



THE ZOG-43

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



Nov/Dec 2010
Vol 32. Number 11



Mark Wise inspects Kevin Johnson's kitbash before Flight. Read the October Launch report inside to find out how it flew! (*photo by Kevin Johnson*)

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AND MORE!

About NARHAMS

NARHAMS serves Baltimore, the state of Md., Washington DC and the surrounding Metropolitan areas. The club is a section of the National Association of 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.

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.

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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 bi-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 6 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 :

ZOG-43,
1404 Sweet Cherry Court
Severn, MD 21144

E-Mail ZOG-43 at:
zog43editor@yahoo.com
Zog-43 Editor: Jennifer Ash-Poole

ZOG ROYAL COURT (NARHAMS OFFICERS)

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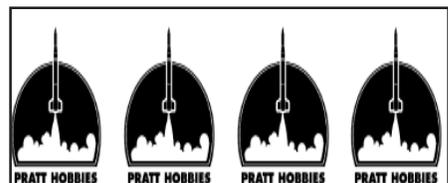
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Welcome New Members (Oct)

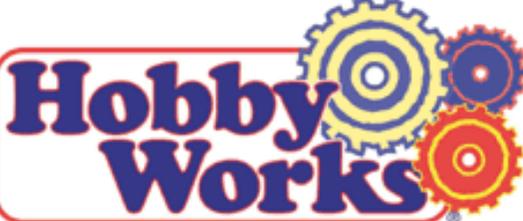
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Pratt Hobbies is proud to announce that we are now a QUEST dealer! Contact us for all your Quest and MicroMaxx products.

New T-Shirt! Check it out at www.pratthobbies.com

Mention your NARHAMS membership on the online order form for a Special Ludicrous Discount!



Save up to 20 % at Hobby Works when you show your club membership card.

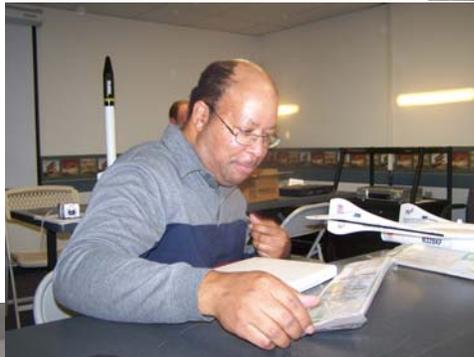
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Words from the King Zog

I am almost certain that someone by now has offered you warm wishes for the Holiday Season. If not, then I will kick it off by saying Merry Christmas and Happy Holidays. The holidays are always busy for us all and sometimes it is just nice to get together with friends for a casual get together and enjoy some good food, drink and conversation. I hope you find some time to enjoy your favorite activity that comes with the Holiday Season. The hobby of flying model rockets for me has been a part of 4 decades now; I've actually known some others in the hobby and even some in our club for that long as well. One thing that remains unchanged is the commitment to pass on the hobby to our youth. Do what you can to carry the hobby to today's youth so they will carry it onto the next generation and along the way they might just use it as a stepping stone into a real world profession. The second item is to never stop seeking information from the guys that have been in and around the hobby for a number of years or even decades. What we have as a club is something special. We have a diverse cross section of Americana in that we all share the same interest in hobby rocketry, but so many differences once we leave the flying field. Some of my dearest friends are club members and I value their friendship like no other. As a club we have made an impact on people in and around our club for years and years. Keep looking to the future, keep striving to reach the accomplishments we can reach, and above all treasure the times we are sharing right now.

Jim

See what you missed at the Oct meeting?



Photos from the Oct build session featured Rob Edmonds Kits. Rob make a rare appearance and shows off one of his RC gliders (top picture). John McCoy and Alex Mankevich discuss building something sinister (second from top). The group building (3rd from top). Kevin balances the Space Ship One. (4th from top)

(all photos by Bruce Canino)

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A Satisfying Goddard Launch - October 3, 2010

By Alex Mankevich – Vice Zog

When in the course of human events it becomes necessary for one people to discourse at length upon their reflections of a public launch conducted so eloquently that even the loftiest poetry and prose cannot do justice to adequately portray the enjoyment, excitement and gratitude experienced by the multitude assembled at the Goddard Visitor Center on Sunday, October 3rd, 2010. All rockets flew true, all kids were joyful, all parents were proud, all NARHAMS personnel were competent, and all was well with the world. To prove this, let facts be submitted to a candid world, in order so that future Goddard launches may come to be equally regarded as joyful, eventful, fruitful and beneficial.

Oh, the weather outside was delightful! Finally, a break from the oppressive heat of this past summer! Whereas the skies waxed progressively cloudier as the day wore on, no raindrops spattered upon our brows throughout the equipment set-up, launch and equipment break-down. A steady, light breeze frolicked throughout the day. However, a singularly memorable weather factor was the unusual direction of the wind. Goddard launch veterans will recall that the wind direction is normally from the GSFC parking lot, over the Visitor Center, then towards the Visitor Center's parking lot. This Sunday the wind was from the opposite direction. This factor gave us the unusual sight of witnessing rockets descending toward the launch rack from the unfamiliar direction of from (not towards) the Visitor Center building.

On hand to conduct this launch were Ole Ed who performed flawlessly as Launch Manager and Announcer, Jennifer Ash-Poole did double duty as Safety Check-In/RSO and Rocket over-the-fence Retrieval, Mike Cochran again served in his familiar role as Der Pad Fuhrer (DPF) and Alex Mankevich reprised his role as Der Rocket-Handout-Meister (DRHM). Two fresh faces join this grizzled group of gallant gauchos. Jay Emmanuel joined Ed and Mike at the launch rack as Pad Assistant and new NARHAMS member Charles Davis joined Alex at the Rocket

Hand-Out table. Both our newbies "earned their wings" that day, and the old guard was grateful for their enthusiasm, competence and tireless efforts.

Ole Ed, as per usual, lent dignity and class to the launch day by performing two (2), count 'em, two dedications. The first flight of the day was dedicated to Janet Bauer who has recently retired after several years at the Visitor Center Gift Shop. And of course, a rocket flight towards the end of the day was dedicated to the memory of Herb Desind.

I know you number-crunchers out there in ZOG-43 land will devour me for not feeding you, so here we go with the numerical facts. This launch began at 1310 hrs and concluded at 1500 hrs. We flew sixty-two (62) rockets on eleven (11) racks. Thirty-one (31) certificates were awarded to first-time fliers. Five (5) hand-out rockets were secretly "spiked" by Charles and Alex with orange tracking powder much to the delight of Mike Cochran. About four or five rockets were lost to the rocket-eating trees. All our efforts, enthusiasm and benevolence that day resulted in four (4) new members joining NARHAMS. I don't need to remind you that numbers don't lie!

Ole Ed was in rare form that day, and he innovatively inserted a special treat into the launch activities. Dimitre Avramov was persuaded to demo his Apus II radio-controlled glider. His model normally launches with a D or E motor, but due to the new TSA

restriction to D impulse motors, Dimitre had to hand-launch his glider. All of us were treated to a memorable demonstration of skillful piloting, assertive flight control and imaginative flight path. After the glider touched gently down, the crowd roared its approval, and Ole Ed had no choice but to command Dimitre to perform a second demonstration.

At the end of launch activities, Ole Ed conducted a debriefing session at which we all contributed our insight as to how to keep future launches just as successful. The general consensus was that sufficient personnel accompanied by favorable weather are a winning combination.

Those of us who have "been there" have known for a long time that a Goddard Launch, like love, is a many-splendored thing. However, we are now coming to realize that a Goddard Launch, like diamonds, is also a many-faceted thing. I pontificate now upon the evolution of our Goddard Launches from a straightforward march of rocketeers towards the launch rack, to a more benevolent, instructional and interactive sharing of launch fun between NARHAMS and the Goddard visitors.

Since before the hiatus imposed by the TSA waiver paperwork, we have been making "loaner" model rockets available to Goddard visitors who find themselves at the Visitor Center on launch day without a rocket to fly. Ole Ed occasionally announces to the gathered audience that we have loaner models available, and we engage in



"passive outreach" as we permit families to borrow a rocket from our hand-out table. We also engage in "coerced outreach" which goes something like: "*Here kid, fly this rocket (or ELSE! is implied)*". Our unselfish acts of compassion have allowed us to engage many more kids
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and families as they gratefully get to participate in the day's launch activities.

I have noticed that the loaner table has had a couple of unanticipated benefits. One benefit is that it provides another venue at which visitors can engage NARHAMS members to solicit help in assembling their model(s) for flight. Otherwise these solicitations would be addressed at a very busy RSO who's often overwhelmed with Safety Checks and rail assignments. I confess myself to be as guilty as the next NARHAMS member who tends to believe that every visitor at Goddard has at least some rudimentary knowledge of model rocket preparation. In truth, an appreciable number of families have recently bought a model rocket for the first time. Sometimes, they are approaching us for assembly advice having walked directly from the Visitor Center Gift Shop with a spanking new rocket still in its package. These folks should be receiving our patient and insightful advice, since in the end I believe they are soliciting our help so that they can be confident that their rocket can be placed upon the rack without unduly interrupting the ebb and flow of the launch activities.

A second benefit to the loaner table is that it serves as a venue at which visitors can ask general rocketry questions, ask about NARHAMS and to share stories of their rocketry adventures (every kid swears he's had a rocket that's touched outer space). These are the folks that correctly perceive the RSO and LM as too busy to interrupt, and are glad to have a venue at which to safely and satisfyingly interact with a NARHAMS member. Most of the interactions I've had are with families that marvel at how a model rocket functions, and are happy to get a detailed walk-through of the parts and assembly sequence of a typical model rocket. And we must be doing something right, as I'm increasing getting questions as to how one can join NARHAMS or how can someone bring a scout group to a future Goddard launch.

A third benefit to the loaner table is that it serves as a venue at which visitors can "close the loop" to their Goddard rocketry adventure. Picture if you will the circuit the visitor travels: from the loaner table, to the Safety Check line, to the RSO, to the launch pad, to Old Ed's countdown, to the model recovery and finally back to the loaner table to return their model. The family arrives at the loaner table flush with launch, adrenaline and excitement, and it doesn't stop there. A first-time flyer certificate is awarded to those who qualify and a new NARHAMS decal is bestowed upon the worthy. All that is left is for the loaner table personnel to accept the gratitude and appreciation expressed by the visitors. It takes a very special kind of NARHAMS member to professionally soak up these heart-felt expressions, but I do my best!

Which brings me back to my earlier statement - that a Goddard Launch, like diamonds, is a many-faceted thing. At the launch rack, we experience the raw excitement of the rocket launch and the chase to recover the rocket. At the loaner table, we experience the gratitude as expressed by the visitors as their launch fun is capped off with a flight certificate and decal. These two venues, launch and loaner, are regrettably separated by both distance and function. Never the twain shall meet. The NARHAMS personnel at the RSO and launch venues cannot be showered by the gratitude that is the burden of the loaner table personnel. The NARHAMS personnel at the loaner table cannot be lifted by the flight excitement that must constantly be suffered by the launch rack personnel.

And so, we NARHAMSTERS toil ceaselessly - unselfishly and diligently attending to our launch duties as the Goddard visitor experiences all the fun and excitement of launching a rocket at NASA! Yet, our dedication is not without its rewards. A generous and gentle nature is cherished by all. Hard work disgraces no one. We are touching both hearts and minds, whether we experience it as an overt "thank you" or realize it latently as we recognize visitors returning at a future Goddard launch. I have no doubt whatsoever, that on Monday October 4th, several kids told their friends and school classmates what fun it was to launch at Goddard. Likewise, I have no doubt whatsoever, that on Monday October 4th, several parents told their work colleagues and/or family members that a rocket launch at Goddard makes for a great family outing.



All Photos by Alex Mankevich

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Launch Report, October 23, 2010

by Mark Wise, Launch Manager

Nobody really likes to cancel a launch, but NARHAMS had no choice for the primary date of the October launch. The forecast for the original date started bad and got worse as the week wore on. By Friday the 15th, it was clear that the following day's winds would be beyond the limits of the Safety Code and common sense. I made the no-go call at noon.

Fortunately, the weather was nearly perfect on the alternate date. The morning warmed up quickly, without much wind, and the sky was clear. After breakfast at the Dunkin' Donuts in New Market, Jim Filler and I motored to the storage locker to pick up the range gear. We elected to set up only one rack, in the belief that rain dates aren't usually as well attended, that we would have no Scouts flying, and that it was too early in the school year to start seeing TARC teams. We were proven right on all counts.

Jim had another commitment for the day, so he stayed just long enough to help set up the range and watch the first few flights. Thanks for the help, Jim!

Jennifer Ash-Poole and Kevin Johnson made the first two flights of the day. Bubbles' entry in the NARHAMS kitbash competition lifted off on a C11-3 into calm winds and clear skies. With a nice, straight boost and a good recovery, she chalked up her qualification flight for the competition. Kevin elected to build a two-stager, sequencing from a C6-0 to a C6-5. Both stages boosted nicely, but the streamer drag-separated at burnout. The booster sustained some minor impact damage, but the upper stage survived just fine. Nice flights, you two!

Pleading other commitments, Jennifer left shortly after her flight, while Kevin stayed on to fly his Noris A-9, based on the German missile design. It flew in a graceful arc, with the parachute deploying at apogee. Kevin's choice of a C11-3 turned out to be a good motor for a fairly heavy bird. He went on to fly his Bomarc and his Spaceship Argosy, which both turned in nice flights.

Daniel Anisimov turned in several nice flights, but he had *horrible* luck



Mark Wise, RSO (photo by Alex Mankevich).

with the rocket-eating trees. His Farside landed in trees *twice*, but he got it back both times. Thanks to Kevin for helping him recover his rockets. Daniel's Der Red Max took the launch rod along with it, which obviously ruined its performance. It staggered downrange and impacted before the chute could deploy, for one of only two hairy flights that day.

Alex Mankevich turned in nine flights during the day, starting off with his Cold War 1, followed by his Deleterious Subpar (the inverse of "Optimus Prime"). He went on to fly his Blunt Object, a tube-finned original design that few well on a B6-6, his Air Force 1A, a Golden Snitch, and an Edmonds CiCi. The CiCi's first flight boosted nicely on a B4-4 but headed for the trees, turning away just in time. Fate will not be denied, however, and the CiCi's second flight hung up in a tree. Between the CiCi flights, he flew a Pencil, another original design with a clever feature: he could actually write with the "tip" of the pencil, i.e. the nose cone. Clever!

We can always count on Mike Howie to bring out some interesting rockets. With 18 flights, he was definitely the day's leading flyer. He flew his Camere, an original design that lofted a camera on two D12-5's. With a boost that could best be described as "majestic," with very little oscillation during on boost, the footage should be great! Mike's other flights included the only cluster flight of the day. His camera-carrying

Atlas clustered two A10-3T's in strap-on boosters and two C6-5's in the sustainer. The strap-ons came down under streamers, for a nice effect and a pretty flight. In keeping with an October launch, he flew several rockets with Halloween themes, including a Scarecrow odd-roc and rockets called Reaper, Pumpkin, Spooktacular, Spooky, and Goblin.

Mike also turned in the other hairy flight of the day, with his HVTV, an original design on a C6-5. He marked the flight card "Heads up, please," which turned out to be a good precaution. While the wind wasn't terribly strong (8-10 mph), HVTV oozed off the pad on a C6-5, arced over sharply and entered a death dive. The parachute deployed in the nick of time, for a safe recovery, but it was indeed a heads-up flight. Thank you, Mike, for the advance warning – that was a good idea.

John McCoy ran an interesting experiment during the day – a reusable igniter for MicroMaxx motors. With two flights on a Quest RTF UFO, a UFO Saucer, a Tri-ny F-O, a Scimitar and a Stealth (both from Qubit), a Tasmanian Devil, a Chap-Stick odd-roc, a Spool Daze (an original design), and his Halloween-themed Bat, John did indeed score many flights off *one* igniter. Impressive!

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Tom Anderson enjoying the day (photo by Alex Machevich)

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Kyle Mobry only flew four rockets during the day, but they all shared a Halloween theme. His Jack-o-Lantern Fright Light was just a bit underpowered on a B6-4. It lawn-darted an instant before ejection. His Flyin' Ghost looked like a bit like a big badminton bird. He requested heads-up and no wind for the flight, which was nominal on a C6-3. He closed out his flying with a MicroMaxx Pumpkin Stack, which let him finish the day with a nice, short recovery walk.

Other rocketeers turned in some nice flights during the day, too. In no particular order, Isaac Schofer lost his Taser Twin, as expected, after a great boost. He also successfully flew an Eggscaliber with an egg on a D12-5, and a Shuttle Express with two parasite gliders. Fabrice Darullieux flew a P.O.N.G. to three good flights, as well as a Solar Flare that staged from a C6-0 to an A10-3T. A good flight, but the sustainer landed in (you guessed it) the trees. Kevin Knebel flew a Quest Triton-X on a C6-5, an Estes Metalizer, a Big Bertha, an Estes Crossfire ISX into the trees, and an Estes Summit. Tom Anderson made seven flights ranging from a Golden Scout to a Tri-F-O. Frank Panek flew a Quest Skybird and a Big Bertha successfully. Jef and Ellen Fineran came by later in the day, with Ellen flying her kitbash Disney's Castle Express kitbash (DQ/unstable, unfortunately), and Jef launching his Felony Flyer. Ellen also flew a Skywriter, which landed nicely despite a fouled parachute, and Jef attempted to fly his Stormcaster, but it hung up on the pad.

While we didn't have any Scouts or TARC teams launching that day, club members and regular attendees logged a total of 77 flights. That was a good pace for a six-hour launch window. The comfortable weather and light winds helped make for a very successful sport launch.

Special thanks are due to Jim Filler for transporting the range gear from the storage locker, and to Frank Panek and Alex Mankevich for hauling it back and putting it away.



Kevin Johnson with his A-9 (photo by Mark Wise)



Mike Howie and his Grim Reaper (photo by Alex Mankevich)



McCoy Tent ready for fall! (photo by Alex Mankevich)



FRANK PANEK GETS LEVEL 1 CERTIFICATION

On Saturday, October 31st, Frank (WVrocketman) Panek completed his High Power Level-1 Certification with the assistance of NOVAAR member Timothy Brookwalker at Great Meadows, VA. The rocket was a LOC Precision ISIS flown with an Aerotech 29mm H128 white lightning. The rocket was equipped with an Altimeter-1 which recorded an altitude of 1498 ft. It was a perfect day for flying with clear skies and a light wind from the southwest. I was lucky on the conditions as the wind picked up significantly later that afternoon. The rocket landed safely about 300 ft downwind of the launch pad. The next flight will include an electronics bay set-up for dual-deployment which I am still working on. I hope to fly this model in December or January with a 38mm Aerotech H55W which should take the rocket to about 2200 ft. This was definitely fun!

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OCTOBER LAUNCH	Mike Howie	18
STATS!	John McCoy	10
	Alex Mankevich	9
MMX-12	Tom Anderson	7
1/2A - 3	Daniel Anisimov	5
A - 17	Kevin Johnson	5
B - 16	Kevin Knebel	5
C - 20	Fabrice Derullieux	4
D - 4	Kyle Mobry	4
Staged - 3 (CA, CC, CC)	Isaac Schofer	3
Clustered - 1 (DD)	Ellen Fineran	2
Parallel - 1 (AACC)	Frank Panek	2
Total Flights = 77	Jennifer Ash-Poole	1
	Jef Fineran	1
	Igor Veshovsky	1



Craig Kuhn receiving the flag.
(photo by Alan Williams)

Rocketeers at Howard Kuhn's burial at Arlington Cementary



from left:

Jim Barrowman, Alexander Mitiuriev, Bob Kruetz, Robert Biedron, John Langford, Harold Youngren, Trip Barber, Fritz Gnass, Taras Tataryn, Mark Bundick, Bill Stine, Terry Lee, Ed Pearson, Peter Cook, Craig Kuhn.

(photo by Alan Williams)

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Howard Kuhn Laid to Rest (from compiled reports)

Howard Kuhn, formerly of MARS, NOVAAR and NARHAMS was buried October 26.

The words below come from the on-line Ye Olde Rocket Forum by a modeler using the nom de plume GuyNoir:

“Long time NAR member, FAI Team member and manger, and FAI volunteer Lt. Col Howard R. Kuhn was laid to rest earlier this week...

NAR President Trip Barber said, in a message to those of us attending:

“Howard’s United States Army did him proud with the full-honors military funeral by the 3rd US Infantry Regiment (the Old Guard) at Arlington National Military Cemetery, and Ed Pearson spoke for us all with his eulogy and by reading the great words sent by Howard’s long-time friend Srdjan Pelagic. It was a privilege to be there to salute a friend and fellow rocketeer who so greatly influenced our own lives and experience in the hobby and who made such a difference with his leadership in this activity across the world for so many years.”

I was proud to be part of the picture and humbled to be in such distinguished company. At our gathering, I counted three NAR Presidents, one CAR President, four NAR Contest Board Chairman, eight past NAR National Champions, three US FAI Team Managers, and three FAI Gold medalists.

Howard’s impact on lives cannot be easily measured. I recalled my conversation with Barbara Stine upon Harry’s passing where I reflected that Harry changed my life. So it was with Howard. His legacy to the sport and hobby that we loved could not be more clearly defined than by looking at the picture distributed by Trip and seeing the commitment his actions reflected, the people across continents with whom he connected, and the lives that he changed.”

Srdjan Pelegic, the FAI CIAM spacemodels subcommittee chairman, wrote these words from Serbia which were read at the funeral:

“I am not able, unfortunately, to come to Arlington on 26th October to attend the Howard R. Kuhn’s service and his farewell into eternity, but we, spacemodellers of the world, expressed our respect to him and all what he did for spacemodelling (as the FAI Space Models Subcommittee Chairmen for 17 years of his chairmanship) at the Opening Ceremony of the 18th World Spacemodelling Championships 2010 held last August in Serbia.

The (w)hole audience of more than 1000 people from 23 countries from America, Asia and Europe with 343 official participants and 39 former world champions stood in silence one minute. This was followed by a short but warm and friendly address on Howard’s contribution to the spacemodelling.

Howard was a military man, but for spacemodellers he was like a father, or better to say like an uncle, always ready to teach and to help to every team or individual in finding best and shortest way to highest achievements. During his chairmanship from 1979 to 1995 spacemodelling converted from a hobby to a serious airsport with very precise rules. It also became one of the fast-growing airsports in FAI. During this long period of time people from 39 countries from four continents were active in spacemodelling. Howard also supported introduction of Space Model World Cup contests, which are now the most effective engine for spreading spacemodelling to new countries.

Howard was also an active airsportsman that started his activity in aeromodelling far before the WW II and who joined spacemodelling at its very beginning. Howard took two bronze medals in 1972 and 1974 at two first spacemodelling World Championships in most complex classes at that time scale models and scale altitude.”

Here in the states Howard was recognized for many accomplishments, including 1969 senior NAR champion, 1975 NARAM CD, founder of Competition Model Rockets, introduced piston launchers, pop-lugs, vaccum formed egg capsules, and popularized the use of Mylar parachutes. He was also the CD for the fourth WSMC in 1980 held in NJ, and along with Albert Nazarov of Russia got the US/USSR Spacemodeling Competition and Cultural Exchange to happen in 1988.

Howard is survived by his son Craig. Richard Sipes, founder of the Washington-area MARS section of the 1970s is Howard’s brother-in-law.



(photo by Alan Williams)

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Volunteers Make it Work Again at Goddard by Ole Ed

The November 6 launch at the Goddard Visitor Center went off as planned. One could write about the 260 visitors that came out compared to the 25 the day before, or the 18 racks of rockets launched (approximately 100 total flights), or the 48 new flyer certificates that were handed out until we ran out of stock. But the real story and the continuing success of the program, started 34 years ago, are the volunteers. These are the people who make it possible for the thousand or so rocketeers there each year.

Two of the regular helpers Jennifer Ash-Poole and Michael Cochran were not going to attend that day. Jennifer usually does safety check-in and Mike assists at the pad.

Jim Filler put a plea out for help on the distribution group and Frank Panek and Raul Pena responded saying they would come. At the club meeting the night before, Thomas Rackers said he'd show up, but it would be after two too (and he did too).

NARHAMS Veep Alex Mankevich came and did safety check-in for a line of modelers a block long. Alan Williams lent out about 20 models from an inventory kept at the Visitor Center and tracked the first flier certificates. Frank assisted with the rack as well as Raul who also helped Alex

keep the next six modelers in line at bay.

Because there were sooooo many rocketeers, Thomas helped corral the next six, so we had 12 people waiting for the rails to free up while Alex checked in the next six. Sound confusing? It ran like clockwork thanks to NARHAMS.

Okay so two of the volunteers live nearby, but Frank traveled from West Virginia to help, Thomas hails from Columbia, Alex and Raul are both from Baltimore, so there is some great dedication with these folks. Of course Alan's dedication (one of the locals) is legendary in the NAR. (I was the other local and did the RSO/ Firing/PA stuff).

Near the end of the launch Dave Embody made it through the line to launch his Big Bertha-type model. Dave is a NAR member who flew 25 years ago at Goddard, and now is NARHAMS newest club member.

The last launch was Raul's kit bash model's qualifying flight. It was one of the neatest flights I have seen. A wind shear gust hit it broadside, seemingly stopping its flight, moving it two feet to the left and then allowing its upward passage. For some reason I was reminded of the ID in Forbidden Planet wrecking its invisible force.

You see a lot at Goddard.

Would you like to help? We launch there on the first Sunday monthly, weather and security permitting. Please give me a call sometime before a launch (301-577-7775) so a slot can be made for you. Thank you volunteers.



Top photo by Ed Pearson, rest of photos by Alex Mankevich

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Westowne ES Extravaganza by Ole Ed

The fourth grade students of Ms. Myers, Mr. Willig, and Ms. Bozeman of Westowne Elementary School in Catonsville, Maryland were treated to a model rocket showcase this past Veterans Day. Tom and Joanna Bagg showed up in a van loaded with space suits, rocket gear, magazines, paraphernalia, and tales of spacecraft to the delight of the three classes assembled in the school's gym/auditorium.

While Tom presented a history of rocketry to the students, Johanna got three students dressed up in the latest space fashion—Madison wrapped in clean room bunny garb, Christian in Space Shuttle coverall blues, and Omar in an EVA spacesuit.

Following a pitch on the importance of a good education (Johanna), Tom discussed the laws of motion to the assembled and previewed launch procedures the students would need later. Tom then called for a young lady named Margaret to come forward. Margaret's model was judged the best decorated and she was awarded freeze-dried space ice cream for her efforts.

Following the hour-long presentation and lunch the classes, and in fact many other classes, adjourned to the athletic field for the model rocket launch.

The students had previously gotten permission to build Alpha IIIs, and assembled the models Tom provided. Now it was time to fly.



Ms. Vogel the principal and Ms. Ferris the assistant principal joined the kids. In 1.5 hours 70 plus models were flown. None of the models separated in flight, thanks to Tom's late night rechecking, there were only two misfires, and only three models got caught in trees ringing the field.

NARHAMS launch system 3 supported the activity with the new wireless PA system. After the flights the students returned to class while the equipment was cleaned and packed up for the next outreach event.

Tom indicated he was in his 13th year teaching and demonstrating model rockets at Westowne. He started out when his own now-23 year old son attended the school more than a decade ago.

(The author assisted with the launch).

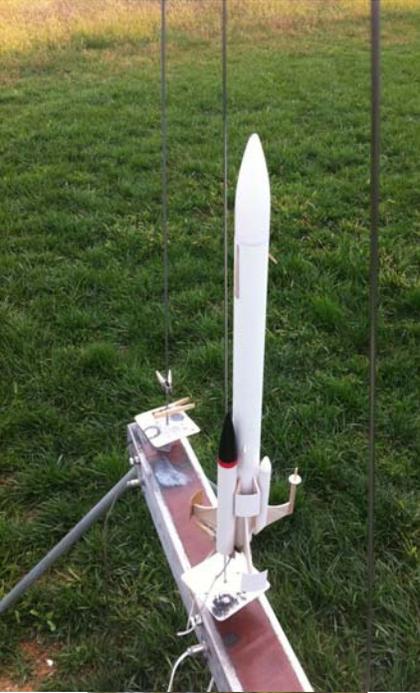


All photos by Ed Pearson

THE ZOG-43

NARHAMS PHOTO PAGE

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1. Kevin Johnson's Kitbash (photo by Kevin Johnson)
2. Ellen Fineran's Kitbash (photo by Alex Mankevich)
3. Don Brown's V-2 at Red Glare (picture provided by Jim Filler)
4. Renegade Kitbash Bomarc-E (photo by Kevin Johnson)
5. Bubbles Qualifies! (Kitbash) (photo by Mark Wise)
6. Mike Howie's Truck of Rockets (photo by Alex Mankevich)

THE 206-43

NARHAMS 2011 CALENDAR

Jan 2	1 - 2 pm	Goddard Launch	Greenbelt, MD	
Jan 8	5:30 - 9 pm	Monthly meeting	College Park, MD	Build your holiday present
Jan 15	10 am - 4 pm	Sport Launch	Mt. Airy, MD	
Feb 5	5:30 - 9 pm	Monthly meeting	College Park, MD	Glider building session (Robert Edmonds)
Feb 6	1 - 2 pm	Goddard Launch	Greenbelt, MD	
Feb 19	10 am - 4 pm	Sport Launch	Mt. Airy, MD	R/C Glider Theme
Mar 5	5:30 - 9 pm	Monthly meeting	College Park, MD	Presentation on first men in space (Alex Mankevich)
Mar 6	1 - 2 pm	Goddard Launch	Greenbelt, MD	
Mar 19	10 am - 4 pm	SportLaunch	Mt. Airy, MD	Goddard Theme
Mar 26	10 am - 4 pm	FAI S8 Fun Event	Capitol College, Laurel, MD	
Apr 2	5:30 - 9 pm	Monthly meeting	College Park, MD	Mercury capsule contest judging (Alex Mankevich)
Apr 3	1 - 2 pm	Goddard Launch	Greenbelt, MD	
Apr 16	10 am - 4 pm	Sport Launch	Mt. Airy, MD	Decorated Eggloft Theme
May 1	1 - 2 pm	Goddard Launch	Greenbelt, MD	
May 7	5:30 - 9 pm	Monthly meeting	College Park, MD	Generic NARAM building session
May 14	12 - 7 pm	Sport Launch	Mt. Airy, MD	US/USSR Spot Landing
May 21	7 am - 5 pm	TARC Finals	Great Meadow, The Plains, VA	
Jun 4	5:30 - 9 pm	Monthly meeting	College Park, MD	Review logistics for CAP search and rescue exercise
Jun 5	1 - 2 pm	Goddard Launch	Greenbelt, MD	
Jun 11	10 am - 4 pm	CAP Search and Recovery Exercise	TBD	
Jun 18 - 19	9 am - 5 pm	Sport Launch	Mt. Airy, MD	ECRM Regional Meet, events TBD
Jul 2	5:30 - 9 pm	Monthly meeting	College Park, MD	Picnic, bring a dish to share (Mark Wise)
Jul 3	1 - 2 pm	Goddard Launch	Greenbelt, MD	
Jul 16	12 - 7 pm	Sport Launch	Mt. Airy, MD	Multistage Theme
Jul 23 - 29	9 am - 11 pm	NARAM-53	Lebanon, OH	
		1/2A ALT, A-HD, 1/4A FW, 1/2A SRD, C RG, 1/8A SD(M), C-ELA, R&D, B Scale Alt, PMC		
Aug 6	5:30 - 9 pm	Monthly meeting	College Park, MD	NARAM recap, open building session
Aug 7	1 - 2 pm	Goddard Launch	Greenbelt, MD	
Aug 20	12 - 7 pm	Sport Launch	Mt. Airy, MD	Streamer Theme
Sep 3 - 4	9 am - 5 pm	RAMTEC	Ft. Indiantown Gap, PA	
Sep 4	1 - 2 pm	Goddard Launch	Greenbelt, MD	
Sep 10	5:30 - 9 pm	Monthly meeting,	College Park, MD	Election
Sep 17 - 18	9 am - 5 pm	Capitol Cup 2011	The Plains, VA	
Sep 17	12 - 7 pm	Sport Launch	Mt. Airy, MD	Paratrooper Spot Landing , Night Launch
Oct 1	5:30 - 9 pm	Monthly meeting	College Park, MD	Ole Ed Movie Festival (Ed Pearson)
Oct 2	1 - 2 pm	Goddard Launch	Greenbelt, MD	
Oct 15	12 - 9:30 pm	Sport Launch	Mt. Airy, MD	Halloween Theme
Nov 5	5 - 9 pm	Monthly meeting	College Park, MD	Planning meeting
Nov 6	1 - 2 pm	Goddard Launch	Greenbelt, MD	
Nov 19	10 am - 4 pm	Sport Launch	Mt. Airy, MD	Military Theme
Dec 3	5 - 9 pm	Holiday party	Greenbelt Community Church, Greenbelt, MD	
Dec 4	1 - 2 pm	Goddard Launch	Greenbelt, MD	
Dec 10	11 am - 3 pm	Sport Launch	Mt. Airy, MD	

SPORT LAUNCH
January 15, 2011
Mt. Airy, MD

January 2, 2011
Visitor's Center
Goddard Space Flight Center
PUBLIC LAUNCH

SPORT LAUNCH
December 18, 2010
Mt. Airy, MD

December 5th, 2010
Visitor's Center
Goddard Space Flight Center
PUBLIC LAUNCH

Launch Schedule

206 - FORTY THREE
1404 SWEET CHERRY COURT
SEVERN, MD 21144

