day)

Rick Miller reported that the equipment for sale has started being moved onto the field and that the field has been torn up a bit due to the soft ground.

- The NRDC has the ground roller in the sale that we have used in the past to roll the field. A motion was made and approved to allow a bid up to \$300 to purchase the roller.
- The NRDC has a Kubota diesel mower with a wide cutting deck for sale. A motion was made and approved to allow a bid up to \$2500 to purchase the Kubota mower.

Don Neil Scale Event:

Date: August 3rd and 4th, 2013

AMA *Sanction Event* number has been received for the multi-club fly.

A motion was made and approved for \$200 to go towards the *Don Neil Scale Event* to be held at the *Skyknights* field.

Honorary Member of the Month

Tim Peters' wife is the "honorary member" of the month for providing delicious brownies for the meeting.

Cont....

Show and Tell:

Bob Burt: Bob brought in a semi-scratch built canard. He built the fuselage from scratch and is using a wing from a *Sturdy Birdy* that he adapted.

The wing span is 47" and has a 5" sweep.
The wing has ecriat (??) style wing tips that are toed in approximately 2 degrees.

The canard has a 3 degree "up" angle.
The fuselage is made from pink foam that was carved and covered and fiberglassed.

Servos will be *Command* mini servos with metal gearing.
Power will be an electric set up yet to be determined.

Jim Henley: Jim brought in his 1/3 *Sig Spacewalker* that is under construction and documented in this newsletter. Model is being constructed with the following items:

- Sig flat leaf hinges
- 32 ounce fuel tank
- Landing and navigation lights
- Robart ¼ scale Cub landing gear
- Fiberglass wheel pants
- McDaniel on-board glow
- Hitec 645 servos
- Power: OS Gemini 300 Twin

The expected flying weight is about 20-23 lbs.
Most significantly, the pilot is a luscious blonde lady.
☺

Rick Johnson: Rick brought in an electric powered *Maxford Nieuport 28 WWI ARF* still in the box. It is a balsa and ply built up aircraft.

It has the following specs:

- The total wing span is 40".
- The flying weight is about 2 lbs.
- It will be powered with an Electrify Rimfire .10 motor
- It will have Solar A107 micro metal gear servos
- The ESC will be a 35 - 40 Amp ESC.

Show and Tell Drawing Winner: A \$25 gift card to *Hobby Town* goes to **Bob Burt**.

The meeting adjourned. See you next month!

That's it!

~ Rick Johnson

Rumors, Gossip and other Signs of Decay



Well boys and girls, moving time have come. This is a big decision process as to what to take and what to discard or sell. I look around my office and I see a picture form 1994 of all the guys I "*quickie raced*" with. That photo gives me good feelings. In fact I have many good memories of the *Western RC Flyers*.

Old Timers: How many pleasant events were and are still held each year with great camaraderie. I remember **Jim Albin** and his beautifully constructed aircraft; **Chuck Leitch** too. **Bob Hess** and the ever-present *Miss Tiny*. I always envied that OS 75 open rocker arm motor, as it was so right for that airplane.

Quickie Racing: For about 5 years **Bob Turner** and sojourned thru that event. I really had fun and actually improved my flying skills. I knew I would never be a great RC pilot but it helped me get to OK. The fun I had in the cage calling the *Nelson Engine* class of planes was terrific. I enjoyed watching the most skilled pilots race competitively. My partner **Bob T.** had the best equipment and he was so skilled at flying, yet so patient with me.

Bud Hall Event: I had the privilege of knowing **Bud Hall** - "*extraordinaire*" and actually having made a trip with him and the "*Good Old Boys*" to Toledo. It was one of my first trips there and **Bud** was truly a nice and fun guy. The event itself always was more social for me than the flying, though I did fly a few times. The food at the *Bud Hall Large Airplane* event was and is excellent. But it was the attendees that made my day.

Fun Flies: We had quite a few and one that I remember, if I am correct, was in Springfield, we were to have steaks but I believe **Randy Tentinger** never got the defrosted or something on that order. But I always had a great time.

Springfield Flying Field: What a ton of great memories I have from the fun Tuesday nights, to the quick meetings, to getting bitten up by mosquitoes pretty often. Mostly I really enjoyed that field, I went there sometimes to just park and think things over. I was still working and I needed to escape to clear my head. I really enjoyed the years we were there.

Being a Club Officer: I guess I want to thank all of you for allowing me to serve as long as I did. I truly care about the club, I enjoyed and was frustrated by the duties at times but never by the people, to our members, thank you.

The Club Auctions: We were at times the best and the worst club Auctions, depending on the date & weather. So many members worked so hard to make it a success and other club's members were very helpful too. Overall, I had a great time and here again enjoyed the people that attended the Auctions. We did a great job, I thank everyone again.

I will not be able to submit an article for the next two months. And frankly I will from there in Las Vegas only be able to observe RC flying; my interests have shifted to RC cars, which I will not bore you with what I am doing. If **Nelson**, **Rick** and "*You Guys*" want me to write my observations after we get settled, I will try.

Also, I will try to make the April Meeting if possible.

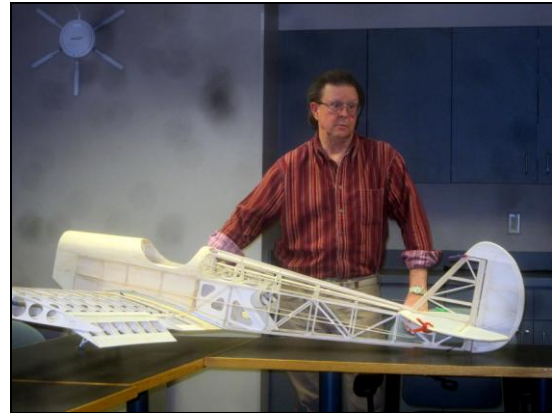
Warmest Regards to All!

~ Bob Boumstein

THE GOOD.....



March Show N' Tell



Jim Henley answers questions about his 1/3 scale Sig Spacewalker that he has been building over the winter. Nice looking aircraft!

THE BAD.....



Leave it to **Bob Burt** to come up with a unique design for building and eventually flying at the field. He calls this sharp canard the "Shoe."

and THE UGLY.....



Rick Johnson pulls his latest purchase out of the box.

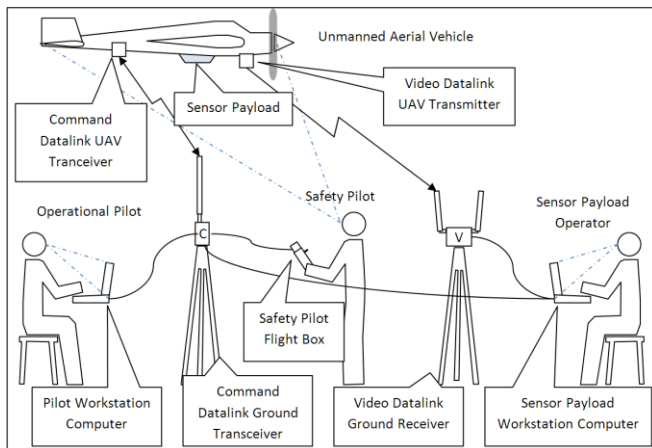
Real World Design Project

Report by Tim Peters

On Monday January 14th I met with about 20 members of the *Student Engineering Team* at *Omaha North High School*. I spent about an hour discussing their contest project. They are participating in a competition with other schools in the state and across the nation. The project is called '*Real World Design Project*', and is a '*State Aviation Challenge*' for 2013.

The task involves a simulation where they design and plan a '*Search-and-Rescue Unmanned Air Vehicle*'. The goal of the project is to provide a set of design documents and the answers to a group of very technical questions about their implementation.

During my visit we got into some detailed discussions about the mathematics associated with the detection and ultimate identification of an '*injured child*' by the UAV. The design involved an aircraft very similar to a small-to-midsize R/C plane. The *Real World Design Project* provides a catalog of aircraft, propulsion system, sensors, operations personnel, and ground station designs. The propulsion system is selected from a group of very common R/C engines including gas and electric motors. In a similar manner the electronics for the aircraft is taken from off-the-shelf R/C gear. Again—this is a simulation project, there is no actual R/C airplane involved.



I spent a good deal of time learning about the camera portion of this project. We studied the number of camera pixels that can be provided and the horizontal/vertical camera '*footprint*'. During the discussion I had to refresh my high school trigonometry about tangent ratios to help them figure out the minimum height the plane should fly and yet get the entire profile of the '*injured child*' within the focus of the camera.

I am really impressed with the talent this group presents. They are coordinated by *North High* instructor *Lee Kallstrom*. A big thank you to student *Jennifer Zick* who invited me to assist them with their project.

If anyone wants more detail, they can go to this source:

http://www.realworlddesignchallenge.org/resources/FY13_RWDC_State_Aviation_Challenge_Statement_V15.pdf



"Bob, we'll all miss you....."



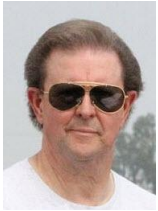
REWARDS PROGRAM

Remember **Hobbytown's Reward Program**. With every purchase by a WF member, the club receives a credit for an amount equal to 1 percent of your purchase. Be sure to mention your **Western Flyers affiliation** when making a purchase at either Hobbytown location.

Sig 1/3^d Scale Spacewalker

By Jim Henley

Part III - Fuselage

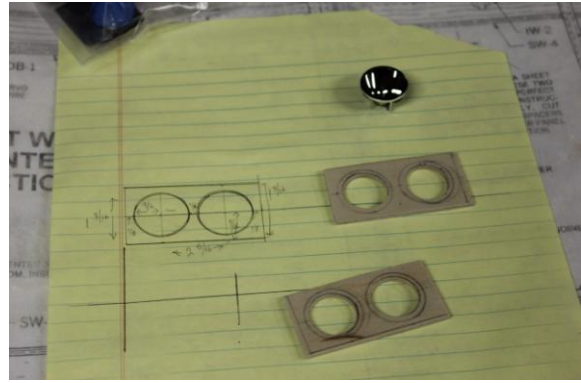


With the fuse and wing mostly constructed we move to the vertical and horizontal stabilizers. These are framed out over the plans, hinge locations marked, and hinge slots are cut. This plane will have working navigation and landing lights so this is a good point in the build, to make the necessary modifications and parts for the lights.

I was unable to locate the small cardboard tubes in the proper length, so I rolled some around a dowel using brown paper. Once they were rolled I secured the ends with masking tape then wiped some white glue down the length to keep the tubs from unrolling. Once that was done they were secured in the wing center section and outboard wing sections.

I also ran the necessary wires for the lighting system. The size of the landing lights were dependent on the reflectors I measured the reflector from a "AA size mini-Mag lite". The landing lights were drawn out on paper based on the reflector size and the "TLAR" (*that looks about right*) formula. The navigation lights were scaled off some pictures and measurements from those used on a full size Spacewalker.

I started the navigation lights by carving a plug made from a dowel and balsa. Then it was covered with Ultracote (*which acts as a parting agent*) and laid up with fiberglass cloth and resin. Once the shell was made I carved two lite ply bases and "CA'd" the housing to the base. The lenses were made from some hard wood figures found at a craft store. I cut them to make a flat side then carved a relief so the lens would fit inside the housing but fit flush the outside of the housing. Once the lens's plug was ready, it was mounted to a lite ply base and **Dean Copeland** formed a set of lenses with his vacuum device. The inside of the lenses were painted with transparent red and green.



Non stick aluminum foil. Landing light cover will be moulded over this

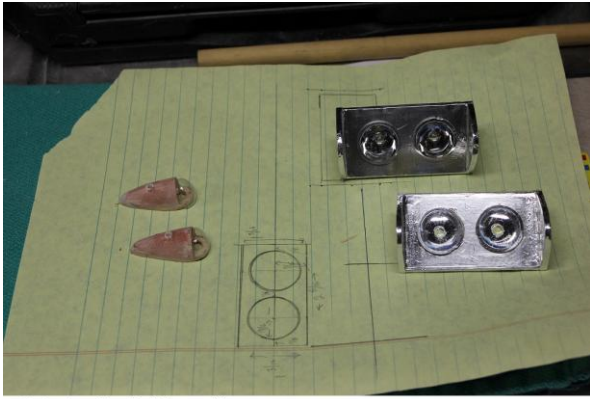


Test fit light bracket in wing leading edge

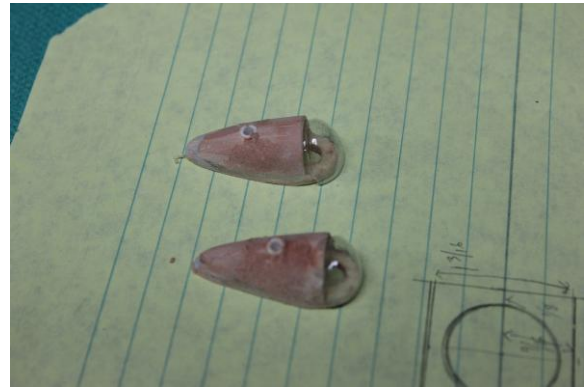


Landing light housing

Sig 1/3rd Scale Spacewalker Cont....



Navigation and Landing light assemblies



Navigation light lenses



Navigation light 1st attempt



Red lens close up



Navigation light 2nd attempt. Needs to be cut to size and prepared for painting



Navigation lights in primer

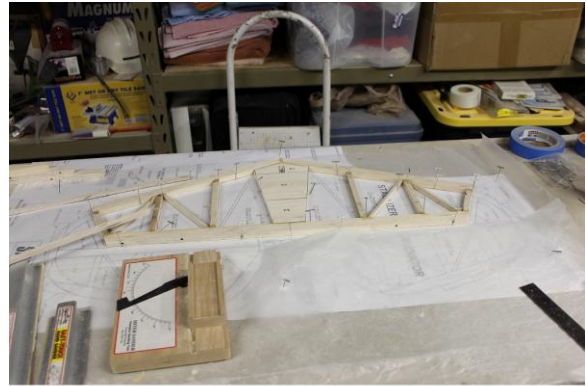


Test fit plug in housing

Sig 1/3rd Scale Spacewalker Cont....



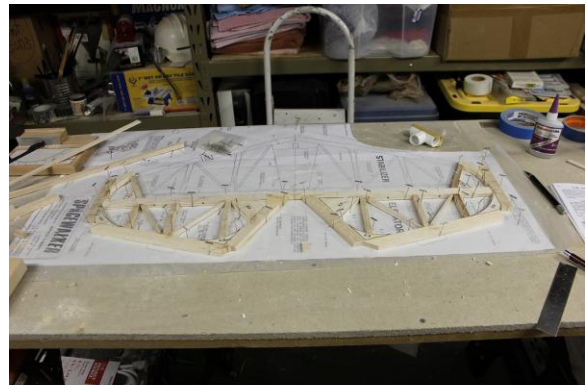
Finished navigation lights and landing lights



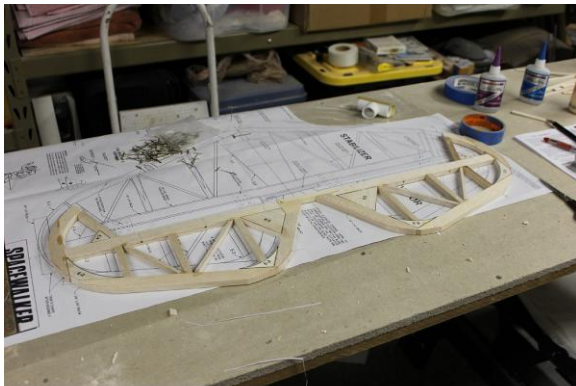
Horizontal Stab.



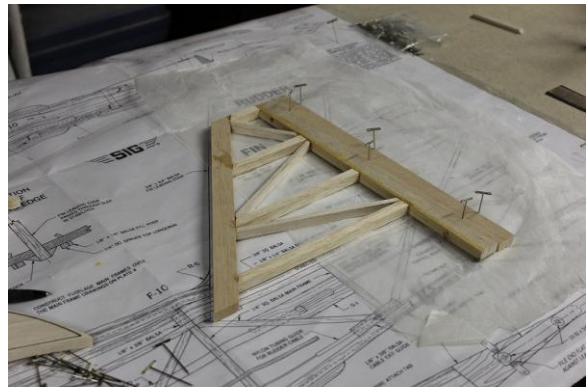
Start of horizontal stabilizer framing



Elevator framed up. Needs shaping and final sanding



Elevator shaped up. Needs final sanding



Vertical Stab framed up



Rudder framed up



Stab / Rudder assemblies



~ 2013 Western R/C Flyers Event Schedule ~

2013 Tuesday Night Fun-Flys at Mead, Every Tuesday evening May 7th through September 1st!
(Weather Permitting)

January 2013

- **Tuesday, Jan 2nd** - Club Meeting 7pm, NRC, Natural Resources Center, 8901 S. 154th St.
(Downstairs meeting room – north end bldg)
- **Saturday, Jan 26th** - SAS Museum Indoor Airshow and Chili Bomb. Multi-club event.

February 2013

- **Tuesday, Feb 5th** - Club Meeting 7pm, NRC, Natural Resources Center, Chalco Hills Recreation Area, 8901 S. 154th St.
(CAP meeting room, basement, far left of entrance)

March 2013

- **Tuesday, Mar 5th** - Club Meeting 7pm, NRC, Natural Resources Center, 8901 S. 154th St.
(Downstairs meeting room – north end bldg)

April 2013

- **Tuesday, Apr 2nd** - Club Meeting 7pm, NRC, Natural Resources Center, 8901 S. 154th St.
(Downstairs meeting room – north end bldg)

May 2013

- **Tuesday, May 7th** - Club Meeting 7pm, at MEAD FIELD, bring a plane, open flying & food.
- **Saturday, May 18th** – Old Timers Fun Fly with Glider Fly - Starts at 9:00am with flying until 3:00pm.

June 2013

- **Sunday, Jun 2nd** – Annual Spring Club Fun Fly at Mead Field starting at 10:00am. Open flying.
- **Tuesday, Jun 4th** - Club Meeting 7pm, MEAD FIELD, bring a plane, open flying & food.
- **Saturday, June 15th** – Old Timers Fun Fly with Glider Fly - Starts at 9:00am with flying until 3:00pm.

July 2013

- **Tuesday, Jul 2nd** - Club Meeting 7pm, MEAD FIELD bring a plane, open flying.
- **Saturday, Jul 20th** - Old-Timers Fun Fly with Glider Fly - Starts at 9:00am with flying until 3:00pm.

August 2013

- **Saturday, Aug 3rd & 4th** - Don Neill Scale Contest. Multi-club Fun event hosted at Skyknights Field in Waverly.
- **Tuesday, Aug 6th** - Club Meeting 7pm, MEAD FIELD a plane, open flying.
- **Saturday and Sunday, Aug 10th** – Bud Hall Large Aircraft Fun Fly. Aircraft restricted to IMAA criteria. Landing fee \$10.00 provides lunch both days and flying. Rain date Aug 11th.
- **Saturday, Aug 17th** – Old Timers Fun Fly with Glider Fly - Starts at 9:00am with flying until 3:00pm.

September 2013

- **Sunday Sep 1st** – The 5th Annual Fall Fun Fly and Swap Meet. Swap meet setup after 9am. Open flying 10am through 3pm.
- **Tuesday, Sep 3rd** - Club Meeting 7pm, MEAD FIELD - bring a plane, open flying.
- **Saturday, Sep 21st** – Old Timers Fun Fly with Glider Fly – Starts at 9:00am with flying until 3:00pm.

October 2013

- **Tuesday, Oct 1st** - Club Meeting 7pm, NRC, Natural Resources Center, Chalco Hills Recreation Area, 8901 S. 154th St.
- **Saturday, Oct 5th** – Old Timers Fun Fly with Glider Fly – Starts at 9:00am with flying until 3:00pm.

November 2013

- **Tuesday, Nov 5th** - Club Meeting 7pm, NRC, Natural Resources Center, Chalco Hills Recreation Area, 8901 S. 154th St.
- Nominations taken for 2012 Officers

December 2013

- **Tuesday, Dec 3rd** - Club Meeting 7pm, NRC, Natural Resources Center, Chalco Hills Recreation Area, 8901 S. 154th St.
- 2012 Officer elections



Tailspin Newsletter
Western RC Flyers
Omaha, Nebraska

TO:

Western R/C Flyers Inc. 2013 Membership Application

Please print clearly!

Name: _____

Address: _____ Zip Code: _____

Evening Phone: _____ Day Phone: _____

Email: _____

AMA Number: _____ IMAA Number: _____

Dues Paid: \$ _____

2013 Dues: \$35 (Renewals must be paid by **April 1**) New/Renewal: ___ New ___ Renewal ___ (Check One)

Sign Here: _____ Date _____

Membership subject to approval. AMA membership is required.

Make Checks Payable to: Western R/C Flyers

**Print this form and send check to WR/CF Treasurer:
Dean Copeland 15668 Fountain Hills Dr.. Omaha, Nebraska 68118**