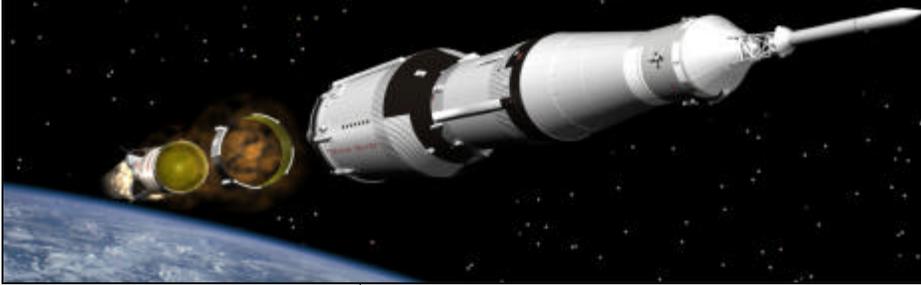


Jackson Model Rocketry Club



JMRC NEWS

Volume 5 Issue 1

January 2011

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2011 LAUNCH DATES

January 8	MIS
February 12	MIS
March 12	MIS
April 9	MIS
MAY 14	MIS
June 11	MIS
JULY 9	MIS
August	MIS
September 10	MIS
October 8	TBD
November 12	TBD
December 10	TBD

June, July and August launch dates may change due to races at MIS. A two day joint launch with MMAR in Muskegon is being considered for the July launch. Fall launch location to be announced at a later date.

January Launch Report

The January launch was held on Saturday January 8th at Michigan International Speedway. Thirteen die hard racketeers attended the launch. The day started at about ten degrees and then warmed up to slightly over twenty. The sun was out and other than the cold it was really a pretty day. The winds were not too bad, but did manage to add another two rockets to the surrounding trees. Carl Wagner and Tony Haga were the unfortunate fliers to add his rocket to the trees. The good news is that the rockets are easy to see in the tree. Bad news is that the trees are really high!

Roger and Emma brought the trailer to the



field, cleared some of the snow and got the

heaters running. A pot of coffee was made and donuts were available. By late morning the trailer



was toasty warm. Bratwurst and hot dogs were heated on the grill and everyone had a nice lunch that included chili. Needless to say, everyone ate in the trailer.

Rob, Scott and Tony decided they could get a stuck reload out of a motor casing for Carl. Watching them work gave



UPCOMING BIRTHDAYS

The members below have birthdays coming up in the next few months, so if you see them at a launch, be sure to wish them a happy Birthday!

February

Carl Wagner 2/3
Ken Karbon 2/18

MARCH

Shawn Denton 3/7
Steve Wagner 3/13

APRIL

Chris Palmer 4/5
Terry Leright 4/12
Jo-Anne Miller 4/26

Remember, I can only post the birthdays I have, so if you don't see your name here, please let me know your birthday, and I'll get it posted!

Thanks!



everyone a good reason to stay in the trailer. Ultimately they were successful. Chris Palmer attended the launch with his friend Barbie. Unfortunately she lost her head at some point during the day.

Dale Hogson flew a duel deploy rocket. Unfortunately battery

Dale Hogson launched his LOC Warlock for a successful flight.



Tony and Chris teamed up to launch an Izzy and the UFB (unidentified flying Barbie) with CHAD staging. The first try was not a success, but the second one went well for everyone but Barbie.



failure caused the main charge not to fire. Tony Haga flew three flights on an Aeroteck D-10. Unfortunately, only one of the three flights was successful..





There weren't a lot of flights, but I believe everyone there had a great time and will definitely do it again.



P_{THE} TO

In January the Trailer debt was reduced by \$392.00 This amount includes Pledges, the regular trailer payment and cash donations.

The PTO (Pay the trailer off) fund raiser will be held at all of our launches in 2011. The objective of the fund raiser is to pay off the trailer loan by the end of the year. We will be accepting donations and pledges at each launch. All donations will be recorded so that each donor will get a donation letter for tax purposes at the end of the year. This fund raiser will replace the Willow Run Fund we held in prior years. In addition to taking donations at the registration table we will have canisters in the trailer and in the mule. Please consider making a donation at each launch. We will have a link at <http://www.sfsmindustries.com/thermometer.htm> that will track our progress. The total amount we owe on the trailer is \$3850. We will be making our normal monthly payments on the trailer which will be included in the tracking. Let's start 2012 with no trailer debt!

DIGITAL TV

Chris Palmer has donated a digital TV to be used as a fund raiser. We will be selling raffle tickets at each launch. The tickets will be \$5.00. The drawing for the TV will be at the two day summer launch.



2011 CONTESTS

We will be holding a 2011 altitude contest at each launch this year. It will run until the 2011 Christmas party, or till the altitude is hit. Half of the money donated will be paid as the prize. The rules will be the same as the 2010 contest. We will also have random altitude contests at some launches. In addition we will have a Bunny Chute, Masters Tournament and the second annual Turkey Chute. Each of these will operate the same as the Turkey Chute we had in November. Participation in these contests is a fun way to help finance club activities.

Trip to Terry's house

Rob and I made a trip to Terry Leright's on Saturday December 18th to learn about making carbon fiber tubes. Terry has a really great set up in his heated garage. He has a cutting table with one inch square grid lines and a roll to hold his fabric,



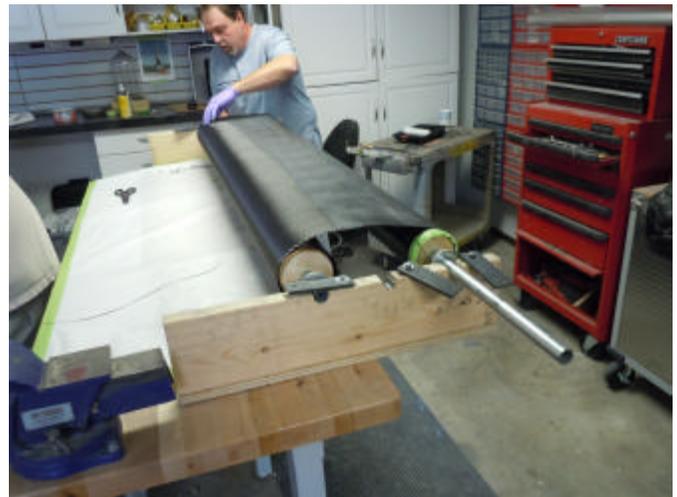
He had already cut two pieces of fabric, applied fray check and was waiting for us to arrive. Terry used two pieces of fabric in order to get the tube thickness and length he needed. The large piece of fabric was taped to and wound on a mandrel made from four inch phenolic tubing.



Terry used a second four inch aluminum mandrel to make the tube. He covered the mandrel with acetate, taped the seam and applied several coats of wax. Terry told us that having a good butt joint where the ends of the acetate met was very important to being able to remove the finished tube. The small piece of fabric was epoxied to the mandrel first. The mandrel with the fabric on it was set up in the winding jig and the edge was



epoxied to the first piece of fabric. Getting the fabric started parallel to the mandrel is critical to being able to use the jig to apply the fabric under pressure to insure it has no voids in it.



The jig Terry uses holds the two mandrels about ten inches apart and has clamps that apply pressure to the ends of each mandrel to keep the fabric tight.

Epoxy was applied, coating about one quarter of the diameter of the mandrel and the mandrel was turned a quarter turn to place



more fabric on for coating with epoxy. I found that it was hard to tell when the carbon fiber fabric had the proper amount of epoxy. The carbon fiber fabric does not wet out like fiberglass cloth.

A lot of pressure was used while the tube was being wound. It was im-

pressive how well the jig kept the fabric tight during the process.

Once the tube was completed it was removed from the jig and placed in a heating box. The box has four heat lamps and a controller that can be set for both temperature and time. The tube was cured at 100 degrees.

We learned a lot about making carbon fiber tube. The finished tubes Terry had in his garage were very impressive. Even his "rejects" looked good to us. If we decide to make either fiber glass or carbon fiber tubes we would definitely build a jig patterned after what we saw. I am not sure how well fiber glass cloth would hold its shape while being wound under pressure but it certainly would be interesting to try it. We will be looking forward to seeing Terry launch his next project..



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We're on the Web!
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Blast off with Rocketry!

The Jackson Model Rocketry Club (JMRC) is a prefecture of the Tripoli Rocketry Association (Prefecture 96), and the National Association of Rocketry (Club 620). JMRC is a 501(c)3 tax-exempt organization, and donations to the club are federally tax-deductible.

Prefect—Scott Miller

Vice Prefect—Roger Sadowsky

Secretary—Rob Dickinson

Treasurer— Bob Dickinson

JMRC holds launches monthly (weather permitting) year-round from two primary fields in the Jackson area. The club has launch equipment sufficient to launch any rocket from the smallest Estes model to large high power rockets, including hybrids. Waivers are 5,000 ft. AGL or 9,000 ft. AGL, depending on location. To find our next launch, or for more information on JMRC, see our website, www.jacksonmodelrocketryclub.blogspot.com/, or call Roger Sadowsky at 517.764.7514.

OUR MEMBERS IN THE SNOWY FIELD

