

**From: National Control Line Racing Association
Bill Bischoff 1809 Melody Ln.
Garland, TX 75042**



TO



NCLRA President Bill Bischoff's Girlfriend Kari poses with her Pink Polecat Sport Goodyear entry. Not sure if she's the Pilot or Mechanic. See story inside.

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Torque Roll Issue #143
April 2019

PRESIDENT - Bill Bischoff

2019 NATS registration is now open. Here is the schedule. Despite **multiple** attempts, I could never get AMA to correct the unofficial event schedule. Since you don't need to sign up in advance for unofficial events, I recommend that you don't bother.

Monday 7/15/19: F2C team race, Mouse I
Tuesday 7/16/19: AMA slow rat, AMA Goodyear
Wednesday 7/17/19: Quickie Rat, super slow rat/Fox race
Thursday, 7/18/19: Clown race, sportsman Goodyear

District Rep. elections are held in odd numbered years. Nominations are open until April 30. Current reps may run again, as there are no term limits. Challengers are also welcome (often by the incumbents), so if you want to serve your district, then by all means go for it. Nominees will be listed in the June *Torque Roll*. The Northwest District is currently vacant, and the Southeast will be open as Jim Bradley is stepping down. **Check the NCLRA bylaws at nclra.org for a description of the Rep's duties before nominating yourself or someone else, and if nominating someone else, please get their consent first! Send your nominations to Les Akre.**

NCLRA Hall of Fame nominations are also open until April 30. A full description of the process is on the web site under "NCLRA Awards".

SOUTH CENTRAL - Bill Bischoff

This is where the report of the Presidents' Day contest should be, but there's nothing to report. The weather was cold and windy enough that we all decided not to fly. So it goes... Our Spring Warm Up is scheduled for April 26-28. We will have seven racing events, plus speed, plus a speed limit combat event. We are looking forward to seeing Charlie Johnson from California, and Bob Oge, Tim Stone, and Al Stone from Illinois, along with our locals and not-so-locals. Of course, we'd love to see You, too. Check out the contest flyer in this issue.

MIDWEST - Bob Heywood

The Midwest racing scene has been much too quiet for far too long but that is changing. T. J. Vieira decided to park his R/C helicopters and take up C/L flying. He hooked up with the Dayton Buzzin' Buzzards and started flying sport / stunt planes. Along the way I took the opportunity to talk up the wider world of C/L. The result...T. J. is well along with the build of a Margaret June Sportsman Goodyear. The project is currently in the paint shop.

A couple of long time Buzzard members, Ed Wallace and Jerry Haupt, have also returned to racing on a limited basis. As AMA Seniors in the early 1970's, Ed, Jerry, and the late Tim Zimmer were very strong competitors here in the Midwest and scored impressive wins at the last of the Chicago NATS. Today Ed and Jerry are racing in the Brodak Foxberg event. Ed just put the finishing touches on Goldberg (Brodak) Buster

powered by a Fox 35 Stunt. He also has a Cosmic Wind with a Brodak .25. The Brodak Foxberg event is designed to fit with the culture of the annual Brodak Fly-In and appeal to a wide audience. But, it's still racing and when the flag drops things get serious.



T. J. Vieira has a new Margaret June Sport Goodyear, almost ready for paint.



The Brodak Buster Foxberg entry of Ed Wallace.



Bob Heywood's new "Mongrel" Fox Racer inherited from fellow modeller Eric Williams.

I have a Texas Quickie Rat well on the way. The plane is a tribute to the late Jerry Martin and is based on his Log series of Rat Racers that stretched back into the late 1950's. Most of the Logs were upright, all wood designs but his last one was a sidewinder with a single wheel. Professionally, Jerry was an aeronautical engineer employed at Wright-Patterson AFB. His planes looked very basic, maybe even crude, but his aero knowledge went into the important parts, especially the wing, and they were fast.



Bob Heywood's new Quickie Rat Model on the board. See column for details.

I'm also working with a Fox Racer, The Mongrel, inherited from my partner-in-crime, Eric Williams. The wing uses cut down Corehouse Gotcha 400 foam wing cores skinned with two layers of silkspan adhered with wall paper paste. The finish is water based urethane. It works out pretty well. This particular plane was never raced so I need to get it dialed in.

All for now.

"Fly Low...Fly Fast"

SOUTHWEST - Doug Mayer

SW District Officer: Last month our president Bill Bischoff announced that it "Tis the season for elections". Well, I spoke to Ron Duly and pre-empted the process a bit and volunteered to take the SW district for the next 2 years. Per NCLRA by-laws, this is an open election process and by no means am I attempting to shoe myself into a position. If anyone is willing or interested, please contact Bill and Les and follow the NCLRA election guidelines for 2019. If nobody is knocking down the door, I'm happy to take on this role for the next 2 years. I want to send out a big thanks to Ron Duly, and Dave Hull who both took on this role over the last several years to show support for the SW District.

RACING SCHEDULE: We were a bit tardy in announcing our schedule this year. You should see it published in this newsletter. For several years, the LA speed fliers have been organizing the contests with the AMA and Whittier Narrows Park in El Monte, and we join them on all the sanctions. We typically have contests in Feb, April, June, Sept, Oct, and Dec.

This year we dropped the June contest due to father's day conflicts. The rest of the contests are now posted on the Torque Roll calendar.

WEATHER REPORT: Yes Virginia, there is winter in Southern California. California has been blessed with the "Pineapple Express" this year. A big southerly shift in the jet stream brings the rains and snow to Central and Southern California. This is extremely important to a drought stricken state that has been suffering horrible wildfires for the last several years. The snowpack in the Sierras is currently at 130 percent of normal, and our reservoirs are nearing capacity. Here in Southern California, we have had weeks of rain through January and February. It has been cold enough for a decent snowpack in the local San Bernardino Mountain Range in Los Angeles. This is all good news for the drought and environment, but it can make contests in February a bit tricky.....hmmmmmm.....read on.

CONTEST REPORT – FEBRUARY 17, 2019:

It was definitely a cold Sunday morning for Los Angeles. My son Tristan and I showed up a bit later than usual because we went snowboarding in the local mountains all day Saturday, and we were beat up and tired. We showed up at the field around 9:30 and it was still cold, in the mid 40's. No one was in a big hurry to race, the guys were mostly hanging out and chatting and waiting for the sun to come out and warm things up a bit. It was a clear sunny day (for now) and the sun did warm things up a bit into the 50's.



Tristan flying his Mouse 1 entry.

MOUSE: We started dragging mice onto the circle around 10:00 am. I had a refurbished mouse and a pretty hot motor for Tristan. Read more about my mouse-capades in a separate article in this newsletter. Our good friend Dave Dawson came out to race after a several year hiatus. It was great to see Dave back at the field! He was having questionable success with his mouse because it had sat for so long. Tristan didn't want to race 2 up today because he's only 10 years old and 4'-10" and he's a bit outclassed by our pilot buddy Dave Hull who is a full size adult. We all agreed to run Tristan 1 up to give him a

race time. We went first and were off to a good start until the first pit. I got way too excited and zinged that little mouse outta the pit way too fast.....it torque rolled on the ground and spun around like a top. The wires got all messed up, so we pulled out of the circle. It was Dave's turn next. Halfway thru the first tank the motor picked up. After the first pit, it finished strong and clocked a 3:17. Time for a pilots meeting. We all knew Tristan was running a fast mouse before Dad screwed up the pit, and we all knew that Dave could get a better time because his motor came to life halfway thru the first heat. Dave Hull offered Tristan a fresh set of lines so he could get a second heat time. Since Dave was on the circle, he took his second heat first while Tristan and I set up his mouse with a borrowed set of lines. I'm not quite sure what happened, except that Dave's mouse wouldn't restart in the first pit. At some point, the heat was over, and that old mouse just didn't repeat the first heat time. I think Dave Hull said it was a DNSTNR (Did Not Set the Needle Right). Now it was Tristan's turn for a second heat. I told him, "You just run your race, bring the plane into the pit, and you'll win this thing". That's exactly what we did. Tristan ran out of fuel at 27 laps, and brought the plane right into the pit like a seasoned vet. I had a quick pit, and I knew right away that Tristan would get his first ever win. He pulled thru 50 laps with a 2:50 and his first ever control line racing win of his young career. The guys went nuts!! He got high fives, and hugs from dad, and cheers and laughter. And Ron Duly surprised him with a blue ribbon!!!



Young Tristan celebrating his first win surrounded by his "Entourage".

SCAR GOODYEAR: We had a few new participants at today's race. As previously mentioned, Dave Dawson was back in the circle after many years of being MIA. His race partner Greg Kovach couldn't make it, so Dave pitted for both Dave Hull and Ron Duly in opposite heats. (Boy, do those pilot guys just love it when a pit man comes back to the races!!) Our other new team were local stunt fliers John Wright and his pilot Mike Meadows. John has a Nemesis Sport Goodyear, and he has been coming out to some races on and off for the last few years. This is the first time that I am aware that he brought a new pilot with him. Our first heat was John and Mike, vs Dave Hull and Dave Dawson. The race got off to a rocky start. Dave and Dave got their plane started and the motor took a big fart. The plane almost died and was running on the wheels. Unfortunately, John didn't notice and had the plane up in the air, flipping the prop. His pilot Mike also had the wires up in the air, so Dave did the limbo under the wires, all of a sudden, Dave's motor came to life, but it was too late... Dave and Mike did a big bear hug, and Dave's plane did a weird wing-over and met the earth with a broken wing. That was the end of the first heat. Next heat; John and Mike stayed on the circle and Dave Dawson and Ron Duly came out. The next heat was going OK until the pits. Dave was having problems getting Ron's plane started, and was sitting in the pits for quite a while. Mike's motor died, and he just couldn't whip it all the way back to John, and it ended up right in front of the Dawson/Duly pit. John seemed frustrated, walked over to the plane and pulled it out of the circle, but kept walking to the pits. He simply didn't understand that the race was still going, so we pulled the plug, and called that heat a big double DNF. WEATHER REPORT.....Black clouds, and lots of weird wind was pulling in.... Next Heat: Dave and Ron ran a 1-up with Ron's plane to give him his second heat. Ron said the wind was really choppy. Tristan and I brought his sport Goodyear to the circle and flew 1 heat.



This is the Pits...at Whittier.



Dave Hull's Buster Sport Goodyear with Anhedral inboard wing. Not sure if the critter laying on the wing had anything to do with it, see column for details.

Our needle was rich, but the wind was just howling, and the rain was sprinkling, and we decided that we had better quit while we could. Everyone started packing up rather quickly, and within a few minutes, a full blown rain storm was upon us. I think everyone just got their gear off the field and into their cars in just the nick of time. Everything went well except for the final results. I asked Ron for the contest results at the end of the race, and put them in my back pocket of my blue jeans. Well, guess what? My blue jeans and the contest results went thru the wash, and I destroyed the contest results. **FINAL RESULTS: RON DID FINISH 100 LAPS, NOT SURE OF THE TIME, BUT WE CAN PROMISE IT WAS A "CLEAN RACE"**. (My washing machine ate my homework).

WEATHER: It's a shame the rain and wind pulled in so hard. Tristan didn't get his chance to beat the Adults in Sport Goodyear, and we had enough SSR/FOX racers and Quickie Rats on the field for another 2 events. We could have raced deep into the afternoon, but Mother Nature pulled the plug on us. Our next race is in April, and we are almost guaranteed to have better weather. Until next time....oil your motors....get out you sunblock and get ready for April.

WHERE HAVE ALL THE ASP 15's GONE?

Bill Bischoff

I've noticed that ASP 15's have been unavailable for a while from all the different sources that I know of. Recently, I sent an email to mikegoesflying.com to inquire. If you are not familiar with them, they are the current US importer/distributor of Magnum engines. Magnums are "private label" versions of the ASP engines, and identical other than the name.

I asked them:

"What's the latest on the availability of the XLS 15A?"

I believe someone told me that they were tooling up for a new model, and it would be out in April. I have also heard that the entire factory was being renovated..."

Their reply, which they gave me permission to share, was: "(The) factory is moving and updating some older tooling. Not redesigning, just updating and moving. We are expecting new inventory to begin to be available in May. I do not yet have a production schedule so I don't know what will be available first."

There's the explanation, from someone connected to the source.

CNC CARVED WINGS Bill Bischoff

Here's an alternative to carving wings for your racers and speed planes. Ray Harvey in Australia is offering built, CNC carved wings and stabs.

In Ray's own words **"I can now produce wings and tailplanes that are shaped on a computer numeric controlled (CNC) router and can be any planform and shaped with any section, although I have my favourites. The finish and accuracy of these products has to be seen to be believed."**



High Quality CNC carved wings produced by Ray Harvey in Australia, see text for details.

I recently ordered four Sport Goodyear wings and a Quickie Rat wing, and the quality was first rate. All of these were solid wings for external controls, but Ray also does wings with internal controls. All mine had symmetrical airfoils, and came with templates for the wing cutouts. Plus, they were shipped in a very nice wooden box.

The cost for five wings, shipping, and extra insurance worked out to about \$105 USD per wing. Ray quotes his prices in Australian dollars, so they look more expensive due to the exchange rate. I just let Paypal worry about that part.

For full details, find Ray Harvey on Facebook, or email him at rdharveyaus@gmail.com.

THE PINK POLECAT

Bill Bischoff

I built this Polecat for my girlfriend Kari when she decided she wanted to learn to fly and compete with the guys. Although she wanted it to be pink and have flowers, I think I came up with a color scheme such that I wouldn't be embarrassed to fly it myself. (And who knows, it may come to that someday.)

The plane was built from one of Pat King's PDK kits. It went together fine, and worked perfectly from the very first flight. The balance point is 3/8" behind the LE at the tips. The one place on the plane where I went off script was on the chin scoop. I bent a 1/16" music wire outline to fit around the 1/8" ply scoop, and double glassed the assembly with 2 oz. cloth. It only took two tries to bend the wire properly.



CONTEST CALENDAR

NOTE! Confirm all contest details with Contest Director!

NCLRA cannot be held responsible for errors or omissions! This calendar is compiled from data collected at the NCLRA website nclra.org. and other published sources. Members can log in to NCLRA.org and submit contest details.

NORTHEAST DISTRICT

Middlesex Modelers Of New Jersey 2019 Schedule May 5

Sportsman Clown Racing, Foxberg, Perky, Fox Speed (CD Ernie Evon)

June 2

Sportsman Clown Racing, Foxberg, Perky, Fox Speed (CD Tom Schaefer)

October 13

Sportsman Clown Racing, Foxberg, Perky, Fox Speed (CD Al Ferraro)

South Jersey Aeromodelers 2019 Schedule

April 21

Sportsman Clown Racing, Foxberg, Perky, Fox Speed (CD Phil Valente)

November 3

Sportsman Clown Racing, Foxberg, Perky, Fox Speed (CD Phil Valente)

November 17

Sportsman Clown Racing, Foxberg, Perky, Fox Speed (CD Phil Valente)

NORTH CENTRAL DISTRICT

None

NORTHWEST DISTRICT

April 12-14

Updated! Jim Walker Memorial Spring Tune-Up, Jim Walker Memorial Field, East Delta Park, Portland, Ore.

Racing Friday Only

Friday: Clown, Sportsman Clown, Northwest Sport and Northwest Super Sport Racing.

[Download a flyer](#) with all the details or [email for information](#).

May 24-26

Northwest Control-Line Regionals, Roseburg Regional Airport, Roseburg, Ore.

Friday: Speed, Carrier, Old-Time Stunt, Beginner-Intermediate Precision Aerobatics, 15 Fast Combat.

Saturday: Speed, Carrier, Classic Stunt, Profile Stunt, Scale, high-performance 1/2-A Combat, 80mph Combat.

Sunday: Carrier; Advanced-Expert Precision Aerobatics; AMA Fast Combat, Racing.

Download a [flyer with all the details](#) or [email for information](#).

Download a [discount advance entry form](#) and an [award sponsorship form](#).

Lodging: The Hampton Inn near the flying site is the Regionals host hotel. For a special room rate, book online at the [Regionals hotel registration website](#) or call 1-800-HILTONS and mention the Northwest Regionals. Reserve by May 9 to be assured of the special rate.

June 29

Salem Speed & Racing Tune-Up, Bill Riegel Model Airpark, Salem, Ore., for Racing, Speed and Navy Carrier events. Sponsored by [Western Oregon Control-line Flyers](#). Details tentative. [Email for information](#)

Oct. 5-6

Fall Follies, Bill Riegel Model Airpark, Salem, Ore. Aerobatics, Racing and Combat. Sponsored by [Western Oregon Control-line Flyers](#). Details tentative. [Email for information](#).

MIDWEST DISTRICT

July 14-20

93rd Annual National Aeromodeling Championships
AMA Contest site, Muncie In.

Monday 7/15/19: F2C team race, Mouse I

Tuesday 7/16/19: AMA slow rat, AMA Goodyear

Wednesday 7/17/19: Quickie Rat, super slow rat/Fox race

Thursday, 7/18/19: Clown race, sportsman Goodyear

SOUTHEAST DISTRICT

None

SOUTH CENTRAL DISTRICT

2019 DALLAS RACING CONTEST SCHEDULE

Apr 27, 28

Saturday: Quickie Rat, Super Slow Rat/Fox race, Sportsman Goodyear.

Sunday: Clown race, AMA GY, Mouse I, Fox-Goldberg racing.

June 8

Quickie Rat, SSR/Fox Race, Sport Goodyear, Mouse I, Fox-Goldberg racing. All racing Saturday only.

Aug 31 same events as June 8

Oct 12, 13 same as Apr 28, 29

All events at Dallas Hobby Park. Contact Bill Bischoff for more information (billbisch@hotmail.com)

SOUTHWEST DISTRICT

2019 Whittier Narrows Speed, Combat, & Racing Contest Calendar

1511 Loma Av, Whittier Narrows Park, S. El Monte, Ca, 91733
Coordinates are DEC:+34.042737, RA:-118.070392

Feb 16-17_Lenny Waltemath Speed & Dennis Schauer Racing Memorial, sanction #

All speed events including electric, 301-310 & 334,335 + all NW & NASS Speed classes. Racing Sunday only: mouse 1, SCAR Goodyear, NCLRA Clown, Super Slow Rat/Fox Race and Quickie Rat.

CD & Speed ED: Joe Brownlee h: 714-895-1857 c: 714-393-1940

Racing ED: Ron Duly h: 818-843-1748

Apr 6-7_Bill Nusz Speed and Herb Stockton Racing Memorial, sanction #7164

All speed events including electric, 301-310 & 334,335 + all NW & NASS Speed classes. Racing Sunday only: mouse 1, SCAR Goodyear, NCLRA Clown, Super Slow Rat/Fox Race and Quickie Rat.

CD & Speed ED: Howard Doering h.714-638-4937 c.714-394-5304

Racing ED:

Apr 27-28 – Palmer Stunt (KOTRC) *Carrier and Combat????*

July 15-19 Speed & Racing NATS – Muncie, IN

Sept 7-8_Wayne Trivin Memorial Speed and Racing, sanction #
All speed events including electric, 301-310 & 334,335 + all NW & NASS Speed classes. Racing Sunday only: mouse 1, SCAR Goodyear, NCLRA Clown, Super Slow Rat/Fox Race and Quickie Rat.

CD & Racing ED: Speed ED:

Oct 19-20_Virgil Wilbur Memorial Speed, Combat, and Racing, sanction #7167

All speed events including electric, 301-310 & 334,335 + all NW & NASS Speed classes. Top 20 score MACA Combat: Saturday 80 mph combat, double elimination and HP 1/2a 42 foot lines, single elimination. Sunday F2D fast combat, double elimination, and f2d for cuts, single elimination. Racing Sunday only: mouse 1, SCAR Goodyear, NCLRA Clown, Super Slow Rat/Fox Race and Quickie Rat.

CD & Speed ED: Howard Doering h.714-638-4937 c.714-394-5304

Racing ED:

Combat ED: Don Jensen flyjensen56@verizon.net Cell 909-576-3430

Dec 7-8 TOYS FOR TOTS Speed, Combat and Racing, sanction #
All speed events including electric, 301-310 & 334,335 + all NW & NASS Speed classes., Torquette Speed, Hollow Log Speed. Top 20 score MACA Combat: Saturday 80 mph combat, double elimination and HP 1/2a 42 foot lines, single elimination. Sunday F2D fast combat, double elimination, and f2d for cuts, single elimination. Racing Sunday only: mouse 1, SCAR Goodyear, NCLRA Clown, Super Slow Rat/Fox Race and Quickie Rat, Musciano Log Racing.

Entry fee: 1 new unwrapped toy, approx value \$10-\$20.

CD & Racing ED:

Speed ED:

Combat ED: Don Jensen flyjensen56@verizon.net Cell 909-576-3430

NOTES:

1. **Contact CD or ED to confirm contest dates before traveling long distances.**
2. **All speed events included for AMA, NASS, and Northwest rules.**
3. **All Racing events Sunday only, 313, Quicky rat, NCLRA, super slow rat, NCLRA clown**
4. **Same Racing events each contest**
5. **Clown will be flown on 60' lines per NCLRA NATS rules**
6. **Other Racing events may be flown if two entrants show up ready to race**
7. **All combat is top 20 MACA score eligible. Sat: 80 mph dbl elim & HP 1/2a 42 foot, snl elim. Sunday F2D fast double elim & f2d cuts, single elim.**

DMAA Spring Warm-up
Gene Hempel Memorial
April 26th, 27th & 28th 2019
Control Line Racing, Speed & Combat
Site: Samuell Garland Park

Northwest Highway & Garland Rd. Dallas, Texas
11500 McCree Rd. Dallas TX. 75238
GPS 32.866867, -96.671400
Class AA AMA Sanction # —

Pilots Meeting at 9:30 AM Saturday & Sunday 12:00 noon on Friday

Friday 04-26

Record Ratio Speed
NASS Sport Jet
NASS Perky Speed

Saturday 04-27

Texas Quickie Rat
Super Slow Rat
Sport Goodyear
Air to Air Combat 75mph

Sunday 04-28

Clown
AMA Goodyear
Mouse 1
Goldberg

Speed events all three days. All events are (JSO). Helmets required for racing pit crews & Combat pilots.

Entry Fee: \$15 first event, \$5 each additional event.

Contest Director: Patrick Hempel
For additional info. on event rules.
See Web Site: www.dmaa-1902.org

Sponsored by
Dallas Model Aircraft Association
Fuel and awards provided
By NASS, DMAA & NCLRA
AMA: License & Entry fee required

Racing Event Director: Bill Lee
Combat: Event Director: Lester Haury



SUPPLIERS

BRODAK MANUFACTURING

Everything c/! 100 Park Ave, Carmichaels PA,15320
724-966-2726 email flyin@brodak.com

CS ENGINES AMERICA

113 North Chase Ave., Bartlett, IL 60103
G/Z .049/.061 Engines; sales, service & parts. (Bill Hughes)
e-mail williamhughes4@comcast.net 630-736-6036

DARP

969 Cedar Street Allouez, MI 49805
DARP Speed Pans for classes including
A, B, D, and 21 Sport. (Barry Tippett)
e-mail: Barry@Petrockfarm.com 906-337-4533
www.Petrockfarm.com

JIM DUNKIN

Engine reference books 816-229-9671 dunkin@discovernet.com

ELIMINATOR PROPS

Steve Wilk 3257 Welcome Ave. N. Crystal, MN 55422
763-531-0604 e-mail swilk@cpinternet.com
Online store <http://eliminatorprops.com/store/>

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Custom Fiberglass Performance Props: Moulded tops. Steve
Eichenberger 480-730-0016

GOODYEAR PLANS- DOUG MAYER

Douglas Mayer 5010 W. 123rd Place
Hawthorne, CA 90250
310-463-0525 cell
douglasmayer58@gmail.com

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www.LeeMachineShop.com

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Fuel ready mixed top quality finest ingredients.
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1-785-256-2583. mbsmodelsupply.com

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Full line of quality Glass & Carbon Fiber props for Control
Line Speed & Racing.
Contact Mike Hazel at: 503-859-2905 Day Phone or 503-871-
1057 24 Hour Phone. Email: zzclspeed@aol.com

NELSON COMPETITION ENGINES

121 Pebble Creek Lane, Zelienople, PA 16063
Manufacturer of NELSON Racing Engines and parts, FAI Pans
for F2A & FIC Custom Button Heads, Nelson Glow Plugs, many
other specialty engine items. (Henry Nelson) Phone: (724) 538-
5282 e-mail: nelcomp101@gmail.com

MARC WARWASHANA

Rubber fastfills, vintage Dons' racing wheels.
11577 North Shore Dr.
Whitmore Lake, MI 48189-9124
Phone: 734-449-7355 E-Mail: whellieman@gmail.com

OLD MAGAZINE PLANS & MORE ON CD

Tom Wilk, 301 W. Redwing St., Duluth, MN 55803
Phone: 218-724-0928(hm) E-Mail: tawilk36@cpinternet.com

ZALP ENGINES

Zalp F2C&F2D engines- Bob Whitney
456 Garvey rd sw, Palm Bay FL 32908
f2cracer@aol.com

BISCHOFF'S SPORTSMAN GOODYEAR RACING PARTS

NEW! Sport Goodyear FUEL SHUTOFF	\$20.00
Mounts to the back of ASP/ Magnum engine Specify top/bottom, inboard/outboard pull Includes longer backplate screws.	
ASP/ Magnum 15 VENTURI	\$10.00
1/4" ID, 4mm spraybar, fits 10mm hole	
RSM Supertigre style needle assembly	\$10.00
Aluminum landing gear struts	\$12.00
.090" 2024-T3, drilled & tapped, with screws Edges pre-rounded.	
Wheels and axles	\$6.00
1 1/4" Williams Bros. wheels, 1/4" axles	
1/4" axles w/o wheels	\$2.00
With hardware- requires 1/4" hole in wheels	
1 oz fuel tank per Margaret June plans, or with pinch-off overflow-your choice.	\$20.00
Bellcrank button kit	\$2.00
includes hex buttons, eyelets, screws	
Fuel shutoff trigger wire	\$1.00
per Margaret June article	
8 oz. fuel bottle with fitting	\$10.00
Racing handle, 3" spacing	\$25.00
metal frame, wooden grip, stainless cable (other spacing available by request)	

Shipping: \$7.00 per order including fuel tanks or bottles / \$4.00 per order
without fuel tanks, bottles. I accept paypal or personal checks.
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