

2010 Holiday Party1 2011 Officers Jeff Steps Through a Sirius Deimos Build 2-4 2010 MASSY Awards 4 2011 Registration Reminder _____4 2010 MASA Year in Review _____5 2010 Prang Award Winner Announced 5 Ted Painstakingly Indexes 5 Years of the Planet 6-8 MASA Club Roster as of Year End8 Welcomes New Member Joseph Wright 8 Member Spotlight: Meet Buzz _____9 2011 NAR National Events 9 Contributors to this Planet Issue _____9 2011 MASA Club Directory 9 2011 MASA Meeting Schedule ______10 2011 MASA Launch Schedule 10

Meet Your 2011 MASA Club Officers

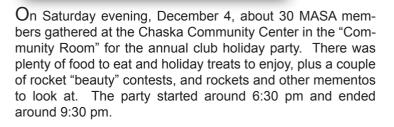
The MASA club leadership team for 2011 has been assembled and is underway planning out activities and club direction for the year.

2011 Club President is **Carol Marple**, returning for a second year as President. Carol currently holds a Level 2 High Power Certification with the NAR. She can be reached via email at masarocketry@rocketmail.com.

2011 Club Vice-President is **Neal Higgins**, returning for a second year as Vice-President. Neal also currently holds a Level 2 High Power Certification with the NAR. He can be reached via email at nthiggins@gmail.com.

2011 Club Secretary/Treasurer is **Gerald Meux Jr.**, fairly new to MASA but an experienced Treasurer from previous rocketry clubs. Gerald currently holds a Level 3 High Power Certification with the NAR. He can be reached via email at kninja250r@yahoo.com.

Please support the leadership team as MASA starts out 2011, our 13th year!!



Austin Whitaker Unwraps a Gift

Thanks to Lyle Merdan for arranging the use of the room, and to everyone who helped with planning, set up, and clean up! Thanks to everyone who attended!

Thanks to Todd Carpenter for again bringing the liquid nitrogen and keeping the crowd entertained! Everyone had a great time freezing marshmallows, graham crackers, flowers, and pennies

Thanks to Jeff Taylor for the MASA holiday greeting cards. Party attendees signed these cards to be sent to various friends of MASA.

The annual MASA gift exchange game was once again a popular activity with nearly all the attendees participating.

Carol - MASA President





Mid Power Kit Review

Sirius Rocketry's Deimos

By Jeff Taylor

The Challenge....

I recently built my first Sirius Rocketry kit, a mid-power Interrogator, and was completely impressed by the unique design, quality of the kit, and all those decals. After that was completed, I was ready to tackle my next challenge... Sirius Rocketry's new **Deimos** kit.

The Kit....

This skill level 2 rocket has an impressive size, measuring 33.1" tall and a body diameter of 2.245". Its distinguishing features are the large reverse-sweeping Fins with mid-fin Pods, as well as the large exhaust nozzle in back. Sirius recommends flights on the following array of black powder and composite motors: D12-3, D15-4, E9-4 (on calm days), E20-4W, E18-4W, F12-5J, F32-4T, F32-6T and F35-5W.

The kit is amazing, but if you have ever built a Sirius kit, I don't need to tell you that. It comes complete with:

- 15.5" Main Body Tube
- 8.5" Upper Body Tube
- · Tube Coupler
- · Balsa Nose Cone
- 15" Motor Mount TUbe
- 24" Parachute
- 4.5" BT20 Pod Tubes (3)
- 6 Balsa Pod Cones
- 1/8" Balsa Sheets (3)
- · 2 Decal Sheets
- 2 Shroud Patterns for Engine Nozzle
- D to E Motor Spacer

• And a host of Miscellaneous parts like Plywood Centering Rings, 3/16" Launch Lug, Motor Hook, Kevlar, Elastic, Nose Cone Dowel Insert, Screw Eye, Thrust Ring, Tube Marking Guide and a 12 Page Instruction Book.

All of the materials in this kit are top notch, and the instruction book is full of easy to understand illustrations at each step, along with several building tips that can be applied to any build.





Starting with the 15½" long Motor Mount Tube, the back end of the Tube was marked in 4 places. The Thrust Ring was glued inside the Tube 3½" from the back by pushing it into location using a spent E casing until ½" of the casing remained. A slot was cut at the 3½" mark and the Motor Hook was inserted into the slot.



TOP-

A couple of plywood Centering Rings were added, as well as a unique Motor Hook Retaining Strap to complete the back end of the Motor Tube. The forward end of the Motor Tube got a plywood Centering Ring and a loop of Kevlar Shock Cord glued to it.

After that dried, the Motor Tube was glued inside the Body Tube, and the Fin and Nozzle Gusset locations were marked using the included Marking Guide.





The Nozzle....

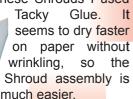
One of the cool features of the Deimos design is the Engine Nozzle on the

back end. This is made with two paper shrouds. The larger Shroud is a transition from the main Body Tube to the Motor Mount Tube. The smaller Nozzle Shroud is a transi-

tion from the Motor Mount Tube to the fourth and final Centering Ring.

The Shrouds are cut from the supplied cardstock pattern, prerolled, then glued into cone shapes. So far during this build. I have used yellow glue, but for these Shrouds I used.

2









Continued on the Next Page...

Deimos Continued

Six Nozzle Gusset pieces were removed from the laser-cut balsa sheet and glued in place over the protruding Motor Tube. After some light sanding for a better fit, the Nozzles were glued in place over the Gussets and remaining Motor Tube. To help hide the seams and joints on the Shrouds and for a cleaner look to the Nozzle. I added a little Elmer's Wood Filler that was slightly watered down then sanded smooth.



The Fins....

Each Fin is comprised of three parts: a Main Fin, a Fin Pod (each with 2 balsa Nose Cones), and a Fin Tip. I used my Standard Rockets Assembly Tool to align and attach the Main Fins to the Body Tube, then added some extra glue fillets for increased strength. The Pods get lines



drawn along their length on opposite sides using another marking guide included in the kit. These lines help you align the Pods to the Main Fins, and the Fin Tips to the Pods. I didn't glue the Nose Cones into the Pods. Instead, I will use tight friction fits so they can be removed if necessary.





The Nose Cone....

A wood dowel was glued into the large Balsa Nose Cone, and an eye screw glued into the dowel. The outer section of the Nose Cone was soaked in CA to give it a little extra strength. The six Pod Cones also got a dose of CA, as well as the inside top portion of the Body Tube.



Finishing....

A coating of watered-down Wood Filler was used to fill in all the body spirals and the Nose Cone and Fin grains, as well as make some smooth fillets and touch up any imperfections.



After that dried. the entire rocket was once again sanded smooth before primer.



I used Rustoleum Painter's Touch Ultra Cover 2X Coverage Primer, and Gloss White and Gloss Black paints on this rocket. The primer sands very well after it is allowed to dry for a few days. Once all of the Primer was sanded smooth, I applied a few light coats of Gloss White. I let this cure for several days before I did some damp-sanding using some 400 grit dipped in water. Then a few more light coats of white. After a few more days of curing, I masked the rocket for the black roll pattern on the Fins. For the edges, I used Tamiya masking tape (yellow), and for the large areas I used Frog Tape (green).





Allowing a few days of curing between each color, I masked off the area to spray the Metallic Gold on the Nozzle and later the Metallic Silver on the Nozzle.





The Decals, Details and Finishing Touches....

There are two small Service Tunnel details made of balsa that get painted white and then glued to the Body Tube after the application of the decals. The three top Fin Pod Nose Cones were painted red-orange, and the three bottom Fin Pod Nose Cones were painted medium gray. The two sheets of colorful and detailed decals were added to the rocket







Continued on the Next Page...





Deimos Concluded

The Flight....

I was fortunate enough to get to fly this rocket twice at the October MASA Launch. Both flights were on Estes D12-3 motors, and both flew spectacularly. Even though this was the smallest motor recommended for the Deimos, there was no hint of it being underpowered. It



took off slow and straight, did a little weather-cocking (there was a slight wind that day), and the ejection was about as perfectly-times as you could ask for from a black powder motor.

Final Thoughts....

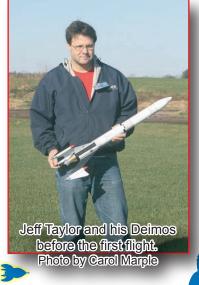
This design is eye-catching right off the bat, whether it's because of the size, the unique Fin design, the obvious roll pattern paint job, or the shiny monster nozzle – something catches your attention. Once you are drawn to it, the many other details start to jump out at you – mainly all those detailed decals.

As with all Sirius Rocketry elite series kits, this one is very well thought out and complete. It is rated as a skill level 2, so it is definitely not a beginner kit, but on the other hand it is not an extremely difficult kit to build. For me, the masking for the black roll pattern seemed to be the most demanding part, although I think there are other options, such as MonoKote or masking/painting smaller portions at a time. At first glance the kit looks somewhat intimidating, but the instruction manual makes a very straight forward process of the step-by-step assembly. Every step is clearly explained with an accompanying illustration. The decals on this kit add a lot to the character of the rocket. They are thin yet very robust, so there should be little worry of tearing any of them.

I am looking forward to the spring flying season so I can launch the Deimos with some more powerful motors like some E or F 24mm reloads.

All in all, I would highly recommend this kit to anyone who has a fair amount of modeling experience, patience, and is looking for an eye-catching and challenging build.

Order your Deimos from www.siriusrocketry.com



2010 MASSY Awards

Presented at the MASA Holiday Party By Carol Marple

Each year at the MASA Holiday Party, MASSY Awards are presented to MASA members for various activities or accomplishments beyond the norm. Congratulations to the following recipients of the 2010 MASSY Awards:

"Pay it Forward Award"

Presented to Mike Erpelding and Buzz McDermott.

Mike single-handedly ran two major outreach events this year, including a launch at the Stearns County Fair and the 2-day Boy Scouts "Star Camp," which celebrated the 100th Anniversary of the Boy Scouts. For this event, Mike built and wired several new multi-rocket launch pads in order to handle the high number of flights. The Scouts built paper pyramid rockets and flew them on Quest B6-2's. Approximately 11,500 Scouts attended the event; of those approximately 700 Scouts built and flew rockets.

Buzz hosted a club build session, plus donated many rocket kits (and rockets) for the NARAM 52 Fly-it / Take-it. In addition, he also handled many outreach builds and launches, often times by himself and on short notice, including one outreach event for a scout group that was planned, coordinated, and done within 3 or 4 days.

"Frequent Flyer Award"

Presented to **Alan Estenson** for having the highest number of flights during 2010, in addition to also taking many shifts as LCO/RSO.

"Longest Distance Traveled to Fly Rockets Award"

Presented to Caleb Boe, Todd Schweim, and Don Boe for their trip to the WSMC in Serbia in August.

Time to Renew MASA Membership for 2011

All 2010 MASA memberships expired on December 31, 2010. All new and returning MASA members will need to complete a 2011 Registration Form and pay their 2011 dues. Dues for returning members and new members for 2011 are:

Individual Membership (18 years and older): \$10.00
Family Membership (up to 4 family members): \$12.00
Individual Junior Membership (17 and younger): \$5.00
Newsletter Option (paper copy mailed to your home): \$6.00
(or you can still access the newsletter online for free)

Register online, by mail, or in person at a launch or meeting. All registration details and forms are at: http://www.masa-rocketry.org/joinmasa.htm

If you have any registration questions, feel free to send an email to: masarocketry@rocketmail.com



MASA Year in Review

By Carol Marple

MASA's 12th Year

2010

10 meetings plus the summer picnic and winter holiday party. Thanks to all the meeting topic presenters! (Caleb Boe, Alan Estenson, Carol Marple, Buzz McDermott, Glen Overby, Dwayne Shmel, Todd Schweim, Jeff Taylor, and the many club members who participated in the "hardware and reload show-n-tell" at the October meeting).

15 club launches in 2010, including a 2-day regional contest: 910+ flights, 1,014+ engines burned, 29,962 N-s of total impulse, nearly \$6,000 worth of engines used! The total number of MASA flights to date is about 11,000!

We had 44 high power flights; that's the most ever in one year!

We had very few scheduled launches that had rocket-friendly weather; luckily, we were nearly always able to reschedule.

MASA donated 50 rockets to NARAM 52 for the "Fly-It / Take-It". Thanks to all who built and donated rockets: Kevin, Hunter, and Levi Anderson; Steve Brown; Todd Carpenter; Mike Erpelding; Alan Estenson; Art and Philip Gibbens; Andy Heren; Neal Higgins; Carol Marple; Buzz McDermott; Bob Moyle; Dwayne Shmel; Jeff Taylor; Mark Thell; David Whitaker

The LAC trophy for best NAR section newsletter was awarded to the MASA Planet for the 3rd consecutive year! Thanks to all the newsletter contributors: Todd Carpenter, Jason Colt, Mike Erpelding, Alan Estenson, Art Gibbens, Neal Higgins, Ken Hoyme, Ken Jarosch, Ray King, Carol Marple, Tim Melody, Glen Overby, Todd Schweim, Alyssa Taylor, Jeff Taylor, and David Whitaker.

We had a large number of members successfully complete their L1 and L2 high power certifications. As a comparison, in the first 10 years of MASA, approximately 25 members completed their L1 or L2 HPR certification. In 2010 alone, we had 12 members complete their L1 and L2 certifications. Level 1 Certifications include: Steve Brown, Art Gibbens, Caleb Griswold, Ken Hoyme, Bob Moyle, and Dave Schaffhausen. Level 2 Certifications include: Caleb Boe, Todd Carpenter, David Gensler, Neal Higgins, Carol Marple, and Dwayne Shmel. Congratulations to all and special Congratulations to Caleb B., Carol and Dwayne for successfully completing their cert flights at NARAM 52.

We received two NAR Safety Grants, totaling approximately \$400. This money was used to purchase additional safety equipment including a "smokechaser," an additional set of speakers, and additional stakes and rope. Some money remains to purchase an updated first aid kit and an air horn.

We supported many outreach events, including long-standing events like Westwood and new events with some boy scout and girl scout troops.



MASA held its second regional contest. Planning is already underway for our 3rd annual regional contest next summer.

At least a few MASA members attended NARCON 2010 on the East coast.

About 10 members traveled to Pueblo, CO for NARAM 52 (and some are already making plans for NARAM 53 in Cincinnati, OH).

Caleb Boe, Todd Schweim, and Don Boe traveled to Serbia to compete in the WSMC.

2010 Prang Awards

Honorable Mention Prangs:

- Ken Jarosch's "SpaceShipEarth" saucer was completely obliterated when a D5-4 motor CATO'ed.
- Lyle Merdan's "Wildman Jr" on a G46 had a motor failure, caught on fire, and didn't leave the pad.
- Ken Hoyme's Leading Edge Rocketry Alien, with 39 separately soldered and epoxied LEDs, on an E20-4W at the Solstice launch. Lawn darted due to really long ejection delay.
- Todd Carpenter's "Steam Boy" on a D24 had a late ejection and lawn darted.
- Mark Thell did loops with his "Colonial Viper" on a C6-3. The comments say "unstable, mistook Bob for a Cylon".
- David Gensler tried for his L2 cert with his Magnum on a J350. Unfortunately, he suffered a motor CATO. The motor tore loose, flew through the rocket, punched into the payload section, and propelled it into the air while the bottom half of the rocket remained on the pad.
- Tim Barr exceeded the speed of balsa when he shredded his SLS Laser-X on a G77.
- Luke Brown launched the big and colorful "Bunny Storm" on 3 D12's. The nose came off, but the chute never appeared and it core sampled.

Prang of the Year Award:

Ken Hoyme's Leading Edge "Rocketry Alien" on an E20-4W. Ken bought this kit shortly before the Solstice Launch, and spent many, many hours soldering and epoxying the 39 individual LEDs that come with this kit. It was an awesome rocket, and we were all excited to see it fly. Ken waited until right after sun down to launch it, to maximize LED visibility. Winds were pretty calm when the button was pressed. It wasn't completely stable off the rod, but it stabilized as it picked up speed. Unfortunately, it made a nice arc over the road and into the field across the street, where it crashed. The nose cone was firmly planted in the body tube, and many of the little parts were completely shattered. We're pretty sure the delay was longer than 4 seconds, and I'm sure it felt more like a 40-second delay to Ken.





For the Good of the Planet

Five-Year Planet Index 2006 thru 2010 - Volumes 9 thru 13

Compiled by Ted Cochran

Note: This index covers the major articles in Volumes 9 through 13 (2006-2010). The index to Volumes 1-5 is in Issue 5.5, the index to Volume 6 is in Issue 6.6, and the index to Volumes 7 & 8 is in Issue 9.1

Certifications

Carol Marple's Level 1	9.5
Caleb Boe's Junior Level 1	9.6
Jeff Taylor's Level 1	
Todd Carpenter's Level 1	
Art Gibbens' Level 1	

Club Activities

2006 Holiday Party Fun	9.1
2007 Holiday Party	11.1
2008 Holiday Party	12.1
2009 Holiday Party	13.1
2007 Summer Picnic	10.1
MASA to host NARCON 2007	9.6
MASA to Host NARCON 2008	10.2
NARCON 2007 Review	10.1
NARCON 2008 Review	11.S
2007 Section of the Year	10.2
MASA celebrates its Tenth Year	11.2
MASA Wins LAC Trophy	
MASA Planet wins LAC Trophy (Again)	
MASA Winds LAC Trophy Thrice!	
MASA's Sky of Gold	
52 by 52 Membership Drive	
Apollo 11 40th Anniv Commemoration	
2010 Regional Launch Announcement	
NARAM-51 FITI Announcement	
2008 Year in Review	
2009 Year in Review	
2010 Officers	
2009 Massy Awards	
Todd & Caleb's WSMC Fund Raiser	
NARAM-52 FITI Rockets	13.5

Competition

Fat Boy duration and beauty rules	11.3
Kimball TARC 2006	9.4
TARC 2008 Finals	11.4
HCA TARC 2008	11.3
HCA TARC 2009	12.3
Apple Valley HS TARC 2009	12.3
Fat Boy Mania	11.4
2010 FAI Team Fly-Off Results	12.5
MASA's First Regional: 2009	12.4
MASA's 2010 Regional Announcement	13.3
2010 Regional Results	13.4

Editor's Note

Thanks for your su	pport	96

Full-Scale

Bound for Pluto	9.2
Atlas 5 Launch	9.3
Delta IV	9.4
Ares I-X Test Flight Preview	12.2
Ares First Stage Ground Test	12.5

Full-Scale (continued)

Ares 1-X Flies	12.6
Space Shuttle & ISS Fly-By	12.6
STS-129 Atlantis Launches	
Space Exploration Day	12.4

Kit Reviews & New Products

Corn Abatement Devices	12.6
Custom Elite Egg Lofter	9.4
Estes Sky of Gold	11.3
Estes Interceptor-E	11.5
Fliskits Rose-A-Roc	11.6
Fliskits Rose-A-Roc (Part 2)	12.1
Leading Edge's Alien	13.4
PML's HAMR Motor Retention System	13.3
QCR Easy Slide III	11.1
Quest Area 51 SPEV Saucer	12.4
Quest Q2G2 vs. AerTech FirstFire Jr	12.4
Quest Future Launch Vehicle	13.5
Quest Planet Probe	13.6
Semroc Saturn IB	11.6
Semroc Sky Hook	9.3
Semroc VF-261	11.6
Sunward's Khufu's Pyramid	10.2
Sunward's Khufu's Pyramid (Flight Rpt)	10.3
Standard Rockets Assembly Tool	
Yank Enterprises Genesis	

Launch Reports

July 2007	10.2
August 2007 (with photos)	10.2
September 2007	10.3
October 2007 (with photos)	
September 2008 (with photos)	11.6
October 2008 (with photos)	11.6
NARCON 2008 Sport Launch	11.S
April 2009	12.4
May 2009	12.4
Solstice Launch 2009	12.4

Meeting Reports

August 2007	10.2
September 2007	10.3
October 2007	10.3
April 2008	11.3
May 2008	11.3
August 2008	11.5
January 2009	12.2
February 2009	12.2
March 2010	13.3
April 2010	13.3

Members' Mentions

Ray King Wins EMRR Design Contest	11.1
Caleb Boe at NARAM-50	11.5
Apollo 7 Commemoration Saturn IB Builds	11.6
Apollo 7 Commemoration Dinner	12.1
Caleb and Ray at NARAM-51	12.5
Neal Higgins' VP Corner	13.2
Jason Colt, Treasurer	13.2
Tim Melody Passes Away	13.6

Flight Reports

Ken's Spirit of America	.13.	2
		_

NAR News

NARCON Town Meeting	1	9.	2

Continued on the Next Page...

Planet Index Continued

Outrea

Outroach			3
Outreach Cub Scout Launch	9.1	Plans: Rockets Conntinued	
TARC Finalists		Alan's Centuri Groove Tube Clone (Part 2)	13 !
TARC Qualifying		Jeff's Steampunked ACME Spitfire	
Launch Fever: 10 Events in 25 Days		Ted's Monkey Pilot Mod	
LMA Diversity Week		Jeff's Honest Goon	
Rocketry in the Chippewa Valley		3011 3 1 1011000 3 3 3 1 1 1 1 1 1 1 1 1	
MN State Fair 4H Aerospace Judging		Plans: GSE	
NARCON 2007 Make It Take It		Art's ASPLAC Launch Controller	11 4
Ben Ericksen Paying Forward		Alan's Stainless Steel Blast Deflectors	
NARAM-50 FITI Announcement		Ted's Pad-Side Continuity Checker	
NARAM-50 FITI Rockets		Alan's Park Flying Kit	
NARAM-51 FITI Announcement		Alan's ModRoc and LMR Launch Pad	13
BSA Troop 477		Glen's Fin Holding Device	
NARCON 2008 MITI		Rick's Stand for 18 & 24mm Rockets	
NAR & MASA Attend NSTA Convention		Alan's Parachute Storage Rack	
MASA Helps Out the Cub Scouts		Alari o Faracriate Otorage Nack	11.3
2008 Stearns County Fair 4-H Launch		President's Column	
2009 Stearns County Fair 4-H Launch		That's What She Said	13 '
2010 Stearns County Fair 4-H Launch		From the President	
Cub Scout Pack 5: St. Ambrose		TIOTH GIOT TOOLGOTT	
NARAM-51's FITI Donations		Road Trips	
Westwood Elementary School 2009		Fun with Egg Lofting NARCON Session	۵ ٬
Star Camp 2010 (BSA Jamboree)		Scale Modeling NARCON Session	
MASA Starts FiTi Program for Guests		Very Large Array and Lowell Observatory	
Men's Retreat		Midwest Rocketry Clubs	
Wich a Netical	13.0	Local Hobby Shops	
Photos (Snapshots, Parting shots)		Baikonur World Championships	
BATFEH	9.6	NARAM-49 (with photos)	
SpaceShipOne		NARAM-50	
Carpenter Family		NARAM-51	
Mark Thell's Estes Autograph		NARCON 2006	
Fat Boy Drag Race		NARCON 2008	
2005 Holiday Party		October Sky Festival 2007 (with photos)	
Darmok et al		NASM Udvar-Hazy Center (with photos)	
Joe Schneider L1		Spirit & Opportunity are 4 Years Old	
Thell's MGD		Command Module 004B at Apollo HS	
Comanche Drag Race		An Evening with Astronaut Digger Carey	
Glen Overby's Nike Smoke		Ar-Man	
Alan's Halloween Rocket		NAR 2009 National Events Announced	
2007 Picnic Photos		NAR 2009 National Events Announced	12.
10th Anniversary Launch Photos		Safety	
Wally Schirra 1923-2007			0
Video Capture of Hybrid Launches		Motor Data New HPR Safety Code	
Hi Def Video Stills: August 2009 Launch		Motor Retention	
NARAM-51			
STS-125		Brush Fires	
NSL 2009		Model Rocketry Safety Report	
		MESS Reports	
April 2009		MASA Rules Reminder	
Westwood Outreach 2006		Who's Job Is It, Anyway?	
2010 Holiday Party		MASA Receives NAR Safety Grant	
Ray King's Love Boat		Field Size	13.0
NARCON 2010			
Freeze Frame: I'm Yellow; AMRAAM		Scale Data/Models/Plans	
NARAM-52	13.6	Ray's Explorer I	12.
Plans: Rockets		Tech: Finishing	
Wasp II: Blast from the Past (1970)		Fleet Finishing	
Andy's 2TH DKR		Steampunk Techniques	13.
Ray's Building the "Neutron"			
Ray's Senior Prank		Tech: Construction	
Jeff's Semroc Centurion "Sleeper"		Going Mobile with Rocket Construction	
Cartoon and Superhero Rockets for Kids		Making Foam Nose Cones	
Ray's Falling With Style (FWS)		Building an Inexpensive Vacuum Former	
Ken's Snowflake Rocket		Baffles I	
Todd's Steam Boy			
Alan's Centuri Groove Tube Clone		Continued on the Next	rage



Planet Index Concluded

	inct mack contra	ucu
Tech: C	Construction Continued	
	Baffles II	11.3
	Baffles III	11.4
	Baffles V	11.5
	B4-2R Rocket Repair	13.3
	Rose-a-Roc Mod	
Tech: C	Other	
	29/120 Reload Spotter's Guide	13.6
	Simple "No Math" Fin Marking Guide	13.6
Recove		
	Inexpensive Rocket Recovery Alarm	
	Spill Holes in Parachutes	12.1
Fun		
	Gum Camera On-Board Video	
	Low-Amperage Igniters for Small Motors	
	BP vs APCP Modroc Motors	13.3
	2006 Certified Motor Table	
	NAR Junior High Power Certification	10.2
Vendo	rs	
	FlisKits Turns Seven	
	Off We Go Rocketry	
	Sirius Rocketry Offers 10% Discount to MASA	13.6
Web Si		
	Rocketry Forum	10.2



TEAM LIFT

Rocketry Forum 2.0 ______12.2



2010 MASA Members

Registrations Received as of December 27

Cheryl Anderson **Hunter Anderson** Kevin Anderson Levi Anderson **Timothy Barr** Corey Bedford Glenn Bedford Kevin Bedford Lilia Bedford Rohn Blake Caleb Boe Daniel Boe Don Boe Joshua Boe Caylin Bowman Cindy Bowman Craig Bowman Alex Brown Luke Brown Steve Brown **Thomas Brown** Allison Carpenter Elliot Carpenter Laura Carpenter **Todd Carpenter** John Clifton Kevin Cochran Seth Cochran Ted Cochran Jason Colt Jim Copple Kaylee Copple Paige Copple **David DeHaut** Ben Ericksen Ethan Erpelding Mike Erpelding Alan Estenson Allison Fliger David Fliger James Fliger Melissa Fliger **Espen Fredrick** Kris Fredrick Kristina Fredrick

Owen Fredrick

David Gensler Art Gibbens Hannah Gibbens Philip Gibbens Renee Gibbens Scott Gleason Caleb Griswold Gideon Griswold Andy Heren **Neal Higgins** Alissa Hoyme Julie Hoyme Ken Hoyme Kirsten Hoyme Ken Jarosch Paul Jarosch **Charles Jerve** Abby Juntunen Andy Juntunen Karen Juntunen Brian Kilberg Don Kilberg Laurie Kilberg Abby King Eric Kina Ray King Sharon King Cathy Komada Jacqueline Komada Jeffery Komada Vanessa Komada **Edward LaCroix** Ellison Lenz Sarah Lenz Stuart Lenz Alex Lundeen Phyllis Lundeen Randy Lundeen Carol Marple **Buzz McDermott Bruce McLeod** Tim Melody Lyle Merdan Gerald Meux Jr

Bob Moyle Lance Murphy Mike Murphy **Scott Murphy** Eric Myers **Heather Myers** Jim Myers **Justine Myers** Julia Nelson Justin Nelson Mark Nelson Nicole Nelson Eric Oakley Glen Overby Nic Rosenau Seamus Rosenau Blake Audra Rudys David Schaffhausen Nancy Schaffhausen Cathy Schwartz Joy Schwartz Larry Schwartz Ryan Schwartz **Todd Schweim Dwayne Shmel** Elizabeth Shmel Richard Shmel Susan Shmel Bryan Sullivan Alyssa Taylor Jeff Taylor McKenna Taylor Mark Thell Cheryl Vatsaas **Christian Vatsaas Ingrid Vatsaas** Rick Vatsaas Charlie Weisman Henry Weisman Joe Weisman Mabel Weisman Aimee Whitaker Austin Whitaker Cindy Whitaker David Whitaker

Joseph Wright

Roster provided by MASA Secretary/Treasurer Jason Colt

David Miller

137 Members!

HELP WANTED

Please help the club function smoothly. Consider showing up early to a launch to help set the range up or staying late to help take the range down. Your help is GREATLY appreciated. Thanks!

MASA Member Spotlight



Name: Gerald Joseph Patrick Michael McDermott, Jr.

Nickname: Buzz

Born in: San Antonio, TX Grew up in: Fort Worth, TX

Currently Resides in: Blaine, MN

Attended: Austin College in Sherman, TX Favorite Subject in High School: Physics Favorite Subject in College: Computer Science

Current Occupation: Software Developer since college

Previous Occupation: Stocker at Neiman Marcus in High School

Occupation Desired as a Child: Astronaut

Marital Status: Married Children: 3 Brothers & Sisters: 3 Other Countries Visited: Canada, Mexico, Belize, Honduras,

Guatemala, US Virgin Islands, Britain, and France

US States Visited: About half of them Dream Vacation: A month in Australia

Favorite TV Show: Currently: Caprica; All time: BSG

Favorite Movie: Almost every sci-fi ever made, even bad ones!

Favorite Musical Artists: Soundgarden and Audioslave Currently Reading: Live Free or Die, John Ringo Favorite Cartoon Character: Wyle E Coyote

Favorite Restaurant: Ruth's Chris

Favorite Spectator Sports: Pro Football and Lacrosse

Sports Played in High School: Track

Four Words Describing Buzz: Very obsessive rocketry enthusiast Historical Person Buzz Would Like to Meet: Albert Einstein Favorite Recreational Activities: Rocketry and Astronomy

Pets: Dog, cat, fish

Human's Most Significant Invention, Endeavor or Accomplish-

ment: Getting humans to the moon and back, safely

Something Very Few People Know About Buzz: I am outgoing and talkative only so people don't find out I am really a very shy and quiet person.

Favorite Superhero: Iron Man

Would Travel into Space if the Opportunity Arose: Yes!!

Other Hobbies Besides Rockets: Astronomy

Involved in Rocketry Since: 1965

Got Started in Rocketry From: Ad in Boys Life magazine when I

was a Cub Scout

Favorite Rockets: Estes free plan #55, Starship Excalibur; Estes

Interceptor; Centuri SSV Scorpion

Currently a Member of: NAR and Tripoli

Current Fleet Size: About 130 already built, well over 200 un-built

kits, and enough parts to build an infinite number more Fleet Size Sacrificed to the Rocket Gods: Over 100

Biggest Advantage to Being a Member of MASA: The people! It's

great to meet and fly with others in the hobby

Has Attended These NAR National Events: NARAM, NSL,

NARCON, TARC Finals

Most Challenging Build so far: Centuri 1/100 Saturn 1B

Next Rocket to Build: Apogee Saturn 1B

Rocket Wish List: 1/100 Space Shuttle with full stack; every

Centuri 'Super' kit



NARCON 2011 March 12 - 13

Seattle, Washington www.narcon.org

National Sport Launch June 10 - 11

Lucerne Valley, California www.nsl2011.org

NARAM 53 July 23 - 29

Lebanon, Ohio

www.naram53.guarkers.net/



> Ted Cochran > Buzz McDermott

> Jason Colt

> Jeff Taylor

Carol Marple

To contribute pictures, stories, build reviews, or just about anything, email to jeff.taylor@mn-rocketry.net

MASA Directory

Established January 1998

Founding President: Russ Durkee

2011 President

Carol Marple - masarocketry@rocketmail.com

2011 Vice President

Neal Higgins - nthiggins@gmail.com

2011 Secretary/Treasurer

Gerald Meux Jr. - kninja250r@yahoo.com

MASA Planet Newsletter Editor

Jeff Taylor - jeff.taylor@mn-rocketry.net

MASA Planet On-Line

www.masa-rocketry.org/planetonline.htm

Club Website

www.masa-rocketry.org

Webmaster

Alan Estenson - estenson@mn-rocketry.net

Club Yahoo Group

http://groups.yahoo.com/group/masarocketry/





2011 Meeting Schedule

Subject to Change

Check MASA Website or Yahoo Group for updates

MASA February Meeting

Thursday, February 3 - 7:00 pm to 9:00 pm

Location: TBD*
Topic: TBD

MASA March Meeting

Thursday, March 3 - 7:00 pm to 9:00 pm

Location: TBD*
Topic: TBD

MASA April Meeting

Thursday, April 7 - 7:00 pm to 9:00 pm

Location: TBD* Topic: TBD

MASA May Meeting

Thursday, May 5 - 7:00 pm to 9:00 pm

Location: TBD*
Topic: TBD

* These meetings will NOT be at the Science Museum of Minnesota due to SMM schedule conflicts

2011 Launch Windows

Subject to Change

Check MASA Website or Yahoo Group for updates

All MASA Launches are "Misfire Alley" (bring your own launch pad and controller)

MASA January Launch

Saturday, January 22 - 10:00 am to 1:00 pm

Location: Sunrise Middle School - White Bear Lake

MASA February Launch

Saturday, February 26 - 10:00 am to 1:00 pm

Location: Sunrise Middle School - White Bear Lake

MASA March Launch

Saturday, March 26 - 10:00 am to 1:00 pm

Location: Elk River VFW

MASA April Launch

Saturday, April 23 - 9:00 am to 3:00 pm

Location: Nowthen

MASA May Launch

Saturday, May 21 - 9:00 am to 4:00 pm

Location: Nowthen

Scheduled dates, times and launch sites are subject to change due to weather and/or field conditions. Check the MASA Web Site or MASA Yahoo Group for up-to-date changes.

ADDRESS SERVICE REQUESTED

MAAA Planet c/o Jeff Taylor 9240 University Ave NW #209 Coon Rapids, MN 55448



