

Newsletter of the Huntsville Area Rocketry Association

Premier Issue!!

MAX-Q

Vol 1; No. 1

February 1987

Serving the Spacemodeling Community of North Alabama

HARA on ASCENT

With 1987 barely a month old, HARA is in full operation. Our first meeting was held in January and plans have been made for the entire year. The initiation of this newsletter adds to the momentum.

The first monthly meeting greeted 16 in attendance. Matt Steele gave a fine presentation on the development and status of high power rocketry. HARA plans to have meetings every third Thursday at 7:30 p.m. at the Alabama Space and Rocket Center Auditorium. Dave Dooling, affiliated with Space Camp and a new HARA member, has generously arranged for this facility. Each time, a special presentation will be given on some aspect of rocketry. February's meeting will discuss boost-gliders. Everyone can participate in the "Show and Tell" portion of every meeting to display their latest handiwork or favorite model. There is much to be learned at our meetings, so come get in on it.

As for launches, at least three NAR (National Association of Rocketry) sanctioned competitions are scheduled. The first will be April 18th followed by events in June and July. The big public HARA-AIAA contest will be October 3d. More on all this later. Sports launches, where you just bring 'em and shoot 'em, will be each third Saturday starting March 21st. The launching site is the Old Airport.

HARA membership now stands at 15. We're hoping to enlist many more rocketeers in the area as well as other NAR members. If you're in NAR, why not go all the way and join HARA too? We are the only local official section tied directly to the NAR. NAR membership gives you the American Spacemodeling subscription and competition qualification, but it is HARA who will hold the competitions. Don't be a lone modeler!!

If you are in HARA but not a NAR member, think seriously about joining the NAR. As mentioned, it will give you an American Spacemodeling subscription, but it will also let you be part of an organization of rocketeers that spans the country. The NAR provides liability insurance for members and as you participate in club contest, both you the modeler, and HARA the club, accumulate points on a national level, competing, not only with

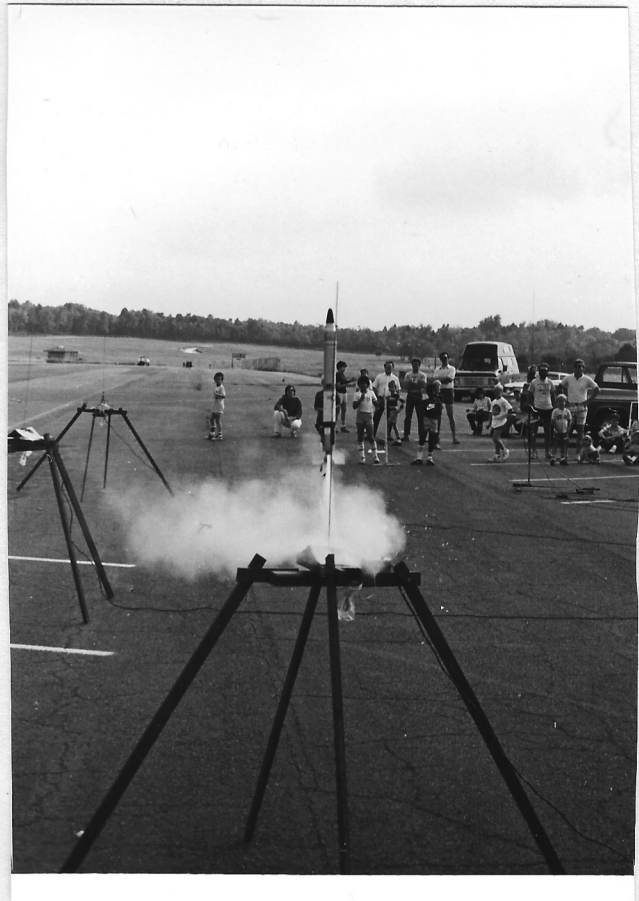
local club members, but also with clubs and modelers across the country. This usually culminates in a National Meet (NARAM) once a year, where modelers from all over get together in a week long competition to vie for trophies in individual events as well as the National Championship. NAR membership is \$11.00 per year and the benefits are many. Ask any of the officers about how to join. You'll be glad you did!!

Join HARA! \$3.00 will get your name on the list, a subscription to the MAX-Q, and the esteem of other modelers.

In the Interest of Equal Time

When his photograph won honorable mention in Estes' MRN cover contest, Vince Huegele was surprised to see his age listed by his name in the credits. "I guess the editors were disappointed I was not in school so they could put my grade down as well," Vince said. "I thought they would have given the information I furnished on my camera technique. But why give my age? To show kids old people do rockets too?"

In the interest of equal time, the ages of MRN editors, Bob Cannon and Mary Roberts will be announced here as soon as the information is available. Although Matt Steele knows them both, he couldn't give numbers on their ages. "The only way to know their age for sure," Matt said, "is to cut them in half and count their rings."



MAX-Q is the official newsletter of HARA, NAR section #403. Articles, photographs, suggestions, comments, etc. are actively solicited from all members for the MAX-Q. Max-Q is edited by Vince Heugele and Robyn Steele and published by Graphic Solutions, 555 Sparkman Dr. Suite 1616, Huntsville, AL. 35816 (205) 830-6645

Countdown

1987 Hara Calendar

FEBRUARY:	19 February	Meeting 7:30 P.M.
MARCH:	19 March	Meeting 7:30 P.M.
	21 March	Sport Launch Predicted Duration- unofficial event
APRIL:	16 April	Meeting 7:30 P.M.
	18 April	Spring Fling '87 NAR Competition (See Events below)
MAY:	21 May	Meeting 7:30
	23 May	Sport Launch Open Spot Landing -unofficial event
JUNE:	6 June	June Jam '87 NAR Competition (See Events below)
	18 June	Meeting 7:30 P.M.
JULY:	11 July	Rocket City Roundup NAR Competition (See Events below)
	16 July	Meeting 7:30 P.M.
AUGUST:	2-7 August	NARAM 29 Anaheim, California
	20 August	Meeting 7:30 P.M.
	22 August	Sport Launch
SEPTEMBER:	7-14 Sept.	7th World Spacemodeling Championships Belgrade, Yugoslavia
	17 Sept.	Meeting 7:30 P.M.
	19 Sept.	Sport Launch
OCTOBER:	3 October	HARA-AIAA Rocket City Classic #6
	15 October	Meeting 7:30 P.M.
	17 October	Sport Launch
NOVEMBER:	19 Nov.	Meeting 7:30 P.M.

April Spring Fling (18 April) Events

- | | | |
|---------------------------|---|--------------------------|
| 1- Predicted Duration | 4- 1/2A Parachute Duration | 7- Open Spot Landing |
| 2- B Streamer Duration | 5- 1/2A Boost Glide | 8- Streamer Spot Landing |
| 3- Parachute Spot Landing | 6- International D Boost Glide (no Flexies) | |

June Jam (6 June) Events

- | | | |
|-----------------------|---|---------------|
| 1- Predicted Duration | 4- 1/2A Parachute Duration | 7- B Altitude |
| 2- 1/2A Boost Glide | 5- International D Boost Glide (no Flexies) | |
| 3- Sport Scale | 6- B International Streamer Duration | |

July Rocket City Roundup (11 July) Events

- | | | |
|-----------------------|--|------------------------|
| 1- Predicted Altitude | 4- International E Boost Glide | 7- B Streamer Duration |
| 2- C Eggloft Altitude | 5- Predicted Duration | 8- 1/2A Boost Glide |
| 3- Drag Race | 6- 1/2A International Parachute Duration | |

***All Meetings will be at the Alabama Space and Rocket Center Auditorium**

****Launch Dates subject to change, however advance notice will be given. Probable launch site- Old Airport**

HARA Members as of January 1987

Dooling, Dave	837-3400
Alabama Space and Rocket Center ,35807	
Halbritter, Mark	883-5299
9016 Cannstatt Dr., 35802	
*Hall, Chuck	883-6369
3120 Andros Dr., 35805	
Hitt, Bill and David	536-4135
1115 Hermitage Ave, 35801	
*Hendricks, Wayne	881-4634
Box 4922, 35815	
* Heugele, Vince	881-2904
1028 Antietam Rd., 35803	
Johnson, Chris	n/a
RT 1 Box 519, Lacey Springs, 35754	
*McCain, Wayne,Dana, John and Scott	536-2241
4209 Nolen Ave., 35801	
Rabb, David	536-9195
2123 Gladstone Dr., 35811	
Reasoner, Colin	n/a
3103 Holly Hill, 35802	
Shulz, Eric	n/a
1013 Riviera Ave., 35802	
*Steele, Matt and Robyn	883-6020
13011 Branscomb Rd., 35803	
*Street, Troy and Jonathan	883-8318
10127 Dunbarton Dr., 35803	

*** Indicates NAR membership**

Know Your Officers

The November election brought these people to power. They will direct HARA for 1987.

President Vince Huegele is a physicist at NASA MSFC. He got his first Estes catalog in 1967, which he still has, and has been flying ever since. To complement rocketry, Vince is also into photography and astronomy, which is good to know when you're trying to take pictures of a comet from the shuttle.

Vice President Matt Steele does rockets professionally at Morton Thiokol. A former national champion in NAR rocketry, he is getting ready to represent the U.S. in the 7th World Spacemodeling Championships in Yugoslavia next fall. Ask him about "Mac", his computer. (There is much more to say about Matt, but we're saving it for blackmail.)

Treasurer Wayne McCain is also employed at Morton Thiokol and has been one of the driving forces in organizing model rocketry in Huntsville. Wayne is into models, computers, ham radio and not telling what else.

Secretary Troy Street works at the Army Strategic Defense Command and fortunately launches only models. He was one of the earliest members in HARA and likes hamming on his radio.

Rocketspeak

New club members may hear in conversations, certain unfamiliar terms. So that everyone can speak the same language, a few bits of common NAR jargon are given here.

Apogee:	peak altitude; highest point in flight.
Auger in:	diving into the ground (see prang).
Cato:	short for "catastrophic failure"; breaking up in flight.
Centuri:	rocket company comparable to Estes; now extinct.
Composite:	high performance engine made of mixed propellants.
Dope:	kind of paint used in modeling.
Flexie:	boost glider with flexible wings made of plastic or mylar.
LDRS:	large and dangerous rocket ships (see NCR).
MAX-Q:	maximum dynamic pressure; greatest forces in flight.
NAR:	National Association of Rocketry
NARAM:	National Association of Rocketry Annual Meet
NCR:	North Coast Rocketry; distributors of composites and LDRS kits; (see Matt Steele).
Prang:	crash.
Zunofark:	A mythical boost glider

We Believe in Clubs for Modelers



HARA

1028 Antietam

Huntsville, Alabama 35803

TO:

V-2..Redstone..Saturn..STS.....

