

The Zog-43

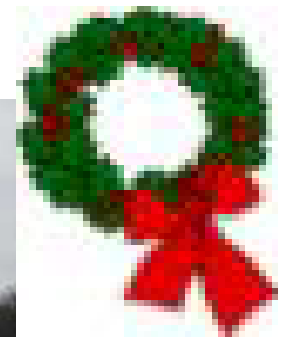
The Newsletter of NARHAMS, NAR Section #139.
NAR National Champions 2001, 2004

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

The ZOG-43 is an eight-time winner of the NAR/LAC "Rockwell" Trophy, recognized as the best NAR section newsletter. Years won: 1969, 1973, 1975, 1990, 1991, 1992, 2003, & 2004

*December 2009
Vol 31. Number 12*

HAPPY HOLIDAYS!!!!!!!!!!!!!!!



The November Sport Launch or What is that Crunching sound?

After being rained out in October the weather was cooperative in November for NARHAMS to have their monthly sport launch. HQSM 43 which was also scheduled in October, was also going to be held this weekend. We also had TARC Teams needing to do test flights and our the Kit Bashers needing their qualifying flights. What was surprising and in one case a little scary were some of the mishaps that happened that day.

The day started out bright and early. I was to meet Jim Filler at the Storage facility around 8:30. However, the battery in my car died that morning and delayed my arrival to the range until 11:30.

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HQSM 43 Results

BUT WAIT THERE'S MORE!



MICRO MODEL MAGNIFYING

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

15731

Special Cardstock Christmas Tree issue:

Well I thought as it's just about Christmas time and the Holidays are right around the corner I'd revisit an Old but fun Micro Modeling technique and Model

Micro Christmas Tree:

This model goes back to 2003 and the Plan is really 3 pages rather than one. So our Editor may be making some compromises on what exactly gets published this issue.

Our Christmas tree is build around a T2+ tube with each of the 7 branch layers a 2-cone laminated layer. It's best to print Pg #3 first on 110lb cardstock, which gives a solid green background on which to overprint the lighter green branch layers found on Page #2. The rest of the construction is fairly straight forward following the page #1 layout plan. I used .030" clear lexan for the support base fins to connect the red base ring to the motor tube. I used a 1/16" coffee stir stick as the launch lug. The nose-shoulder is nothing more then a T2 tube 9/16" long fitted over the top most limb layer.

Kevlar 50-70lb shock line and 1/2" Teflon tape streamer complete the recovery system. Additional decorations can be added or another layer of paste on limbs cut from the patterns.

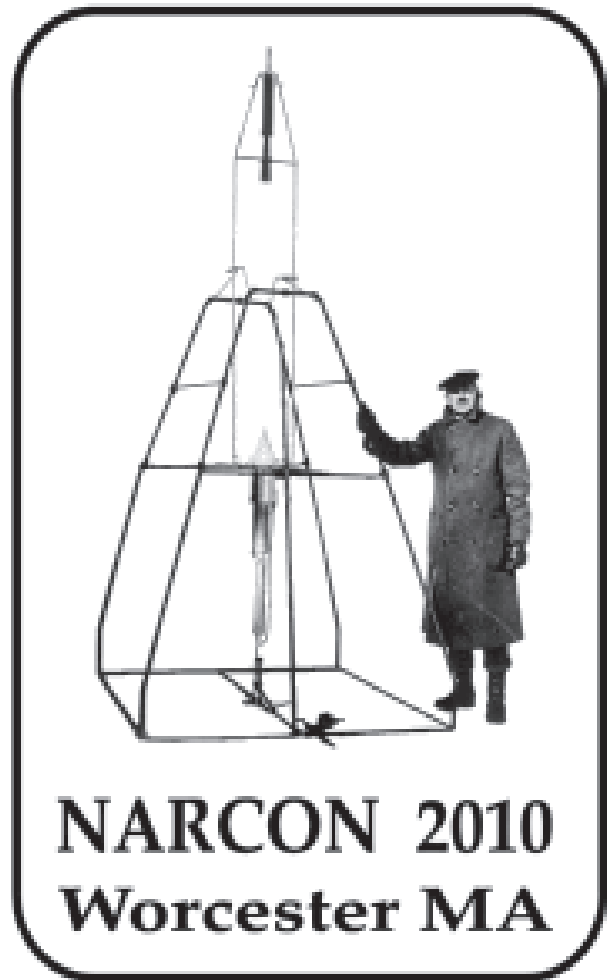
THIS MODEL requires Nose weight!

Exact amount will depend on your construction. I really can't give you an exact amount however the original model needed 1.4g of lead shot to get a stable flight, which filled just about all the room in the T2 shoulder tube along with the Kevlar attachment loop secured with CA.

I found a string of very light weight dollhouse fake lights and garland to add then misted it with glitter and UV Clear to complete the model. Ended up looking fairly nice and doesn't fly all that badly either.

Do take note! This model is very draggy so it is badly affected by surface winds over 5 or 6 mph.

Next month we'll get back to the Micro Tower discussion planned for this month.



NARCON will be held on March 13 and 14th 2010 sponsored this year by CMASS. Please Stay Tuned for more details.





Words from the King Zog

As the year 2009 rapidly comes to a close, we also are about to close another decade. In human terms we are lucky if we get to see 8 or 9 or even 10 decades through our lifetime. Some will argue that the decade doesn't end until the end of 2010; I say whatever you think is fine by me, life is too short. 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, I won't mention any names because I wouldn't want to embarrass anyone. Initials are OK I'm sure for those that know him good Ole Ed Pearson has been an acquaintance of mine since about 1975 or roughly 35 years. Dog gone it Ed..... I'm starting to feel old just writing this article. One thing that remains unchanged is the commitment to pass on the hobby to our youth. One more thing I would like to mention since I singled out Ed remember just by using his initials, you figured out who I was talking about ☺, I still enjoy hearing the stories Ed has to offer about the early days of the hobby and the club known as NARHAMS. As we enter the next decade as members of the club, I would encourage you to carry these two items with you. One 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. We have quite a list of accomplishments that I could rattle off right here writing this article. There is no time for that now, we've got to 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, and in the future to come.

Jim

Kevin Johnson's Outreach at Great Meadows

Here's a photo from an outreach launch I did with Pack 41 in Fairfax on Saturday 12/5. I helped them build Pratt Hobbies Super Six kits back in October with the plan to attend NOVAAR's November launch. Schedule conflicts arose so we planned on a local launch at one of the nearby schools. I took one of the NARHAMS racks down and started to set up. Eight of the twelve scouts showed up to fly thier rockets in the light rain. By the time I got everything set up and ready, the rain had turned to heavy snow. What's a little cold and snow to scouts? We flew a mini power series with A8-3's in the first 3 rockets, B6-4's in the second 3, and the last 2 rockets flew on C6-5's. The scouts had a great time and were very excited to be able to fly and meet the requirements for there merit badge.





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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 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.

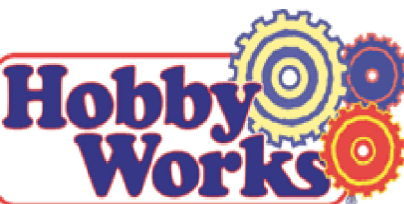
Sport Launches are usually held the third Saturday of every month at Old National Regional park near Mt. Airy, Md. Check the web page for updates.

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.

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.



NARHAM Members
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Save Up to 20%

ZOG-43

Volume 31 Number 12

December 2009

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. Material in ZOG-43 is not copyrighted. Free and unlimited reproduction is granted with the proper credit to the author and/or ZOG-43.

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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COURT JESTER (Section Advisor)

Mark Wise



The Zog-43



The November Sport Launch or What is that Crunching sound? Con't

Upon arriving with the eggs, there were many flights already completed. So I missed some of the mishaps from earlier. Personally I was looking forward to flying my E powered Deltie Thunder for HQSM 43. This was going to be my first E powered flight and I was anxious about the outcome.

Some of the highlights of the launch from this weekend was the r/c plane duel between Kevin Johnson and Rob Edmonds in which Rob lost a wing from his plane. In a scary incident as Rob was preparing to land one of his R/C planes a young Rocketeer stepped in front of the plane and was hit. The Rocketeer was fine but Rob's plane wasn't

The TARC team that came out to test appeared to have some very good test results. This year's TARC rules are the toughest I have ever seen and will require the teams to spend a lot of time on the range before their qualifying flights in March and April.

The qualifying flight of Maria Ha's kit bash rocket was interesting. While the flight didn't end the way she would have wanted it, the kit bash was a very neat design and showed a lot of originality. Tom Ha was also there to fly his kit bash but I think he flew it before I got to the range and he had to try to retrieve it.

For HQSM 43 the B egg loft competition was quite close between Jim Filler and Bill Harvey with Jim winning the event by one second. What was interesting was that there were no eggs broken in this event. On the E Boost Glide, Rob Edmonds had a very good flight with his R/C Glider and took first. In something of a surprise your humble editor placed second with his Deltie Thunder. The winner of the HQSM Meet was Jim Filler with 524 points. Rob Edmonds came in second with 460 points. I took third with 412 Points. What I enjoyed most about the contest was watching the E powered boost gliders launch from the rod.

Chris Kidwell was doing some streamer testing for his upcoming FAI International Competition. While timing the streamer was amusing, I am sure Chris was able to get some good data for preparing his rockets for Competition next year. It was also Chris's birthday and Maria Ha bought out a yummy birthday cake.

So the Casualties from the November Sport Launch are as follows:

1. Jim Filler – One r/c boost glider
2. Rob Edmonds – Two r/c planes
3. Kevin Johnson – One r/c boost glider
4. Maria Ha – One damaged Kit Bash Rocket
5. Chris Kidwell – One Crumpled Big Bertha Body Tube
6. Bradley Grant – One Dead Car Battery



A Flying Saucer clearing the Pad. Photo by Jim Filler


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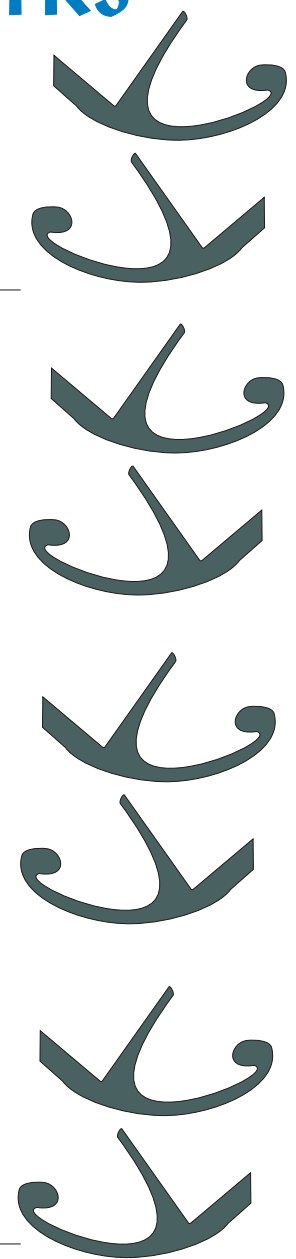
New T-Shirt! Check it out at
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Mention your NARHAMS membership on the online order form for a Special Ludicrous Discount!

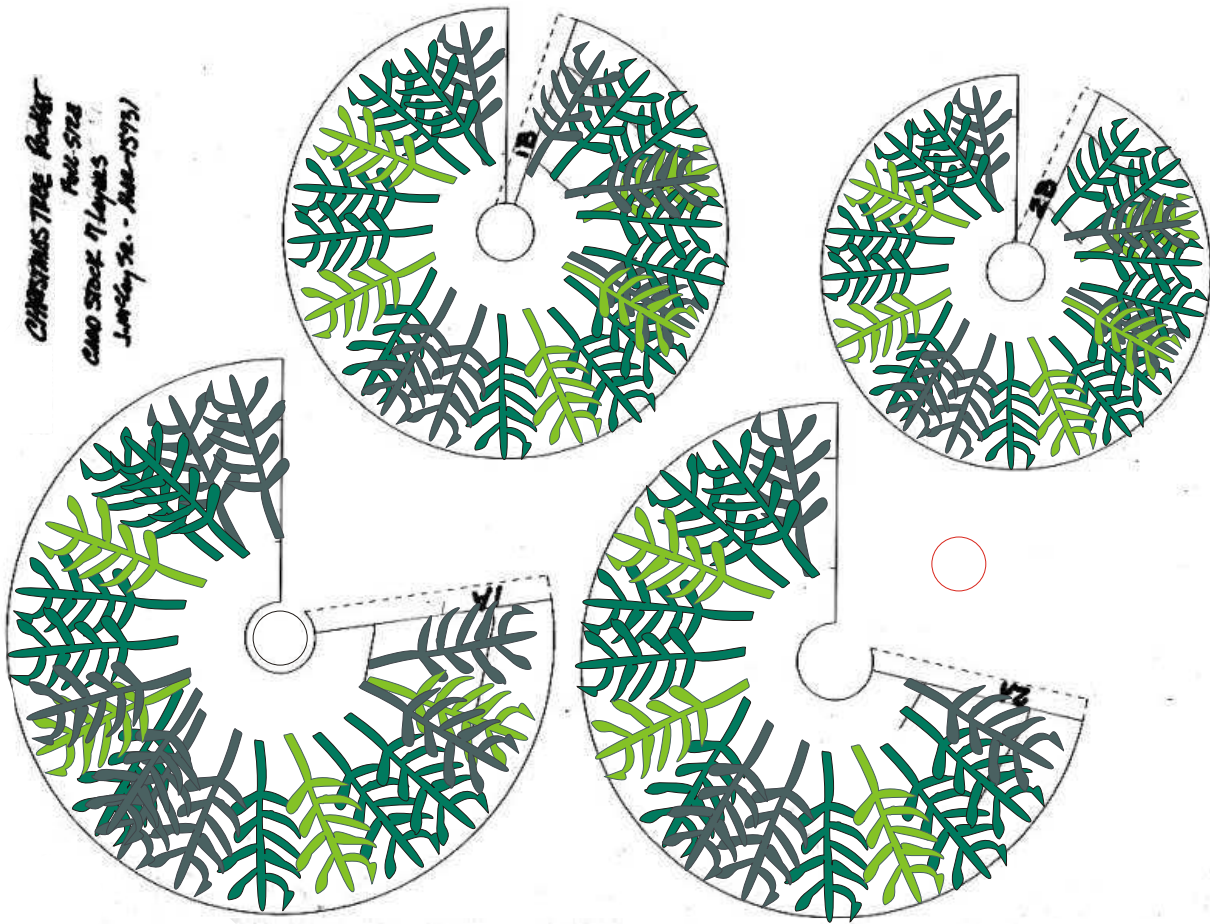
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Drawing Date: Nov. 13, 2002, Model#266 Complete Nov. 24, 2002
Scale: Full Size Pg 1 of 3 E.wt: 9.2g MM-2 motor L.O. Wt: 10.4g

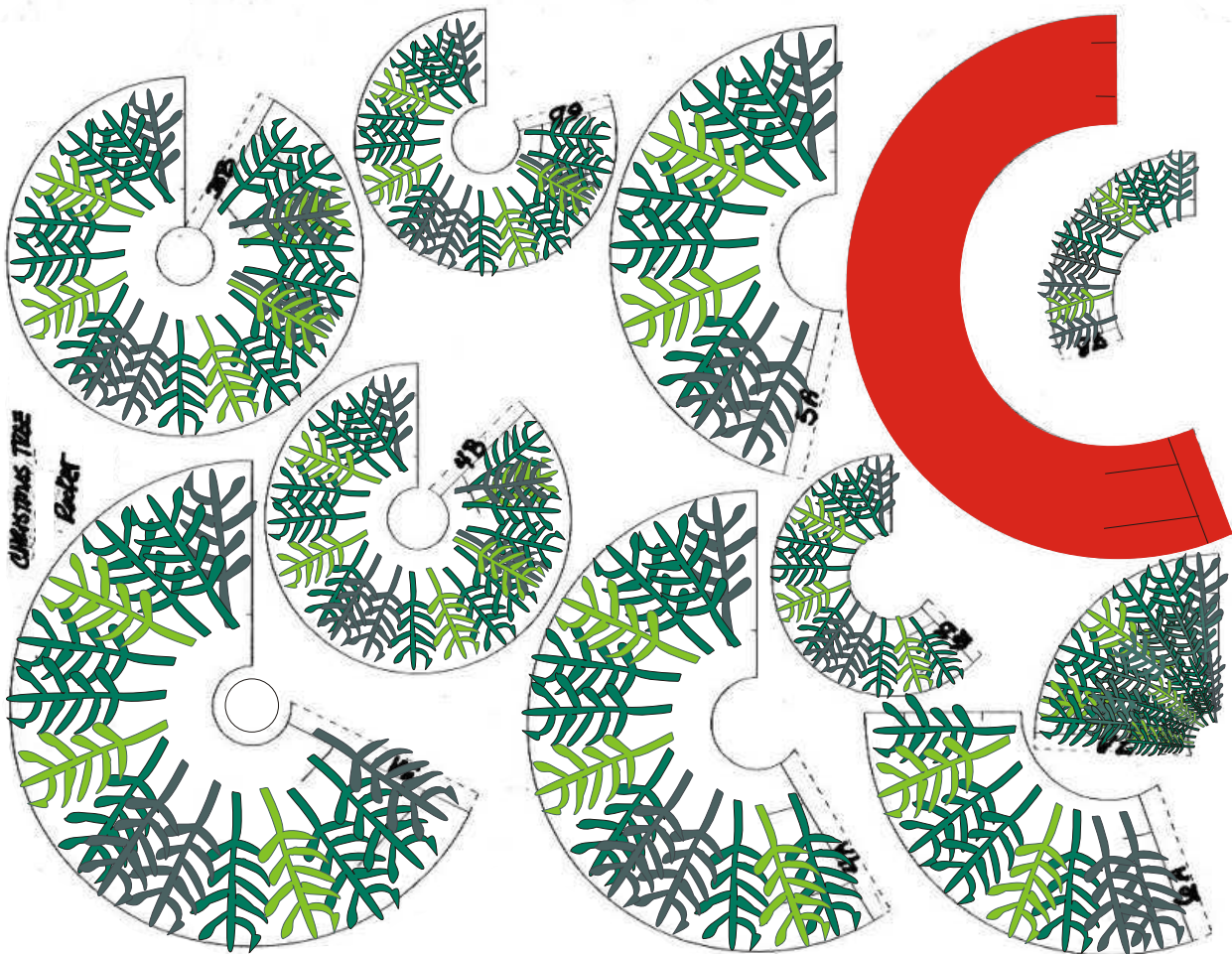
Scale: Full Size Pg 1 of 3 E.wt: 9.2g MM-2 motor L.O. Wt: 10.4g



CHRISTMAS TREE BORDER
Full Size
CAND STOCK 17 Layers
Lined by Se. - Nov-1993



CHRISTMAS TREE
Border







The Zog-43



HQSM 43 Standings

B Egg Lofting Duration

Place	Contestant	NAR Number	Section	Flight 1	Flight 2	Total	NAR Points
C Division							
1	Filler, Jim	27862	139	30		30	340
2	Harvey, Bill	76228	139	29		29	204
3	Grant, Bradley	85261	139	22		22	136
4	Kidwell, Chris	45225	139	16		16	68
5	Johnson, Kevin	77083	139	13		13	34
5	Mankevich, Aex	86018	139	13		13	34

E Boost Glider Duration

Place	Contestant	NAR Number	Section	Flight 1	Flight 2	Total	NAR Points
C Division							
1	Edmonds, Robert	37700	ind	169	169	338	460
2	Grant, Bradley	85261	139	37	59	96	276
3	Filler, Jim	27862	139	DQ	73	73	184
4	Kidwell, Chris	45225	139	31	31	62	92
—	Johnson, Kevin	77083	139	DQ	DQ	0	0

HQSM 43 Meet Champions

Place	Contestant	NAR Number	Section	Total Points
C Division				
1	Filler, Jim	27862	139	524
2	Edmonds, Robert	37700	ind	460
3	Grant, Bradley	85261	139	412
4	Harvey, Bill	76228	139	204
5	Kidwell, Chris	45225	139	160
6	Johnson, Kevin	77083	139	34
6	Mankevich, Aex	86018	139	34

Sections

1	NARHAMS	139	1368
2	IND	0	460



The Zog-43



NASA ASSIGNS CREW FOR FINAL SCHEDULED SPACE SHUTTLE MISSION

WASHINGTON -- NASA has assigned the crew for the last scheduled space shuttle mission, targeted to launch in September 2010. The flight to the International Space Station will carry a pressurized logistics module to the station.

Veteran shuttle commander and retired Air Force Col. Steven W. Lindsey will command the eight-day mission, designated STS-133. Air Force Col. Eric A. Boe will serve as the pilot; it will be his second flight as a shuttle pilot. Mission Specialists are shuttle mission veteran Air Force Col. Benjamin Alvin Drew, Jr., and long-duration spaceflight veterans Michael R. Barratt, Army Col. Timothy L. Kopra and Nicole P. Stott.

Lindsey will be making his fifth shuttle flight. He served as the pilot of STS-87 in 1997 and STS-95 in 1998, and commanded STS-104 in 2001 and STS-121 in 2006. Lindsey was born in Arcadia, Calif., and considers Temple City, Calif., to be his hometown. He has a bachelor's degree from the U.S. Air Force Academy and a master's degree from the Air Force Institute of Technology.

Lindsey currently is chief of the Astronaut Office. Long-duration spaceflight veteran and former space station commander Peggy A. Whitson has been named his successor when Lindsey transitions in October to training for his spaceflight. Whitson was a flight engineer aboard the station during Expedition 5 in 2002 and the commander of Expedition 16 in 2007 to 2008.

Boe will be making his second shuttle flight. He was the pilot of STS-126 in 2008. He was born in Miami and grew up in Atlanta. Boe has a bachelor's degree from the U.S. Air Force Academy and a master's degree from the Georgia Institute of Technology.

Drew flew as a mission specialist on STS-118 in 2007 and is currently the director of Operations at the Gagarin Cosmonaut Training Center in Star City, Russia. He was born in Washington, D.C. Drew has two bachelor's degrees and a master's degree from the U.S. Air Force Academy and a master's degree from Embry Riddle University.

Barratt, a medical doctor, currently is on his first mission, aboard the space station as a flight engineer for Expeditions 19 and 20. He launched to the station on a Russian Soyuz spacecraft March 26 and is due to return to Earth on the same Soyuz Oct. 11. Barratt was born

in Vancouver, Wash., and considers Camas, Wash., his hometown. He has a bachelor's degree from the University of Washington, a master's degree from Wright State University in Dayton, Ohio, and a doctorate of medicine from Northwestern University.

Kopra just completed his first spaceflight, as a flight engineer aboard the space station for Expedition 20. He launched July 15 on shuttle mission STS-127 and landed aboard shuttle mission STS-128 on Sept. 11. Kopra was born in Austin, Texas. He has a bachelor's degree from the U.S. Military Academy, and master's degrees from the Georgia Institute of Technology and the U.S. Army War College.

Stott is in the midst of her first mission as a flight engineer aboard the station with Barratt for Expeditions 20 and 21. She launched aboard STS-128 on Aug. 28 and is due to return at the end of STS-129, targeted for launch Nov. 12. She was born in Albany, N.Y., and considers Clearwater, Fla., her hometown. She has a bachelor's degree from Embry-Riddle Aeronautical University and a master's degree from the University of Central Florida. For complete astronaut biographical information, visit: <http://www.jsc.nasa.gov/Bios>



Dec. 10, 2009 Stephen Cole

Headquarters, Washington 202-358-0918
stephen.e.cole@nasa.gov

MEDIA ADVISORY: M09-232 SCARCE WATER, OUR QUIET SUN AND SPACE ROCKS AMONG NASA NEWS HIGHLIGHTS AT AMERICAN GEOPHYSICAL UNION MEETING WASHINGTON —

NASA researchers will present new findings on a wide range of Earth and space science topics during the 2009 fall meeting of the American Geophysical Union. The meeting takes place Dec. 14-18 at the Moscone Convention Center, 747 Howard St., in San Francisco. News briefings held during the meeting will feature new results on dwindling groundwater supplies in California and other parts of the world, the impact of the current "quiet" solar cycle on Earth's atmosphere, efforts to track near-Earth objects such as comets and asteroids, and satellite views of the global circulation of greenhouse gases. In addition, NASA scientists and their colleagues who use NASA research capabilities will present noteworthy findings during scientific sessions that are open to registered journalists.

For a complete list of NASA-related news briefings at the meeting, visit: <http://www.nasa.gov/topics/earth/agu/index.html>



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2010 Calendar of Events

Date	Time	Event	Location
Dec 19	10 am - 4 pm	Sport Launch, Land Your Lander Fun Event (Dec 26 rain date)	Stick your landing, win a prize (Tom Ha) Mt. Airy, MD
Jan 2	5:30 - 9 pm	Meeting, working with plastics (John McCoy), swap meet	College Park, MD
Jan 3	1 - 2 pm	Goddard Launch	Greenbelt, MD
Jan 16	10 am - 4 pm	Mt. Airy Launch, MicroMaxx theme	Mt. Airy, MD
Feb 6	5:30 - 9 pm	Meeting, camera payloads (Scott Branche, Alex Mankevich)	College Park, MD
Feb 7	1 - 2 pm	Goddard Launch	Greenbelt, MD
Feb 20	10 am - 4 pm	Mt. Airy Launch, Cold War models (green with red star)	Mt. Airy, MD
Mar 6	5:30 - 9 pm	Meeting, contest building (Alex Mitiuriev tentative)	College Park, MD
Mar 7	1 - 2 pm	Goddard Launch	Greenbelt, MD
Mar 20	10 am - 4 pm	Mt. Airy Launch, Local Meet contest	Mt. Airy, MD
Apr 4	1 - 2 pm	Goddard Launch	Greenbelt, MD
Apr 10	5:30 - 9 pm	Meeting, kit bash (Scott Branche)	College Park, MD
Apr 17	10 am - 4 pm	Mt. Airy Launch, Maryland Funny Meet 3	Mt. Airy, MD
Apr 25	12 - 4 pm	Rockville Consortium of Sciences build/fly	Rockville, MD
May 1	5:30 - 9 pm	Meeting, finishing techniques, wet sanding (John McCoy, Jim Filler)	College Park, MD
May 2	1 - 2 pm	Goddard Launch	Greenbelt, MD
May 8	12 - 5 pm	Space Day static display, Maryland Science Center	Baltimore, MD
May 15	7 am - 5 pm	TARC Finals, Great Meadow	The Plains, VA
May 15	12 - 8 pm	Mt. Airy Launch	Mt. Airy, MD
Jun 5	5:30 - 9 pm	Meeting, outside speaker TBD	College Park, MD
Jun 6	1 - 2 pm	Goddard Launch	Greenbelt, MD
Jun 19	12 - 8 pm	Mt. Airy Launch, ECRM Regional Meet	Mt. Airy, MD
Jul 3	5:30 - 9 pm	Meeting, night launch ideas (John McCoy)	College Park, MD
Jul 4	1 - 2 pm	Goddard Launch	Greenbelt, MD
Jul 17	12 - 8 pm	Mt. Airy Launch, demo dress rehearsal, ping pong ball spot landing	Mt. Airy, MD
Jul 18	12 - 4 pm	Goddard Contest	Greenbelt, MD
Aug 1	1 - 2 pm	Goddard Launch	Greenbelt, MD
Aug 14	5:30 - 9 pm	Meeting, NARAM report (various)	College Park, MD
Aug 21	12 - 8 pm	Mt. Airy Launch Mt. Airy, MD Details	
Sep 4	9 am - 5 pm	RAMTEC Regional Meet	Ft. Indiantown Gap, PA
Sep 5	1 - 2 pm	Goddard Launch	Greenbelt, MD
Sep 11	5:30 - 9 pm	Meeting, elections, FAI report (Ed Pearson, Chris Kidwell, Kevin Johnson)	College Park, MD
Sep 18	12 - 9:30 pm	Mt. Airy Launch, Super LeMans timed kit build/fly, night launch	Mt. Airy, MD
Oct 2	5:30 - 9 pm	Meeting, glider building session (Robert Edmonds)	College Park, MD
Oct 3	1 - 2 pm	Goddard Launch	Greenbelt, MD
Oct 16	10 am - 4 pm	Mt. Airy Launch, Oktoberfest	Mt. Airy, MD
Nov 6	5 - 10 pm	Meeting, movie night (Ed Pearson), 2011 planning	College Park, MD
Nov 7	1 - 2 pm	Goddard Launch	Greenbelt, MD
Nov 20	10 am - 4 pm	Mt. Airy Launch, R/C glider day	Mt. Airy, MD
Dec 4	5:30 - 9 pm	Holiday party, Greenbelt Community Church	Greenbelt, MD
Dec 5	1 - 2 pm	Goddard Launch	Greenbelt, MD
Dec 18	10 am - 4 pm	Mt. Airy Launch, holiday oddroc	Mt. Airy, MD



Why am I publishing this pic again? Well because I am the editor and this pic sets the gold standard for Lawn Darts. My Resolution for 2010 is to top this Lawn Dart by yours truly!!!!!!

ZOG - FORTY THREE
3102 Eden Drive
Abingdon, MD 21009

Launch Schedule

SPORT LAUNCH
Old National Pike Park
December 19th

PUBLIC LAUNCH
Goddard Space Flight Center
Visitor's Center
January 3rd, 2010