

The ZOG-43

The Newsletter of NARHAMS, NAR Section #139.
NAR National Champions 2001, 2004



From The Prez

July 2009..... Wow the year is half gone already! Time flies when you're having fun or if you're just getting older. Well it's a little of both in my case. On Sunday July 20, 1969 Apollo 11 landed on the moon. I look back and think to myself, it is hard to believe that it has been forty years since this happened. For those of us old enough actually have seen this on TV as it happened, it still sits very high on the list of mans most spectacular accomplishments from a technological standpoint. NARHAMS will support the Goddard Contest on Sunday July 19th which will commemorate the 40th anniversary of the Apollo-11 moon landing. This public event will feature a demo launch of American Space Vehicles to start the day. We will have a "lunar spot landing" contest open to the public. Come join us for this special event!

One thing that stays constant is the NARHAMS calendar of events. Take a minute and review the calendar to see what's coming up that you want to participate in. In July alone we have back to back launches on the 18th and 19th. The monthly sport launch is July 18th at Old National and we are still in need of a launch manager for both July and August. If I do not get a volunteer for the August launch manager position, we may have to cancel the launch. Many club members will be traveling back from NARAM-51 that day. The new procedures we have put into place at Old National to help with safety and awareness worked well at the June/ECRM launch. We have acquired the mesh style day-glow safety vests that are printed across the back "Range Safety". So now if we have a game going on we need 2 RSO's to make the launch run. The second RSO is stationed along the sidelines with an air horn. S/he also makes contact with the referees of the game to explain our procedure.

The last item I will touch on in this



A Cosmo Mariner Preparing for Launch at ECRM 36. Photo by Steve Humphrey

months column is that even though officer elections are actually in September, we are going to be losing our current Vice President. So I will be recruiting for a new VP. Congratulations to Chris Ha for being accepted at the Florida Institute of Technology. Good Luck to you Chris, we all know you're going to do really well. Be sure to come back and visit us when your home.

Talk to you next month; hope to see you on the range.

Jim



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Vol 31 Issue 7

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AND MORE!

ZOG-43

MICRO MODEL MAGNIFYING

CORNER: BY "MICROMEISTER" : JOHN MCCOY - NAR-15731

WRITTEN JUNE 2, 2009:

Micro Helicopter recovery:

One of the most challenging micro model types to build and fly has to be Helicopter recovery. These smaller size mechanical marvels really stretch both dexterity and parts acquisition or fabrication. Sometimes just figuring out which material to make a part out of becomes it's own research project.

Custom building Micro HD models in the Rota-roc and Rose-a-Roc Tradition are very doable while requiring a good bit of innovation on the part of the modeler. I encourage everyone to try one of these models just for fun. You won't be disappointed.

There are still a few competition HD kits out there. QCR offers an 1/8A HD kit, and our buddies at Fliskit have recently introduced the "Tiddlywink" 1/8A HD kit that has some very interesting possibilities. I recently lost a test model in very High grass that would have been a new national duration record with an average recorded time of 111 seconds. I'm sure 2-3 minute times will soon be recorded in 1/8A HD.

Keeping the model as light as possible while maintaining good structural rigidity seems to play an important part. But by far the most important thing is to get the rotors matched in both profile and mass. Well Balanced Rotors in the proper rotating disc plane seems to make all the difference in the world. Sanding airfoils is a pain in balsa regardless of thickness, and seems even more so in 1/16" contest balsa. I've found a little trick that seems to ease the pain just a little. Use a piece of glass plate as a dead flat sanding base. Add to it some de-tacked, Double faced masking tape to hold the rotor in place while we sand the forward edge then flip the rotor to sand the trailing edge aided by a plastic artist pallet knife, helps release the rotor from the mastic hold.

Rotor Hinges and rubber are other areas to be explored. While some try using commercial RC airplane hinges I've come to the conclusion they tend to be too big and bulky. Making your own hinges can be tricky but with a little practice can be done pretty well. Some have found plastic packaging facing material makes pretty good hinges with little trouble that are good for several flights.

The plan attached this month is a model I call the micro wonder whirl. I've been playing with this design for a couple years now and have had some really nice times with it. Since one of this years NARAM-51 events is 1/8A HD I'm hoping it will get a lot of new folks thinking about and maybe flying micro HD.

Any of you that would like more detail on finding parts, or techniques for construction I'll be happy to help in any way I can.

One of the suggested accessories for flying competition micros is the use of a piston or floating head piston launcher. I think we'll make that the topic for next months micro corner.



Jennifer and a New Rocketeer. Photo by Steve Humphrey

July Astro News

July Skies

July 7 - Full Moon

July 9 - 30th Anniversary of Voyager 2 Jupiter Flyby

July 15 - Last Quarter

July 16 - 40th Anniversary of the Apollo 11 Launch

July 20 - 40th Anniversary of the Apollo 11 Moon Landing

July 22 - New Moon - Solar Eclipse

July 28 - First Quarter

If you happen to be in China, India, or Nepal on July 22, you could witness a long total Solar Eclipse, lasting about 6 minutes 39 seconds. Most eclipses only last a few minutes, so this one is special. I think trying to book your trip now will be impossible, since I am sure the flights are sold out.

Saturn is still in the evening sky, now towards the hind legs of Leo, in the western sky. As the month progresses, Saturn will be setting earlier and earlier. Mercury joins Saturn in the evening sky late in the month, also near Leo. Around midnight, Jupiter is rising in the western sky, in the constellation, Capricorn. By the end of the month, around 10pm, Jupiter can be seen in the west, while Saturn is setting in the east.

The early mornings (around 4am, or working time for Tom Lyon) Venus and Mars can be seen in the East, while Jupiter is almost overhead. As the month progresses, Mars gets farther up in the sky, while Venus turns around and starts to set. In the second week of July, if you look up and left of Mars, you can see the Pleiades, or Seven Sisters. This is a cluster of stars that have been studied for millennia. Get out your binoculars, and see how many stars you see. Around July 18, the Moon is just below and to the left of the Pleiades. Luckily, it is going towards New Moon, and you might be able to see the stars.

ECRM 36 Results Con't from Page 10
1/2A Parachute Duration Multiround

Place	Contestant	NAR Number	Section	Flight 1	Flight 2	Flight 3	Total	NAR Points
B Division								
1	Filler, Matt	71947 139	20	29		49	330	
C Division								
1	Coleman, Ryan	59361 IND	16	33	47	96	330	
2	Grant, Bradley	85261 139	22	40		62	198	
3	Kidwell, Chris	45225 139	40	11	8	59	132	
4	Canino, Bruce	39989 503	40	8	7	55	66	
4	McGraw, Jim	18071 520	UNS	19	36	55	66	
5	Bock, Greg	44161 205	35	9	10	54	33	
6	Ash-Poole, Jennifer	61415 139	5	13			18	33
7	Filler, Jim	27862 139	UNS	10		10	33	
T Division								
2	Ho Ho T-207	205 33			33	198		
3	Meatball Rocketry	T-684 139	13	UNS			13	132

B Rocket Glider Duration

Place	Contestant	NAR Number	Section	Flight 1	Flight 2	Total	NAR Points
B Division							
2	Filler, Matt	71947 139	22		22	378	
C Division							
1	Filler, Jim	27862 139	10	46	56	630	
2	Ash-Poole, Jennifer	61415 139	36	11	47	378	
3	Coleman, Ryan	59361 IND	12	34	46	252	
4	McCoy, John	15731 139	39		39	126	
5	Canino, Bruce	39989 503	21	11	32	63	
--	Kidwell, Chris	45225 139	38 NR		0	63	
--	McGraw, Jim	18071 520	36 NR		0	63	
T Division							
1	Meatball Rocketry	T-684 139	45	52	97	630	

Science Fiction and Future Scale

Place	Contestant	NAR Number	Section	Prototype	Static	Flight 1	Flight 2	Total	NAR Points
B Division									
2	Filler, Matt	71947 139	Starchaser		670	125	795	360	
C Division									
1	Kidwell, Chris	45225 139	Starchaser		685	125	810	600	
2	Coleman, Ryan	59361 IND	Frieoe	620	155	775	360		
3	McGraw, Jim	18071 520	Mars Lander		670	93	763	240	
4	Filler, Jim	27862 139	Gauchito		645	58	738	120	
5	Ash-Poole, Jennifer	61415 139	Josie		635	94	729	60	
6	Canino, Bruce	39989 503	Cosmos Mariner	560	EJ	140	700	60	
T Division									
1	Meatball Rocketry	T-684 139	Josie		745	100	845	600	

NASA Space Place

Space Day 2009 at the Smithsonian National Air and Space Museum – Washington, D.C.

“Lockheed Martin along with NASA sponsored this year’s Space Day which was held on May 2, 2009. Featured guests for this year included former astronauts Kenneth Reightler, Roger Crouch and Daniel Barry, along with current astronauts Michael Reed (currently aboard the ISS) and the crew of STS-119 (minus astronaut Koichi Wakata who remains aboard the ISS). The featured scheduled activities were ‘panel discussions’ by the former and ‘current astronauts. A ‘stage’ of sorts with several rows of audience seating had been ‘set up in the ‘Space Race’ gallery. A large screen for multimedia presentations was present, and questions were fielded by the astronauts. All astronauts were pleasant, ‘informative and engaging when answering audience questions. “NOVAAR had set up a four-table display at the Missile Pit in the ‘Space Race’ gallery. “They had a front row seat of sorts to all the activities happening with the astronaut panel discussions. “Entering the National Air and Space museum from the ‘Milestones of Flight’ gallery was a ‘real treat for rocketry and space enthusiasts. One was immediately drawn to the ‘large-sized and colorful displays for the Lunar Reconnaissance Orbiter (LRO), a prototype of a new lunar electric rover, and the Orion Crew Exploration Vehicle. Also displaying ‘in the ‘Milestones of Flight’ gallery were a soil sample analyzer for a future Mars rover and a yet-to-be-launched solar dynamics observatory satellite. “Throughout the museum were activities and presenters that have become regulars at Space Day. “Signatures in Space”, as always, was busy collecting signatures to be flown on a later STS mission. The Radio Amateur on the International Space Station again conducted an interview with an astronaut (Michael Reed this time) onboard the ISS. A few authors were present for book signings outside the museum gift shop for a ‘Meet the Author’ activity. LEGO

creations and Mission Patch activities were available for kids of all ages. A space suit was on display near the LEM outside the entrance to the Food Court. “Your author is a forensically-trained and keen observer both of human nature and static displays. As such, a couple of notes became of interest. Lockheed Martin ran a three-minute video of a ‘return to the moon’ mission featuring the new Ares I and Ares V vehicles. The Orion crew exploration vehicle is now depicted with much more detailing for its service module. The new service module’s overall diameter had been slimmed down so that its diameter is smaller than the heat shield at the rear of the command module. “The lunar module had been depicted in a completely new configuration. Of course, a spacecraft which will only operate in the vacuum of space requires no aesthetic or aerodynamic contouring. That being said, the latest depiction of the lunar lander displays on over-sized, blocky and bulky descent stage, and an ascent stage that appears to have shrunk because it stayed in the dryer for too long. The newest video no longer depicts an earth landing. Instead, the latest video depicts a water landing with a ‘recovery courtesy of the US Navy. “Another departure from the past noted by this author was that in a house full of former and current astronauts, no activity was planned for autograph sessions. There was a ‘dearth of hand-outs made available by the exhibitors to the public. Another surprise was the absence of any display for the James Webb Space Telescope. “This author commends the NASM for re-positioning the SpaceShipOne to a lower height which ‘allows visitors to view this space craft in much more detail, as well as to permit better photographs. Kudos also for the placement of several signs at strategic locations to

draw visitors to the Space Day activities within the various museum galleries. “This Space Day was rewarding primarily because all the presenters had sought to engage the museum visitors. This was true for both the astronauts and the Goddard scientists alike. The exhibitors were out in front of their displays, and as such, were readily available to point out features for their displays and to answer questions. Their enthusiasm for their jobs and their future missions were evident as well as contagious. “Of course, all the exhibitors and presenters had IQs at a multiple of my waist size, and that wuz a gud thang two. “Respectfully submitted, Alex Mankevich



This guy has to get me some kind of an award. Photo by Matt Filler



Ol' Ed, What happend to you? They turned you into a toad! Photo by Steve Humphrey

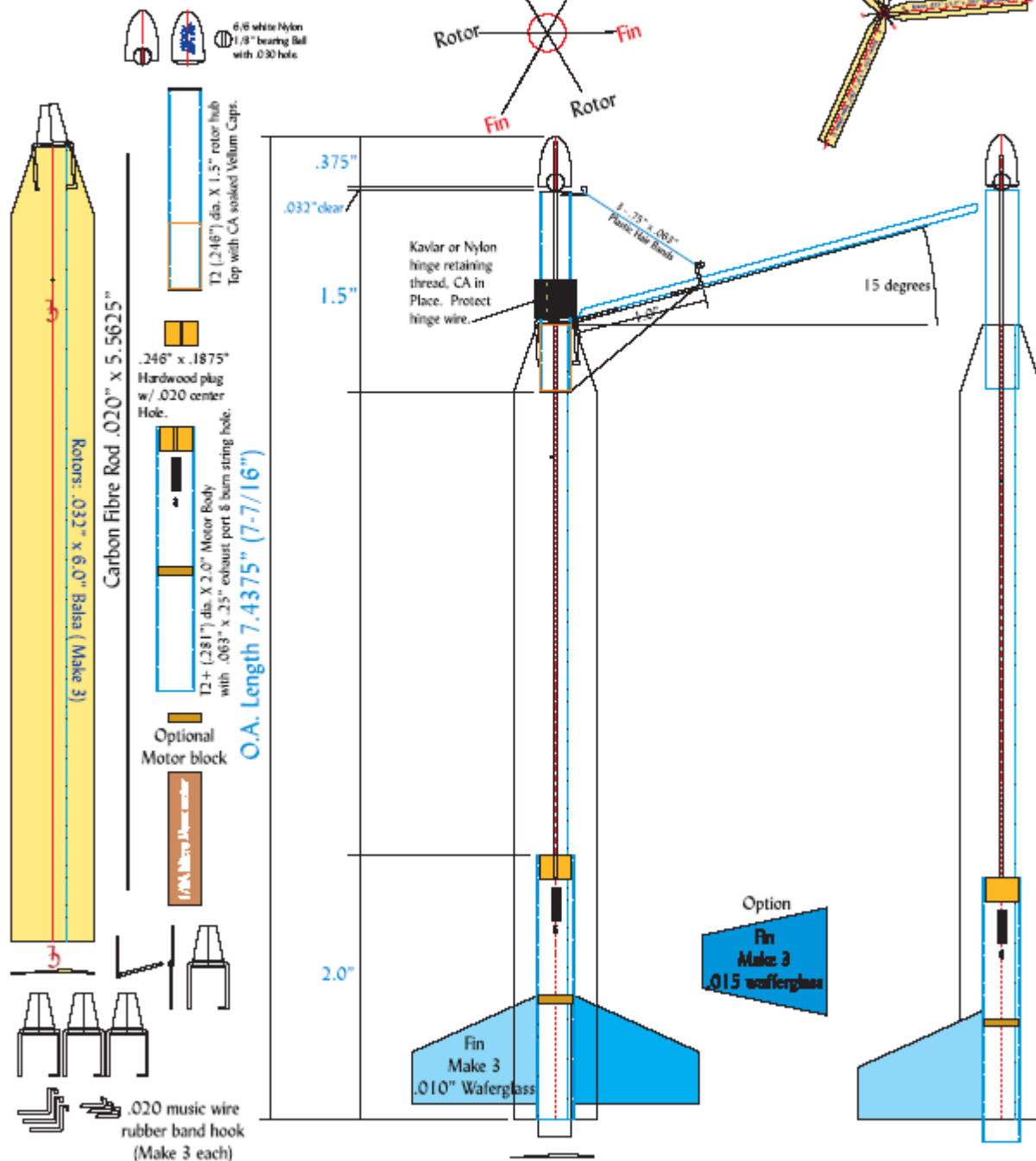
Micro HD Research Drawing

Micro Wonder Whirl (Free Hub) Model 215b2

1/8A HD (type 2)

Drawing by John McCoy - NAR-15731
Date: 80-12-08

1 inch
square



Calendar of Events for July and August 2009

Jul 11 5:30 - 9:30 pm Monthly meeting, Contest Building Session (Jim Filler)
College Park, MD
Jul 18 10 am - 4 pm Sport Launch, Space Rockets Theme (Jul 25 rain date)
Mt. Airy, MD
Jul 19 12 - 4 pm Goddard Contest, 40th Anniversary of Apollo-11 Landing
Greenbelt, MD
Aug 1 5:30 - 9:30 pm Monthly meeting, RockSim/RASP Demo (Chris
Kidwell) College Park, MD
Aug 8 - 14 NARAM-51 Johnstown, PA
Aug 15 10 am - 4 pm Sport Launch (Aug 22 rain date) Mt. Airy, MD

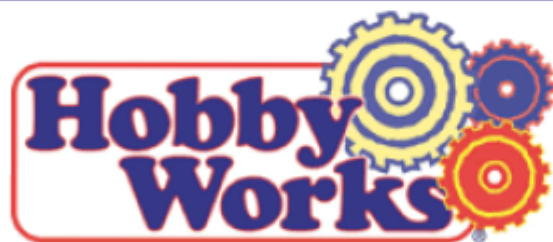
Sport launches are held at Old National Park from 10am-4pm, waiver up to 3.3 lbs and "G" motors not exceeding 62.5 grams of propellant.

All flights "E" power and above are restricted while soccer games are present on the field adjacent to the launch area.

Call ahead to confirm launch and waiver availability.

Business meetings are held at the College Park Airport Annex Building. Meetings begin at 5pm with building sessions or presentations and last until 10:00pm or so.

Questions? Call Club President Jim Filler at 301-524-4447 or visit NARHAMS online at <http://www.narhams.org>



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From the Propaganda Minister

Well now I am just putting the finishing touches on my 5th Zog. I think I am starting to find my rhythm. Then again, maybe not. I apologize for those people looking for lots of pics, I should have some more in the upcoming months. I am also planning on making the December Zog a Photo compilation of the years activities. That should be a fun one to do.

Well I didn't win the Ol' Ed trophy. I forgot I needed to be there the second day. Maybe next year!!! I did take second place in 1/2a Parachute Duration. WooHoo!!!!

The August issue will have all of the outreach activities from June and July. Raul also got some awesome pictures from the Demo Launch that Raul, Mark and I did on June 26 at Dundalk.

In thumbing through the old ZOG PDFs, does anyone know why the ZOG was called Zog43 and 1/2? Just wonderin!!!

Also reorganized my build and launch boxes from the June outreaches and ECRM36. I can never find an arrangement that works and can be easily transported to the field. If anyone has an idea, I think this would make a good article.

No lawn Darts this month?? Come on lets see them.

As always, thanks to all who contribute to The Zog 43. I have all of material to work with and I will use all of it.

Now to start building my Fake Wulf.

Brad
Minster of Propaganda

Congrats and Good Luck Chris Ha!!!



NAR Contests and Events

Space Day 2009 at the Maryland Science Center – Baltimore, Maryland Con't

Own Spectroscope", "Make Your Own Saturn" and "Make Your Own Space Helmet". Stomp Rockets were stationed outside near the Main Entrance. "Science on a Sphere" was shown throughout the day, and of course the Science Center's SpaceLink exhibit was open. "Space Day at the Maryland Science Center continues to demonstrate that Maryland is a "beehive of space-based businesses and amateur activities." Alex Mankevich "NARHAMS Space Day Coordinator"



Tyran Coleman's FFS Rocket being loaded and launch at ECRM36. Photos by Steve Humphrey

East) is in a rather remote and sparsely populated area, so much so that there isn't even a single residential home within 1 mile of where we will set up the ranges. This remote location makes it a great place for the events we have planned for the week. For the sport flyer we expect to have a waiver of 10,000 feet AGL for the entire week, and we'll be able to allow you to fly motors up to "M" power. There will be great competition in the FAI Spacemodeling U.S. team selections during the first weekend of the event, along with the crowning our own NAR national champions with a selection of 10 pink book events from Monday thru Friday. But we couldn't just stop there - we're going to extend the flying time on Saturday with a Night Launch. And to spice up the night even more we've come up with a fun event for you to participate in: "Area 51 Certification". What is this event? Think of it as an "Imagination Celebration" with a twist; your goal will be to please the crowd (and the judge) with a visually interesting model rocket flight with illumination; and the judge tells me it won't hurt your chances of winning if your entry falls under the category of an "Unidentified Flying Object".

Our host hotel will be the Downtown Holiday Inn in Johnstown, Pennsylvania; this is a very nice hotel with all the amenities for a family to enjoy their stay, including wireless internet and an indoor pool along with indoor parking right next door. The world's steepest vehicular incline plane is just a couple blocks from the hotel; it will take you up to a great view of the Johnstown area, and for a family excursion the Idlewild Amusement Park and Soak Zone are just 25 miles away. And should you find you have a little extra time during the week, you might want to visit the Flight 93 Memorial near Shanksville, just 3 miles away from the launch site.



I'm looking forward to seeing you and your families and I hope you come visit us for NARAM-51 next summer. It should be a fun week for everyone. Let me know if you have any questions as we have even more items on our schedule that I didn't cover here. You can reach me by email at naram51cd@windstream.net

Hope to see you there!
Steve

editor note

The Launch Field for NARAM 51 has been changed. The AGL is now 4,000 to 5000. Motors up to J impulse can be used. For more information please see the May 2009 Zog 43 or go to the NARAM 51 website at <http://www.psc473.org/naram51/>



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ECRM36 June 20, 2009

By Jim Filler NAR 27862

The thirty-sixth installment of the East Coast Regional Meet was held by NARHAMS at the Old National Pike Park near New Market Md. on June 19th & 20th 2009. We had 13 entries for the meet in three divisions. We had one independent flyer; we also had flyers from NOVAAR, PARA, SPAAR and NARHAMS. I am writing this article on Saturday June 27th and am amazed at the weather. It is breezy but for the most part sunny warm and nice. Last weekend when we held ECRM, I made the decision to fly the meet with the weather being iffy at best. It was windy, rainy, and humid; the only thing missing was the cold, so we substituted clammy for the cold to rename the meet Extremely Clammy Rainy Meet. With the contest year ending on June 30th it was either last weekend or this weekend to fly the meet for the year. I figured that if we postponed, some of the people from out of town might not make it back, and we would have any early season hurricane come up the Atlantic coast.

Saturday morning started off with a nice rain shower that ended about the time everybody was arriving. I drafted Dr. Kidwell to go to the storage bin (now conveniently a mile west of the field) to pickup the equipment. With most everyone flying on site, we unloaded the equipment and got things set up and I took the tracking stations out to set them up. Just as I finished setting up the tracking north station, another healthy rain shower comes through. We waited about 30 minutes or so and then opened up for altitude events. It was still fairly cloudy and I was a bit worried with A altitude on the slate that we might punch the cloud deck. Random Altitude had to be flown first if contestants wanted to fly the event. Contest Manager has a feature to randomly select an altitude target. The program selected 185 meters which I thought might be too high? We discussed it and decided the other altitude event A altitude would go to about the same altitude. We didn't have any A divisioners and after sending a text message to Matthew Filler (to wake him up) he arrived to fly against the team

entries. He actually took first with a flight of 221 meters which was a 19.5% error. Chris Kidwell who quietly had been flying Alpha's all year long with various motor and payload combinations took first in C division with a flight of 195 meters and a 5.4% error. When we planned for the meet we decided to fly A engine altitude because NARAM was flying B engine. So we suggested that contestants use 18 mm A engines which would yield lower altitude, yet easier to track flights. No one complained and Matt again took first in the B/T division with 143 meters beating out the Meatball Rocketry Team by only one meter! Steve Humphrey who was out tracking for the first series of flights flew last with a Quest A6-4 to win C division with a 189 meter flight. Thanks to NAR Trustees John Hochheimer and Jennifer Ash-Poole who manned the tracking scopes along with Steve Humphrey.

We opened the range for duration model flights and asked for Sci-Fi Future Fiction Sport Scale models to be turned in for static judging. We had a handful of sport flights being flown in the mix as well. The weather actually cleared and eventually the sun actually made a cameo appearance in the afternoon. Of course as in Oklahoma, the wind comes right behind the rain. Several contestants flew models for A streamer duration and 1/2A Parachute multi-round. Several flights seen performance reducing strategies put into place. An optimum model in either of these events was moving down range very quickly with the wind blowing 15+ mph. Small streamers and parachutes along with larger models were still challenging to recover. Several contestants at the meet, who have also flown in FAI contests, chose to use the 40mm models with the hopes of a lower altitude and the possibility of a recovered flight. Some flights were actually recovered on the other side of the tree line to the east. Chris Kidwell went after one of his models and once he recovered it, he actually found a few more models then we actually launched a few more with him recovering those as well. Good

Job Chris! In both streamer and parachute events, Matt Filler took first in the combined B/T division. Ryan Coleman took first in both events in C division.

B engine rocket glider was the other duration event. Some flights were made on Saturday some on Sunday. This time the Meatball Rocketry Team pulled out their big gun and flew their RC glider for two very nice flights in the stiff breeze for a total time of 97 seconds and first place. In C division I also flew an RC model but only mustered 56 seconds for two combined flights, but enough to edge out Jennifer Ash-Poole for first place. We had nine contestants qualify, yet two of them did not get returned flights with the breeze.

Future Fiction Sci-Fi Sport Scale had eight entries. Special thanks to Steve Humphrey for doing the scale judging for all eight models. This is what happens when you don't enter the event! You get to judge! Matt Filler and Chris Kidwell both flew the same prototype of the British Thunderstar Starchaser clustering 2 motors. Chris took first in C division. Ryan Coleman took second place and flew a Frieo model with six A8-3's and a core B6-4. The flight profile was a bit strange. When the model took off, one of the motors fired late as the others were coasting. Jim McGraw flew a very nice Lunar Life Boat model good for third place. I flew a Gauchito for fourth. Jennifer Ash-Poole flew her veteran Josie and the Pussy Cats model. Bruce Canino flew his Cosmos Mariner and was able to get a glide with some stall, yet a recovered flight. The Meatball Rocketry Team flew a larger version of the Josie and the Pussy Cats Model that was very nice. This model was the highest scoring model due to the high static score. It had a clear "windshield" showing the cockpit detail complete with fabricated crew chairs.

Sunday overall was a better flying day with no rain but the wind came back for a second day to wreak havoc on the contest and sport flights. My parents, my aunt, my brother, sister-in law, two nieces

and my nephew showed up on Sunday and enjoyed some sport flying. Thanks to Kevin Johnson, Chris Kidwell and Ryan Coleman they all did duty as Assistant RSO on Sunday. When we have soccer games going on at the adjacent field, we station an Assistant RSO along the sideline with a day-glow "Range-Safety Vest" and an air horn to alert the game of any model that may land on the field. We had no models come close to the field. For the two days, we only had 47 sport flights with most of them flying on Sunday. Kevin Johnson got in some nice RC flights with his Raven-9 and also flew my brand new Venus RC model that was converted from a DLG to fly with rocket motors.

We closed down the range and packed everything up about 2:30 and proceeded to the parking area to enjoy the picnic/bbq. Special thanks to my mom and dad, Bill and Mary Harvey for putting on the picnic. We all enjoyed dogs & burgers, home made salads and brownies, fresh cake and fruit for dessert. Everything was tasty, thanks Mom & Pop! I gave out the awards and sticking to tradition presented the Ole Ed Dead Last but Finished Trophy. We have been giving this special trophy out since ECRM 25 to the C division flyer from NARHAMS who has the lowest point total. The other stipulations are that a flyer can not win it twice and the winner has to be at the picnic. So even though I finished third in C division with 1017 points I presented the trophy to myself. Matt Filler racked up 1907 points out of the B/T division. Ryan Coleman won C Division with 1482 points. The Meatball Rocketry Team totaled 1746 points. NARHAMS won the meet with a total of 6897 points. I want to thank all of the contest flyers that attended. With only 13 entries everyone was multi-tasking to keep the range moving from timing, to checking in models, to returning models. Everyone contributed and it made the meet enjoyable even though the weather was not very good.

Hope to see you at ECRM-37 next year!



Space Day 2009 at the Maryland Science Center – Baltimore, Maryland

“The Maryland Science Center at the Inner Harbor of Baltimore was once again the focus of Space Day in Maryland, which was held this year on Saturday, May 9th. Space Day is an event held each year around the first Friday in May to generate interest among youngsters in the fields of aeronautics and space. Lockheed Martin is the primary sponsor of Space Day.” Amy Wood, the SpaceLink Exhibit Manager, was our contact person this year. The Maryland Science Center provided NARHAMS with four tables already covered with red tablecloths, and with a color poster of our club name. They provided us with carts for transporting our displays from and to our vehicle, and kindly came by with bottled water as the afternoon wore on. “NARHAMS was again invited to participate, along with NASA and space industry heavyweights such as the Johns Hopkins University Applied Physics Lab, NASA Goddard, the Space Telescope Science Institute, and ILC, Dover. Representing NARHAMS were Alex Mankevich, his brother Greg, and Ole Ed. That was just enough hands-on-deck to manage our four-table display (the largest of any exhibitor at this year’s Space Day). Brad Grant had gotten tied up with a problem at work. Raul Pena suffered a medical set-back just prior to this event. His attendance and contribution of model rockets would have greatly added workmanship and diversity our display. Fortunately, Alex had already secured rockets from NARHAMS President Jim Filler (a 1:30 scale and a 1:17.5 scale models of the Mercury-Redstone). Alex prepared a photomontage of Alan Shepard’s historical flight aboard Freedom 7 to accompany Jim’s rockets. Mr. Cluster himself contributed a dazzling display of Micromaxx rockets with already-made display boards. His ever-popular Micromaxx “crayons” display delighted visitors throughout the day. The rest of the model rockets were from Alex’s private collection, which featured two rockets with electronic payloads. Ole Ed had contributed a boxed display of Soviet space era lapel pins featuring their Luna and Soyuz missions. Ed also loaned the NARHAMS launch control panel #3, which became a magnet for several visitors. “This year we were situated on the science center’s second floor’s balcony overlooking the main lobby entrance (with a wonderful view of the waterfront). This turned out to be a “primo” location in that we were the first exhibit encountered by visitors when ascending the stairs from the main lobby.

Another benefit to this location was that we were next to the exit to the IMAX theatre, which let out new visitors at regular intervals. To our left were displays by the Chromatics and the Space Telescope Science Institute. To our right and front were NASA Goddard and the Applied Physics Lab. STS astronaut (Space Shuttle pilot) Ken Reightler had been stationed near our Astroblaster location for an autograph session. “Our main theme for this year featured numerous memorabilia from the Apollo era as this July marks the 40th anniversary of the Apollo 11 moon landing. Plastic models of the Saturn V, the Apollo Command and Service modules, and moon-walking astronauts were on display. Text books and vintage National Geographic magazines from the day were displayed. Scattered throughout the table were 5”x7” mounted photos of various Apollo exhibits at the National Air & Space museum, the Virginia Air & Space museum and the Johnson Space Center in Houston. A glossy 40th Anniversary 16”x20” poster was prepared by Alex, and served as a backdrop to this display. “Our interactive event was once again the Astroblaster foam rockets. Kids wandering by our exhibit were corralled and coaxed (with very little effort on our part) into launching the Astroblaster. In keeping with our Apollo 11 40th Anniversary theme, we directed the kids to try to land the foam rockets on a poster of the moon which was hung about eight feet high on the wall. All kids were encouraged to keep on launching until they hit the moon. All participating kids were awarded a paper cut-out of either the Space Shuttle or of our dear old mother Earth. We started the day with 120 of these cut-outs, and by 3:30 we had run out. Thanks to my brother Greg for his tireless efforts in spearheading this popular activity for NARHAMS. “While my brother was front and center with the Astroblaster activity, Ole Ed operated in a much more benign and behind-the-scenes fashion. He had used this Space Day to embark upon a “charm and schmooze” offensive with his contacts at the Maryland Space Business Roundtable and the American Institute of Aeronautics and Astronautics (AIAA). His personal touch will certainly produce opportunities and benefits for NARHAMS in the near future. “The Science Center operated several hands-on activities stationed throughout the facility. These activities included drawing Solar Art, “Make Your

ECRM-36 Standings

Random Altitude (185 m)

Place	Contestant	NAR Number	Section	Flight 1	Flight 2	Total	NAR Points
B Division							
1	Filler, Matt	71947 139	19.5 (221 m)			195	300
C Division							
1	Kidwell, Chris	45225 139	5.4 (195 m)			54	300
2	Filler, Jim	27862 139	14.6 (212 m)			146	180
3	Coleman, Ryan	59361 IND	17.3 (153 m)			173	120
4	Canino, Bruce	39989 503	23.2 (228 m)			232	60
5	McGraw, Jim	18071 520	25.9 (137 m)			259	30
6	Ash-Poole, Jennifer	61415 139	TL (TL m)				1000 30
6	Humphrey, Steve	17888 503	NC (NC m)				1000 30
T Division							
2	Meatball Rocketry	T-684 139	21.6 (225 m)				216 180
--	Ho Ho T-207 205	TL (TL m)			1000 30		

A Altitude

Place	Contestant	NAR Number	Section	Flight 1	Flight 2	Total	NAR Points
B Division							
1	Filler, Matt	71947 139	TL	143	143	300	
C Division							
1	Humphrey, Steve	17888 503	189			189	300
2	Coleman, Ryan	59361 IND	182	UNS	182	180	
3	McGraw, Jim	18071 520	155	178	178	120	
4	Kidwell, Chris	45225 139	176		176	60	
5	Filler, Jim	27862 139	151		151	30	
6	Canino, Bruce	39989 503	107		107	30	
--	Ash-Poole, Jennifer	61415 139	UNS	TL		0	30
T Division							
2	Meatball Rocketry	T-684 139	TL	142		142	180
3	Ho Ho T-207 205	126	NC	126	120		

A Streamer Duration

Place	Contestant	NAR Number	Section	Flight 1	Flight 2	Total	NAR Points
B Division							
1	Filler, Matt	71947 139	52	23	75	240	
C Division							
1	Coleman, Ryan	59361 IND	79	17	96	240	
2	Kidwell, Chris	45225 139	52	18	70	144	
3	Bock, Greg	44161 205	34	33	67	96	
4	Ash-Poole, Jennifer	61415 139	32	11	43	48	
5	McGraw, Jim	18071 520	42	SEP	42	24	
--	Canino, Bruce	39989 503	37 NR	UNS	0	24	
--	Filler, Jim	27862 139	47 NR	EJ	0	24	
--	Grant, Bradley	85261 139	35 NR	55 NR	0	24	
T Division							
--	Ho Ho T-207 205	75 NR	NR	0	24		
--	Meatball Rocketry	T-684 139	26 NR			0	24

Directions to College Park Airport:

Follow I-495 to Kenilworth Ave. South. Make a right onto Paint Branch Parkway, then make a right on Cpl. Frank S. Scott Dr. At the airport entrance go straight to the Operations Building, the annex building is adjacent to the "Ops" building.

ZOG ROYAL COURT

(NARHAMS OFFICERS)

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Jim Filler

301-524-4447

Vice Zog (Vice-President)

Chris Ha

COLLECTOR OF THE ROYAL TAXES (Treasurer)

Ed Pearson 301-577-7775

KEEPER OF THE HOLY WORDS (Secretary)

Chris Kidwell 571-434-7507

COURT JESTER (Section Advisor)

Mark Wise

NARHAMS serves Baltimore, the state of Md., Washington DC and the surrounding Metropolitan areas. The club is a section of the National Association of Model Rocketry (NAR) and we are the oldest continuously active model rocket club in the United States, first established as a high school club in 1963, changing our name to NARHAMS when chartered as a NAR section in 1965. NARHAMS is the only seven time winner of the NAR "Section of the Year" award.

Years won: 1997,1998,1999, 2001,2004, 2006, and 2007

NARHAMS members regularly fly their model rockets at NASA's Goddard Space Flight Center on Soil Conservation Rd. in Greenbelt Md. The launches are open to the public and are held the first Sunday of every month (weather permitting), starting at 1 PM.

Sport Launches are usually held the third Saturday of every month at Old National Regional park near Mt. Airy, Md. Check the web page for updates.

NARHAMS welcomes all prospective new members to our monthly meetings. They are held on the first Saturday of the month from 5:30 to 9:30 PM at the College Park Airport Annex Building. Dues are 10 cents a week, with an initial 50 cents up front (good for 5 weeks) as a sign of good faith.

Monthly meetings available on-line via chat-room , simply go to the NARHAMS homepage and click on the link.



<http://www.narhams.org>

Send and receive E-mail with other NARHAMS members through NARHAMS Web page group list via yahoo-groups.

ZOG-43

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ZOG-43 is the official newsletter of NARHAMS the National Association of Rocketry Headquarters Astro Modeling Section # 139

NARHAMS is the oldest model rocket club in the United States!

ZOG- 43 is dedicated to model rocketeers of all ages, abilities, and interest. We are committed to providing the most current, up-to-date information on model and real world rocketry, and to provide educational material as well as entertaining information. ZOG -43 is published monthly and is available to anyone on a subscription basis. Current rates are \$10 for meeting pickup or email or \$15 for postal mail U.S. Funds for 12 issues a year, payable to NARHAMS

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For more information.....

If you have any questions about ZOG-43 or NARHAMS, or if you have any comment(s), correspondence, free merchandise or if you'd like to submit an article, send them to :

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NARHAMS ON THE WEB

Coming in the August 2009 Issue

ZOG - FORTY THREE
3102 Eden Drive
Abingdon, MD 21009

Launch Schedule

SPORT LAUNCH
Old National Pike Park
9:00AM-4:00PM
July 18th
Goddard Contest 40th Anniversary
of Apollo 11
Goddard Space Flight Center
Visitor's Center
July 19th
NARAM 51
Johnstown, PA
August 8-14
SPORT LAUNCH
Old National Pike Park
9:00AM-4:00PM
August 15th



A Science Fiction Future Scale Rocket launching at ECRM 36. Photo by Steve Humphrey