

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



TO



Competitors attending the Dallas Spring Warmup 2019 huddle for the “Team Photo”.

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Updated Contest Calendar

Torque Roll Issue #144
June 2019

PRESIDENT - Bill Bischoff

The NATS are fast approaching. One thing that means is District Rep. elections are upon us. The ballot is in the back of this issue.

Speaking of the NATS, let me remind everyone of a few things we decided last year. First, we will no longer be giving two sets of awards in the official events. It seemed that people didn't care enough about the awards to justify the expense. Second, NCLRA Fox race entries will be flown together if possible, otherwise they will be mixed in with the Super Slow Rats. Each event will have its own awards. Third, there will be no Muncie 500 Sport Goodyear event. (Although, I suppose we could go rogue and have an "unofficial" unofficial event if there was sufficient demand.)

Once again, we have sponsors for some of the unofficial events. PDK LLC is sponsoring Super Slow Rat, the Dallas Model Aircraft Association is sponsoring Sportsman Goodyear, and MBS Model Supply is sponsoring Clown Race. We could still use sponsors for Fox Race, and Quickie Rat, so if you'd like to sponsor an event, please contact me. The unofficial events will still have awards for both the pilots and mechanics.

And let's not forget, a big thank you to Ritch's Brew for donating the NATS racing fuel.

The 2019 F2C Team Selection contest will be held on September 14-15 in Dallas. There are supposed to be more than three teams entering, so everyone will have to at least work a little bit to make the team. As the CD, I will have a front row seat for all the action. Steve Wilk is Team Selection Committee Chairman, so contact him at swilk117@yahoo.com if you want to enter.

SOUTHWEST CHAMPIONSHIP RACING SERIES

Ok, that's not really a thing, but it could be. Dallas will be hosting its annual Fall Finale contest October 11-13. In the past, we've welcomed contestants from near and far, including a California contingent last year. Turns out, the Virgil Wilbur contest in SoCal is the following weekend. Kari and I already have our airline tickets, and she should be ready to fly in a race by then. Doug Mayer and I are trying to get lots of people to attend, including some of the other Texas racers and California racers. Perennial Dallas attendee Les Akre from Canada may be coerced/cajoled into attending both events as well. I'm sure Doug will have more to say about this in his district report. For info on the Dallas contest, contact me; for info on the Virgil Wilbur contest, contact Doug.

SOUTH CENTRAL - Bill Bischoff

DALLAS SPRING WARM UP 2019

If you missed this contest, you didn't miss much. Winds were above 15 mph most of the time, punctuated with a few brief periods of light rain. The usual suspects got to fly Quickie Rat on Saturday AM as scheduled, but then the wind picked up more and we went into waiting mode. The combat guys waited it out a while also, but decided they needed to forge ahead. Sunday morning, we continued to be in waiting mode. Finally, around midday, the wind abated a bit and we got to fly Sport Goodyear. We had three teams, with an entry for each person,

giving us two groups of three up races. Everybody got two heats and a final.

In spite of the abbreviated schedule, we still had fun flying the events we were able to get in. There were some competitive times in Sport Goodyear, especially considering it was our first actual racing this year.

The Chicago area team of Stone, and Oge had planned to attend, but Tim Stone found himself in the hospital with pneumonia, so they had to cancel. Tim is already out of the hospital, and we look forward to seeing the guys in October. Doug Mayer was also planning to attend from California but had a family event that took priority. We hope to see him here in October, and then a week later at his home field.

QUICKIE RAT	140	140
1)Bill Lee	6:36.72	pass
2)Bill Bischoff	6:58.20	7:01.65
3)"up" Chuck Barnes	7:38.23	79 laps
4)"ground" Chuck Barnes	70 laps	pass

SPORT GOODYEAR	80	80	160
1)Bill Lee	4:01.28	4:03.81	8:27.53
2)Bill Bischoff	4:04.29	4:26.68	8:36.38
3)Mike Greb	4:05.99	4:10.65	8:41.61
4)Patrick Hempel	4:18.75	4:19.48	8:48.73
5)"up" Chuck Barnes	4:29.34	4:39.63	9:04.94
6)"ground" Chuck Barnes	5:27.62	6:10.06	12:00.25

SOUTHWEST - Doug Mayer

CONTEST REPORT – April 7, 2019: It was a beautiful Sunday morning in Los Angeles. Our rainy season was taking the weekend off, and we were blessed with great weather. We had the usual suspects on board, Ron Duly, Dave Hull, John Wright, Myself and a kid. I brought my older son Mason instead of Tristan to this contest. Tristan had a baseball game, and Mason has missed the last few contests, so it was his turn to get out to the flying field. We also had a part-time participant which is really good because we always manage to have enough folks to pull some racing together. Scott Dinger showed up and had a Sport Goodyear and a Quickie Rat. We all took turns pitting, piloting and timing for each other and got in some good racing.

SCAR Sport Goodyear: We had a decent turnout of 6 entries. My son Mason flew his own heat, 1-up because he has never flown in traffic before. As a matter of fact, he has never even whipped the plane back to the pit. We worked on that this morning during practice, and he had the "ah-ha moment". All of the sudden, he was bringing his plane to the pit every time. He and his brother have been sharing an old plane (EL Bandito, AKA 'ol Beater after the kids are done), anyway, I have always just run a Fox .15 BB which is not a competitive motor, but it has allowed the kids to get established. Today was no different, Mason got a 9:14:59 for 100 laps, but at least he was bringing the plane to the pits. Our biggest problem was that the mileage on a 1 oz tank was no good, so Mason definitely got some pitting practice. After Mason was done, the adults flew their heats. We went round Robin with the

pilots and pit men to give everyone a chance to race. Dave Hull and Scott Dinger put in the best time on Hull's entry. Hull & Duly teamed up for their entries and ran average times..... hey wait?? Did Hull enter (2) airplanes???? Ha ha ha ha....maybe! Wright and Meadows raced as a team, and I asked Mason to fly my Outrageous. He was scared because he has never flown one of my good race planes before. "What if I crash it dad?" he asked. I just said, "You won't crash, don't worry, just go out and have fun." He flew 1-up again to race my plane, and it was undoubtedly the fastest airplane he has ever flown. He skidded on the air scoop a bit, but otherwise flew a fantastic race. Our time was good enough for a second place behind one of Hull's entries??? Hmmmmm?

NCLRA Quickie Rat: Due to the limited number of participants we decided to run a 140 lap final for the only race in quickie. We set up 2 heats with 2-up teams. Hull & Duly against Dinger and Mayer, and then the same match up with our team's other entries. I pitted for Scott and all was going well until our 3rd pit. The rat was actually an old plane from John Bruman, and it was just a bit of a teeter-totter on the wheel, with the inboard wing having a tendency to drop. Somehow, on our last pit, that inboard wing dropped, and the plane torque rolled, got a bit banged up, and Scott had to drop out at 102 laps. Something happened in the other pits, and somehow Duly and Hull got 104 laps, just enough to eek out a win for the first heat. The second heat was more successful for Mayer/Dinger with a full race of 140 laps. Unfortunately, Hull and Duly had to deal with the gremlins and only got 35 laps.



(Top) Dave Hull waiting for the engine to start as Scott Dinger puts in laps. (Bottom) Mason Mayer flying Dads "Outrageous" SCAR Goodyear.

SCAR Sport Goodyear – 100 laps

1. Hull/Dinger 5:06:49 Bonzo/Magnum
2. D. Mayer/ M. Mayer 6:03:89 Outrageous/Magnum
3. Duly/Hull 6:23:07 Lil' Quickie/Magnum
4. Hull/Duly 7:32:72 Lil' Rebel/Magnum
5. Wright/Meadows 7:45:74 Nemesis/OS LA
6. M. Mayer/ D. Mayer 9:14:59 El Bandito/Fox 15 BB

Quickie Rat – 140 lap final

1. Mayer/Dinger 7:31:37
2. Duly/Hull 104 laps
3. Dinger/Mayer 102 laps
4. Hull/Duly 35 laps

RACING SCHEDULE: This year we dropped the June contest due to father's day conflicts. Our next scheduled contest is September 8. This will be a small club meet. Our biggest contest of the year is always the Virgil Wilbur Memorial, held this year on October 19 & 20. For many years racing at the Virgil Wilbur was held on Sat. and Sun., however it has been quite a long time since we ran a 2 day event. The drop off in participation has taken its toll on even our biggest contest. This year is different. Bill Bischoff is coming to town with Kari, and has inspired us to promote the Virgil Wilbur and return it to its full 2 day splendor. I'm gonna unleash the promotion elves now to allow plenty of time for the hype to build. Make your plans, buy some airplane tickets and Join us in Los Angeles for some good weather and some good racing. Also available is a full schedule of Speed and Combat.

2019 Virgil Wilbur Memorial – October 19 & 20 – Racing / Speed / Combat – 2 Days

Schedule: Race the odd-ball events on Saturday, the popular events on Sunday.
 Both days: registration from 8:30-9:00 A.M. for first heats (registration does not close)
 Pilots meeting and heats set up: 9:00 A.M
 Check line lengths, pull test, warm ups.
 Racing starts at 9:15 A.M.
 All races (2 heats permitted) – top 3 go to final, except clown.
 Clown (7-1/2 minute heats) – Top 3 go to 15 minute final.
 SCAR Sport Goodyear will be flown per SCAR Rules. Note; our rules are slightly different than DMAA Goodyear, but a DMAA plane is 100% compliant with no modifications. See rules for clarification.

Saturday:

- Mouse-1
- Clown – 60 foot lines
- Slow rat or AMA Goodyear (for diehards)
- Formula Unlimited for fun (If anyone owns one, beside me!)

Sunday:

SCAR Sport Goodyear (rules published below)
SSR/Fox race, combined
Quickie Rat

I will host a BBQ at my house on Saturday evening, open to everyone. I will have plenty of food, cold beer, and non-alcoholic beverages for everyone. This should be a great way to finish off a good day of racing. There is a hotel a half mile from my house if people would prefer to stay near my house, (and only 3 miles from LAX). Otherwise, you can also stay near Whittier narrows at the Motel 6.

I will host lunch on Sunday at the field so people can race and chill out and not worry about leaving to get lunch. I will bring some coolers of Gatorade and water, chips and sandwiches.

SCAR GOODYEAR RULES – 2012

PURPOSE:

The Purpose of this event is to provide a forum for team racing competition that allows for racing with relatively simple and inexpensive, yet realistic appearing, profile models of actual [racing] aircraft. Kit aircraft such as the Sig Buster and Shoestring meet the intent of this event. Other F1 Designs past and present are allowed. Supporting Documentation may be requested by the Event Director.

Please participate within the basic intent of the rules.

Event Rules:

1. Basic model rules governing 'profile', landing gear, scale accuracy and cheek cowls are as per the AMA Rule Book for the "Scale Racing" event, (including painted canopies, race numbers and AMA numbers) with the following exception:
 - A. Two wheel (two legs) or mono-wheel (single leg) landing gear may be used. Landing gear shall exit the fuselage in a scale-like position.
2. One (1) fluid ounce maximum size fuel tank.
3. Fuel shutoffs allowed.
4. No pressure refueling systems or MFV's are allowed. All refueling shall be performed through a maximum 1/8" inch O.D. tube.
5. Fuel tanks cannot be recessed into the model.
6. All controls (bellcrank, leadouts, pushrod, and control horn) must be externally mounted, although mounting of bellcranks through the fuselage is permitted.
7. Models must be constructed of wood. The use of carbon fiber, glass fiber, Kevlar and the like shall be limited to reinforcement and/or finishing of the model only.

8. Lines shall be 52'-3" +/- 3" from center of handle to the center of the model. Minimum line diameter shall be .014" for solid, or stranded lines.

9. Models and lines shall be pull tested to a loading of 25 pounds prior to competing in an event.

10. Maximum permitted engine displacement is 0.15 cubic inches (2.50cc). Any engine may be used that did not have a listed retail price exceeding \$150 U.S. as of January 31, 2000. Proof of retail pricing lies with the competitor desiring to use a specific engine by presenting evidence showing:

(a) General availability (published advertisements, etc.) at or below the stated limit.

Or

(b) In the case of an older engine, a dated advertisement at or below the stated limit.

11. The SCAR Goodyear event is intended to support the use of both Diesel and Glow engines. Organizing clubs may opt to limit an event to diesel or glow engines only. It is preferred, however, that events held as part of a sanctioned competition, or, events that are open to non-club members, shall allow both diesel and glow engines to compete.

12. Glow engines shall be restricted to a maximum of 10% nitromethane in their fuel. There is no restriction on Diesel fuel.

Organizing clubs may opt to provide both a standard glow and diesel fuel at a race.

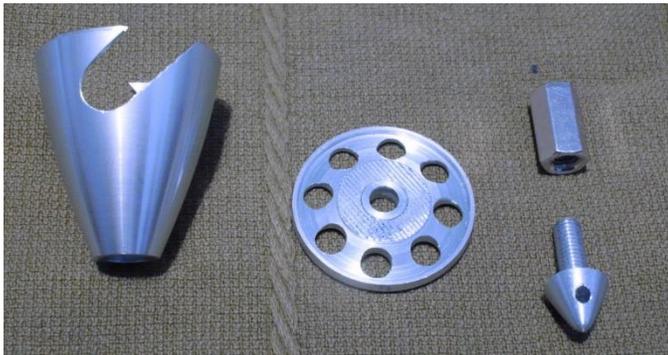
13. Heat and final races shall be flown "three up" whenever possible. The following race format shall be used;

- A. 100 Lap preliminary heat with no mandatory pit stops required. Top three heat times proceed to final.
- B. 200 Lap final. No mandatory pit stops required. Fastest time wins.

BRODAK 1 1/4" SPINNER

Bill Bischoff

Looking for a nice aluminum spinner to dress up your new Goodyear? Brodak sells a 1 1/4" needle nose aluminum spinner (#BH-943) that only weighs 10 grams. (Add 4 grams for the coupling nut) The blade cut outs already fit the APC 6.5x5.0 prop. You will need a coupling nut to hold the nose of the spinner to the crankshaft. As it turns out, the nose screw of the spinner has the same 5MM x0.8 thread as the Magnum and ASP 15. This means all that is needed is a M5 coupling nut, available from McMaster-Carr (#93355A320) for 35 cents. By the way, The Supertigre G15, and the Rossi 15 MkI and II are also 5MM thread. You will need to drill out the backplate to fit. If you don't have metric drills, a #8 size works fine (It also works on props!) The pictures below should be self explanatory.



NORTHEAST DISTRICT

Middlesex Modelers Of New Jersey 2019 Schedule

October 13

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

South Jersey Aeromodelers 2019 Schedule

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

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 Aeromodelling 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

Jun 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 FALL FINALE

Quickie Rat, Super Slow Rat/Fox race, Sportsman Goodyear

Saturday Clown, AMA GY, Mouse I, Fox-Goldberg racing Sunday

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

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:

FOX BELLCRANKS AVAILABLE

Fox bellcranks are now being made and sold by MECOA (mecoa.com). The 2" is part #8678, price \$9.95, and the 3" is part #8679, price \$11.95. I have to admit that I haven't seen or bought any yet, but they are in stock according to the web site. Click on the Fox logo, then click on the numerical parts list to order them, or click on the items in **their** cart to see the listing.

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.

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Saturday:

Mouse-1

Clown – 60 foot lines

Slow rat or AMA Goodyear (for diehards)

Formula Unlimited for fun (If anyone owns one, beside me!)

Sunday:

SCAR Sport Goodyear (rules published below)

SSR/Fox race, combined

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: Contact CD or ED to confirm contest dates before traveling long distances. All speed events included for AMA, NASS, and Northwest rules. All Racing events Sunday only except for Virgil Wilbur which is Sat., Sun., 313, Quickie rat, NCLRA, super slow rat, NCLRA clown. Same Racing events each contest, except 2019 Virgil Wilbur which has added events (see above). Clown will be flown on 60' lines per NCLRA NASS rules. Other Racing events may be flown if two entrants show up ready to race. 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.



Charles Barnes Sr. (AKA Ground Chuck) Warms up the Scale Racer at the wind and rain delayed Dallas Spring Warmup.

NATIONAL RECORDS

SLOW RAT (.25 engine)

Op (70 laps) 3:01.52 Jim Gall/ Les Akre 7/04/11
(140 laps) 6:17.59 Russ Green/ Bill Lee 7/07/09
(no Jr or Sr record)

½ A MOUSE 1

Jr (50 Laps) 2:37.57 Scott Matson 7/15/99
(100 Laps) 5:17.68 Scott Matson 7/17/99
Sr (50 Laps) 2:44.68 Dave Rolley Jr 7/15/99
(100 Laps) 5:20.11 D.J. Parr 7/16/98
Op (50 Laps) 2:12.3 Jim Holland 7/16/04
(100 Laps) 4:22 Ryan & Gibeault 7/15/99

½ A MOUSE 2

Op (70 Laps) 3:01.24 MacCarthy/Kerr 7/11/03
(140 Laps) 6:18.13 Whitney/Hallas 7/10/09

SCALE RACING

Jr (70 Laps) 2:50.65 Bob Fogg III 7/16/91
(140 Laps) 6:08.55 Bob Fogg III 6/23/92
Sr (70 Laps) 3:15.12 Doug Short 7/11/00
(140 Laps) 5:40.05 Bob Fogg III 7/11/95
Op (70 Laps) 2:39.38 Willoughby/Oge 7/15/97
(140 Laps) 5:33.04 Bob Fogg Sr 7/16/91

F2C TEAM RACING

Op (100 Laps) 3:42 Fisher/Wilk 7/13/15
(200 Laps) 6:43.32 Fisher/Wilk 7/16/12

F2CN (NCLRA RULES)

100 Laps 4:14.84 Bill Lee/ Russ Green 7/07/11
200 Laps 8:37:10 Wallick/Brozo 7/15/13

NCLRA 'B' TEAM RACING

Op (35 Laps) 1:24.34 Burke/Duly 7/12/05
(70 Laps) 3:05.73 Green/Lee 7/10/09
(35+70 Laps) 4:33.91 Green/Lee 7/10/09
(140 Laps) 6:08.80 Green/Lee 7/10/09

RAT RACING (.15 RULE)

Op (70 Laps) 2:44.6 Jim Holland 7/15/04
(140 Laps) 5:33.1 Jim Holland 7/15/04
Jr-Sr No record established

NCLRA FOX RACE

Jr (100 Laps) 5:57.11 Scott Matson 7/11/99
Sr (100 Laps) 5:28.09 Scott Matson 7/16/02
Op (100 Laps) 5:32.55 Tim Stone/Bob Oge 7/10/05

NCLRA CLOWN RACE

Op (7 ½ Min.) 150 Laps Bischoff/ Lee 7/15/15
Op (15 Min.) 284 Laps Bischoff/Lee 7/15/15

NCLRA TEXAS QUICKIE RAT

(70 Laps) 2:58:72 Bill Lee/Bill Bischoff 7/18/13
(140 Laps) 6:07.01 John McCollum/Bill Lee 7/14/05

NCLRA SUPER SLOW RAT

(100 Laps) 5:14.30 Bill Lee/Russ Green 7/05/09

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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Australia Tel. 61 2 6553 4548

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Topeka, Kansas 66609
785-266-7714 - Sales@LeeMachineShop.com
www.LeeMachineShop.com

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1-785-256-2583. mbsmodelsupply.com

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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
(Currently out of stock)	
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.
Paypal: billbisch@hotmail.com/ Mail checks to: William Bischoff, 1809
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Torque Roll is the official publication of the NCLRA. Published bi-monthly. All submissions are valuable & will be considered for publication subject to editing. Preferred format for publication is as a MS Word document using 10 point Times New Roman font. Any photos should be sent as a separate jpeg file, medium res. Email all as an attachment to Les Akre at the address given on this page.

NCLRA membership information

Basic membership is free. Simply apply on the web site : <http://www.NCLRA.org/> You will get the Torque Roll newsletter electronically every other month. In addition, you will get voting privileges for whenever a vote by the membership is required.

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District Representative ballot.

Please vote for the District Representative only in district you live in. If you write someone's name in make sure that that person is willing to fulfill the duties of the position before writing their name down

Northeast

Phi Valente _____

Write in _____

Southeast

Write in _____

North Central

Steve Wilk _____

Write in _____

South Central

Bill Bischoff _____

Write in _____

North West

Write in _____

Southwest

Doug Mayer _____

Write in _____

Midwest

Bob Heywood _____

Write in _____

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Ballots must be returned by July 8, 2019 in order to be counted.