

# THE BUZZ!



Newsletter of the South Western (Ontario) Association of Rocket Modellers

**SWARM**

## M4 Results

Chris Halinaty, NAR 85414

S.W.A.R.M.'s inaugural Mammoth Model Missile Mash-up was deemed to be a great success by all who attended. There were four competitors: Mike Gallerno, Charlotte Halinaty, Chris Halinaty, and Ron Orr.

First up was a drag race between Charlotte and Mike. Mike's beautiful Broadsword got off the pad nicely but Charlotte's Argent had some trouble. It got stuck on the launch rod and actually burned a hole through the blast deflector with its F16 engine! Mike moved on to round two. The other first round match-up featured Chris vs. Ron. Chris' Estes Mammoth put in a great flight but this time Ron's super long scratch built rocket misfired. Ron was granted another try, and his rocket flew to a very low altitude of approximately 30', making him eligible to move on to the finals.

Mike flew his repaired Broadsword after it saw some damage from its fast during round 1. Ron again flew his long rocket. This time, Mike's entry flew to a much higher 419' but made it off the pad first and had a longer duration. It came down to the missile portion of the contest. Ron's whiffle ball "missile" was much closer to the target than Mike's but it wasn't enough to make up the point differential from the Broadsword's quickness off the pad and duration. That made Mike the winner of S.W.A.R.M.'s inaugural Mammoth Model Missile Mash-up!



Mike Gallerno shows off his mammoth missile, the Broadsword, and his tiny prize, the Bull Pup.

## In this issue...

- M4 Results
- NARTREK Cadet
- The Harvest Classic 2017
- August Launch Photos
- Meeting Minutes: August
- Upcoming S.W.A.R.M. Events
- Rocketry Programme Puzzle
- Last Month's Puzzle Answers
- Mammoth Review Update

## NARTREK Cadet

NARTREK (National Association of Rocketry Training Rocketeers for Experience and Knowledge) is a programme of the NAR to help guide rocketeers in honing their rocketry skills. I have detailed my efforts in obtaining my Bronze and Silver Level achievements in the last two issues of "The Buzz!" and I plan to work on my Gold Level once I get the okay from NARTREK HQ.

The NAR also sponsors the NARTREK Cadet programme. This is similar to the regular version but designed for rocketeers under the age of 18. There are



## Model Rocketry Competition

Saturday and Sunday,  
 October 14-15, 2017  
 8am - 4pm  
 6437 5th Line East,  
 Chatham

Four events will be run as official Harvest Classic 2017 competitions. Points earned in these events will be totaled in each competitive division (A-D) to determine overall champions. Prizes will be awarded for each division in each event and for overall champions. This year's events are:

½ A-engine Parachute Duration	Achieve the highest flight time by making 1 or 2 flights on ½ A-engine rockets. Each rocket must use parachute recovery.
A-engine Streamer Duration	Achieve the highest flight time by making 1 or 2 flights on A-engine rockets. Each rocket must use streamer recovery.
A-engine Helicopter Duration	Achieve the highest flight time by making 1 or 2 flights on A-engine rockets. Each rocket must use helicopter recovery.
Open Spot Landing	Launch any rocket (A-D engine) from an angle no greater than 30 degrees and land closest to a designated spot.

Please note that all NRC events may be flown at The Harvest Classic 2017 with the results being submitted to the National Scoreboard. These include the first 3 events listed above as well as:

- ½ A Boost Glider Duration
- A Payload Altitude
- C Eggloft Altitude.

Only the four official Harvest Classic 2017 events will be counted in determining overall champions and awarding prizes.

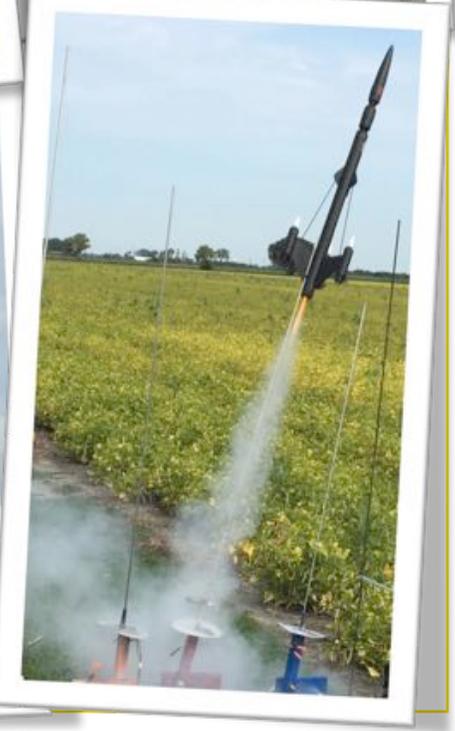
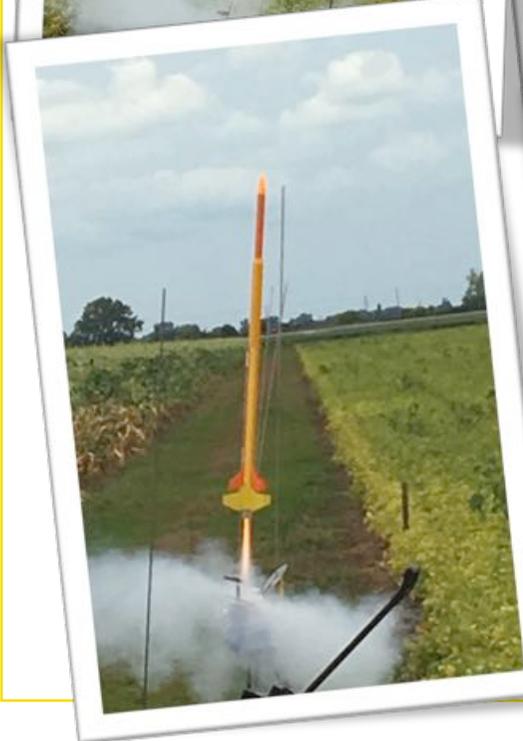
Only NAR members may have their NRC results submitted to the National Scoreboard. See [www.nar.org](http://www.nar.org) for information on joining. If you would like help joining the NAR, just come to the launch and a SWARM member will be pleased to help. You will still be able to compete this year at The Harvest Classic.



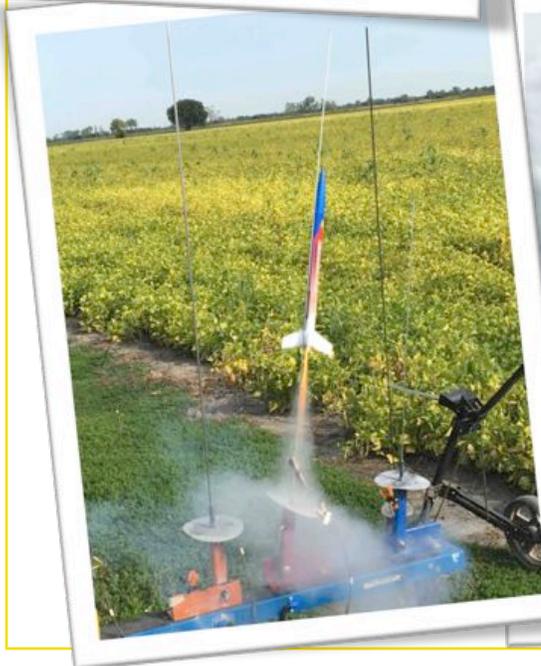
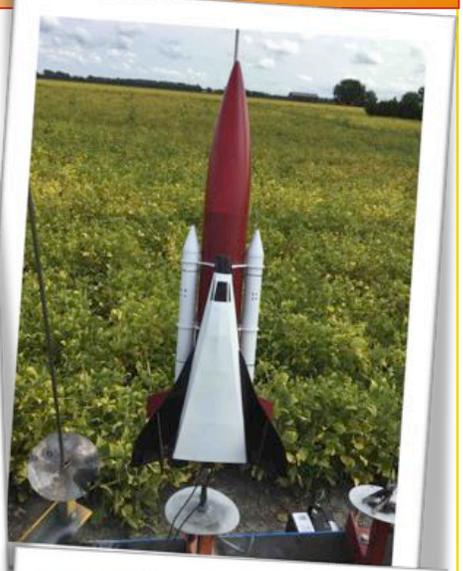
Hot dogs (\$2), pop, and bottled water (\$1 each) will be available on both Saturday and Sunday. Proceeds will help fund future S.W.A.R.M. purchases.

Washroom facilities are available at the field.

# August Launch Photos



# August Launch Photos



# NARTREK Cadet

From  
p.1

four levels instead of three and the challenges are somewhat simpler. The Mercury Level has two requirements: flying a Ready-to-Fly model twice and a model with multi-piece plastic fins twice or building and flying a model with balsa fins twice; and flying a 24" or larger rocket twice. That's it! Once you've made as few as four flights, you can send in

your paperwork along with \$5 US for NAR members or \$7 US for non-members to receive your NARTREK Cadet Mercury certification. In a few weeks, you will receive a certificate, pin, and a few other NARTREK goodies for your efforts. If you think you've got what it takes, you can then move on to the Gemini Level. Details on that in a future issue of "The Buzz!"

## Meeting Minutes: August

Date: Sunday, August 6, 2017  
Attendees: Chris Halinaty, Mark Halinaty, Larry Broadbent, Ron Orr

- Chris announced that "The Buzz!" won "Best New Newsletter" at NARAM-59. Discussion ensued about what content could be featured in upcoming issues:
  - Feature article on NARAM-59 (Mark)
  - HP Level 2 article (Mark)
  - Black Knight scale data/article (Mark)
  - "How to" or "Tips" articles (Larry)
  - Historical articles (Larry)
  - Custom designs
  - Larry okayed putting his items in the "For Sale by Owner: Rocket Stuff" section
- General discussion of NARAM-59. Mark placed fourth in two events.
- Chris brought the MAR (Mini Association of

Rocketry) donation kits for members to work on for our Restoration Shop project.

- Leprechaun and Magnum (Mark)
- Der V-3 (Larry)
- Optima and Range Box (Chris)
- Unnamed missile (Ron)
- Larry brought samples of baffle/shock cord retention devices and thin plywood fins and he was encouraged to write some articles for "The Buzz!" about them.
- M4 is happening next Saturday. Chris, Charlotte, and Larry will be there. Mark and Ron will decide later.
- Mark volunteered to be Contest Director for The Harvest Classic 2017. He will choose events based on NRC events for this year. The date for this event was backed up to October 14-15, 2017.
- This year's Saucer S.W.A.R.M. will feature spot landing and craftsmanship events using Sputnik models. Chris will send out details soon.
- Mark showed everyone his NARAM scale entry, "The Black Knight," and his Level 2 Door Knob rocket (7.5" in diameter!)

### Upcoming S.W.A.R.M. Events

The Harvest Classic 2017  
Saturday & Sunday  
October 14-15, 2017

Regular Meeting  
Sunday, November 12, 2017

Record Rally  
Sunday, November 19, 2017

Year-end Meeting  
Sunday, December 10, 2017



Photo courtesy of Chris Taylor (www.naramlive.com)

# Rocketry Programme

- 1) The answer to this puzzle is a programme for rocketeers to hone their skills.
- 2) Each letter of the alphabet is represented by a number.
- 3) Solve the puzzle by deciphering which letter goes with which number.
- 4) Go to [www.swarmnar.weebly.com/talk/puzzles](http://www.swarmnar.weebly.com/talk/puzzles) for a hint.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	

16 10 15    22 15 10 17 16 17 16 20    15 6 7 12 19 22 19 19 15 3    26 6 15

19 8 5 19 15 17 19 16 7 19    10 16 18    12 16 6 24 13 19 18 20 19

**Last Month's Puzzle Answers**

1. Body Tube
2. Motor Mount
3. Centering Ring
4. Shock Cord
5. Parachute
6. Fins
7. Launch Lug
8. Engine Hook
9. Motor Block

**The Sum of Its Parts:**

More than four fins and a nosecone.

## Mammoth Review Update

The Mammoth that was recently reviewed in "The Buzz!" #12 finally got a chance to fly at the Mammoth Model Missile Mash-up event in August. It performed flawlessly. The flight on an Estes F15-4 was straight up with ejection at apogee. Next up is a flight using the E2X PSII Booster with an F15-0/F15-6 combination! This one will need a nice, calm day, so it may have to wait until spring (or even summer).



S.W.A.R.M. was formed in 2014 and became the first National Association of Rocketry section to be chartered in Canada.

### Board of Directors

Chair and Treasurer:  
Chris Halinaty, NAR 85414

Senior Advisors:  
Mark Halinaty, NAR 82418  
John Brohm, NAR 78048

Senior (21+) Membership—  
1 year \$15 (includes a S.W.A.R.M. patch or pin)  
\$10/year thereafter

Leader (16-20) Membership—  
1 year \$5

Junior (under 16) Membership—  
free

Check out the S.W.A.R.M. website for more details.

[www.swarmnar.weebly.com](http://www.swarmnar.weebly.com)