



MAX-Q



VOLUME 18, NO. 1

SPRING 2005



A
new
generation...

MAX-Q

Volume 17, No. 1
Spring 2005

HARA OFFICERS

President: Chuck Pierce
Vice Pres.: Todd Jurhs
Secretary: Johnnie Paul
Treasurer: Joe Robinson
Tripoli Perfect: Walt Stafford

MAX-Q Editor: Johnnie Paul
HARA Website Master:
Will Hillis

This Issue's contributors: Chuck Pierce, MC2 Johnnie Paul, Vince Hugel, Russ Bruner, Lee Brock and Maria Stafford.

MAX-Q is the official newsletter of the Huntsville Area Rocketry Association (**HARA**), **NAR** section 403 and Tripoli Huntsville.

Membership dues are \$12 per year for individuals, \$20 per year for family and include a subscription to the newsletter. Checks are to be made out to **HARA**.

Articles, photos and news of interest should be sent to:
johnnierkt@bellsouth.net.
Any errors or omissions are probably the fault of the editor and will be corrected in future issues.

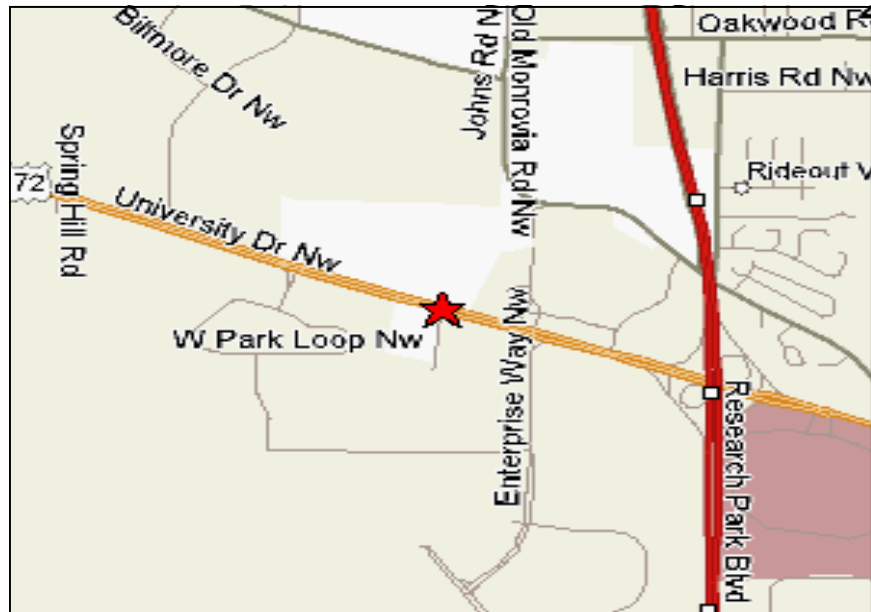
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Cover photos courtesy of Maria Stafford and Johnnie Paul.

HARA 2005 MEETING SCHEDULE

January 13 HARA Meeting (Officer Elections);
February 10;
March 10;
April 14;
May 12;
June 9;
July 14;
August 11;
September 8;
October 13;
November 10;
December 8

MEETING PLACE: Hobby Town USA



(Come early and receive 20% off all rocket purchases before meeting.)

6275 University Drive, Suite 21
Huntsville, AL 35806
(256) 971-5080

(Adjacent to Super Target shopping center, near the Dollar Tree.)

HARA 2005 LAUNCH SCHEDULE

Sat March 12, *hosted by MC2*

Sat April 9, *hosted by HARA*

Sat April 23 - Sun April 24 (**SLI**) *hosted by HARA.*

Sat May 14 - Sun May 15 (**ST2005**) *co-hosted by both sections*

Sat June 4, *hosted by HARA*

Sat July 9, *hosted by MC2*

Sat Aug 6, *hosted by HARA*

Sat Sept 3 *hosted by MC2*

Sat Oct 1 *hosted by HARA*



Currently, the HARA club is without a flying field. MC2 (Music City Missile Club) has been gracious in letting HARA share their flying space. Please let them know how much their generosity is appreciated.



Come fly with us!

When:

MC2 normally flies on the second Saturday of the month from March to November. The range will open at approximately 10:30 AM CT and close at approximately 4:00 PM CT. Please bear in mind that most of us drive down from as far as an hour away so these times may not be precise.

What:

We have a 10,000 and a 14,000 AGL waiver filed for the MC2 field, which is approximately one mile square, 95% unobstructed. Motors 1/4 A thru M are supported.

Where:

Take I-24 to exit 111, US 55 to Manchester/Tullahoma/McMinnville. From the ramp, turn right and cross over the interstate. Turn right on Ragsdale Road, right before the Golden Gallon Market. Follow Ragsdale for 7.2 miles, then turn right on Hickerson Road at the Mountain View Golf Course sign. Follow Hickerson Road for approximately 2.1 miles. As the road takes a right angle, look for the range head setup.

Southern Thunder

2005

May 14th & 15th

The fees will be \$15 for 2 days, \$10 single day; under 12 launch free. Scouts & CAP members launch free if you can provide valid, current membership at Registration.

OVERNIGHT CAMPING IS NOT ALLOWED AT THE LAUNCH FIELD! There are plenty of motels & campgrounds in nearby Manchester, TN; & we hope to have an "official" ST2005 motel where if you mention ST2005, you'll receive a discount.

At ST2005, you can look forward to:

- *One square mile of flat, green, gorgeous obstacle-free turf
- *Ground support for 1/4A - M impulse
- *Hybrid ground support
- *Level 1-2-3 certifications (For L3 we need *plenty* of advance notice!)
- *A 22K window from 10:00 am - noon, both days
- *Night launching! (Last year this was too cool!)
- *Onsite vendors (which we are confirming)
- *Raffles for cool rocket prizes
- *ST2005 T-shirts
- *Port-a-potties

And best of all, launching tons of rockets!
Hope to see you all there!

We are looking for ST2005 volunteers for the following:

- *Launch Control Officer
- *Range Safety Officer (must be certified L2 or L3)
- *Pad Managers
- *Registration (requires two or more volunteers)
- *manning the Rocketburger stand (requires two or more volunteers)

If you choose to volunteer for a 2-hour shift, which you must complete: you launch all weekend for only \$5, and you get seniority when it comes to launch pad assignment. This applies to Saturday & Sunday activities during the launch only; range setup on Friday afternoon & range teardown on Sunday afternoon do not count.

Jason Yount #73202 L2
President, Music City Missile Club
MC2 - Section #589 of the NAR
Nashville Tennessee
<http://www.mc2rocketry.org> (printable directions online)

President's Message (January meeting minutes)

HARA,

We had our 2005 officers elections this evening [January 13, 2005]. Even though I said that I was going to step down as HARA president this year, I nevertheless ended up getting re-elected as club president.

[Here are the results: ed.]

President: Chuck Pierce
Vice President: Todd Jurhs
Treasurer: Joe Robinson
NAR Advisor: Vince Huegele
Secretary: Johnnie Paul
TRA Prefect: Walt Stafford

After much discussion on the work load of the president, we decided to spread out the work load a little better than it has been in past years (which is a big reason that I agreed to stay on as prez for another year). The President will primarily take care of administrative duties (running the club meetings, being the spokesperson for the club, and I'll continue to handle the FAA waiver as needed). The Vice President will have the responsibility of coordinating range duty. When requests come in for launch demos/lectures, the club has promised to volunteer more readily for these; obviously, peak season for launch requests is Space Week which will probably start in late February.

I am happy with this plan. I really got burnt out on rocketry this past year (some of it my

own fault, I have to admit). Being able to shed some of the club duties that I'd accrued to other people will allow me to spend some more time enjoying rocketry and not just making sure that everyone else is having a good time.

Also, Chris Sallis has a line on what sounds like a great high-power/low-power field around Gurley. He's going to ask the landowner if he'd consider letting us use the field for HARA launches. Chris is pretty sure that he will. This is excellent news!

Chuck



HARA Advisor's Column by Vince Huegele

Happy new year from HARA! We're excited to begin 2005 because it is the World Year of Physics (WYP). This year marks the 100th anniversary of Albert Einstein's publication of three important science papers describing theories that have since influenced all of modern physics. It provides the opportunity to celebrate Einstein's revolutionary ideas and the growth of science in the 21st century. <http://www.physics2005.org/aboutwyp.html>

Among the registered events planned for WYP is the annual Team America Rocketry Challenge (TARC) which this year is supported by a new partner, the American Association of Physics Teachers <http://www.aapt.org/>. HARA will mentor local TARC teams and is always willing to support schools for Space Week, science fairs or however rocketry can be applied to inspire students.

HARA is also looking into doing a Bicentennial Launch at the Huntsville Fairgrounds tentatively set for the end of July/beginning of August. Details will be posted as they are available. [Ed. Update]

Have a good 2005 and aim high.

HARA

The **Huntsville Area Rocketry Association**, based in Huntsville, Alabama, home of America's first adventures into space. Founded in 1979 as a section of the National Association of Rocketry (NAR). **HARA** maintains an active launch schedule coupled with an ongoing commitment to rocketry's educational applications.

HARA's website:
[Http://www.hararocketry.org](http://www.hararocketry.org)



Johnnie Paul's un-finished level 3 project

Upcoming Certifications

Ray Cole, Public Enemy 4" Extreme Performer for NAR level 2

Russ Bruner, Vice President of MC2, is planning to certify Level 3 at ST2005 this year. Details so far: The vehicle will be 143" tall, 5.57" in diameter and will fly on a HyperTEK Hybrid.

Johnnie Paul, who thinks he'll be doing something this year but has run out of money already, wants to try to certify Level 3 at ST2007, excuse me, ST2005 with a rocket yet to be built that may be 119" tall and 5.57" in diameter when finally put together outside and supposedly would fly on a HyperTEK Hybrid M960.

Lee Brock, "Still working on L3 paper work, priming and sanding. I should be ready for ST2005." (email post 3/4/05)

Don't forget: 2005 dues are due!