

**From: National Control Line Racing Association
Melvin Schuette P. O Box 240
Auburn, KS 66402**



TO



The Sport Goodyear's of (Top) Bill Bischoff "Margaret June", (Middle) Phil Jeansson "Buster", (Bottom) Patrick Hempel "Polecat". All Were Photographed At Dallas Presidents' Day Contest February 14-15.

**Torque Roll Issue #119
April 2015**

PRESIDENT: Melvin Schuette

My Fellow NCLRA Members;

Well my surgery went well, but my to recovery time is longer then I would prefer. It has also prevented me from getting anything done in the shop. The total recovery is reported to be about a year. However I am hoping to be able still make it to some contest this summer.

There are two things about the NCLRA at this time that makes the job of being president difficult. The first is that there is not a lot going on at this time and the most pressing issues we have are, do we adopt the new venturi restrictions on F2CN engines that have been imposed on the engines used in F2C and what type of trophies do we give out at this year's nationals. The second is that there is not a lot going on at this time and the only two pressing issues are do we adopt the 3mm venturi restrictions on F2CN engines that is imposed in F2C, and what type of trophies do we give out at this year's Nationals.

It was decided at the 2014 annual meeting that starting in 2015 the NCLRA will purchase the trophies not provided by the AMA in all official events through third place along with purchasing a second set of trophies for all official events.

I have been in contact with another source of trophies for unofficial events and we can get the same trophies a lower cost than we have been paying through AMA. The NCLRA will also be providing trophies to both the pilot and the pitman in the unofficial events.

I do not object to the money being spent on the trophies for the nationals, but wonder why we spend the money for something that most people take home, put in a box and never look at again. In 2014 the NCLRA actually threw trophies away because we did not have three people in some of the unofficial events. I am not certain what I would prefer to do; as the AMA does provide trophies based on pre-entries or have one set of trophies for the pictures taken at the nationals then order the trophies and send them to the recipients after the nationals. Another alternative is to go to a certificate instead of an actual trophy or plaque. The certificate could be printed on almost any color printer and then placed in a picture frame. If I can remember I will see what I can come up with and present it at the annual meeting.

Melvin

SOUTH WEST: Ron Duly

The next SCAR racing contest is a week away. Scott Dinger, famous in stunt circles for the beautiful mufflers he makes, has been seen out testing a Quickie Rat. Each session his plane gets better. He is looking forward to competing with it. We said good-bye to Jim Holland at the last contest. Jim is on his way (via Florida) back to England. Other than that, all is quiet here.

SOUTH CENTRAL: Bill Bischoff

This month's column will be a collection of odds and ends, so let's jump right in!

Construction Article

I just got off the phone with Jay Smith of Model Aviation. The Margaret June Sportsman Goodyear construction article will be in the June 2015 issue.

F2C Team Trials

As I'm sure will be reported elsewhere, the Dallas Model Aircraft Association will be hosting the 2016 F2C team selection event. The date will be September 19-20. There will **not** be a minimum qualifying performance this time. Assuming we have at least 3 teams competing, we will be sending a full team to Perth in 2016.

F2CN venturi ruling

I've only heard one opinion on this, and that was that the 3mm venturi limit should **not** apply in F2CN. I'd have to agree.

I will coordinate with Melvin so that we can have an official vote by the next newsletter.

Modified Brodak Super Fly

Recently, I built a Brodak Super Fly for SSR. I had some modifications I wanted to try out, namely shortening the span by 5" and adding fixed flaps to retain the wing area. I also changed the look of the tail, and shortened the nose about 1/2". I haven't flown it yet, but it is light at 22.5 oz, and to me anyway, looks much better than stock. By next newsletter I should know how it performs.

Back to the basics

This may already be obvious to everybody but me, but all glow plugs are not created equal! Phil Dunlap and I were bench running some Sport Goodyear engines, and found that one was especially anemic. It turns out it had an idle bar plug in it, no doubt left over from its initial break-in runs. This prompted a series of test runs to check the RPM with different plugs. I won't get into the specifics, because I want you all to test this on your own. I will simply say there is more difference than I expected. Several plugs ran the same, a couple were just slightly down (less than 100 RPM), and some were off the mark by even more.

We also revisited props, and found that a prop that was previously thought to be less than ideal turned out to be best on that particular engine, airframe, and day. We tested a bunch of props, all of which turned more RPM than what we considered the norm. The fastest prop was actually the one that loaded up the engine the most. It appears we may be running the ASP/ Magnum engines beyond the peak in the horsepower curve. The spec's quote HP at 17,000 RPM, and we are running over 20,000! We will be testing some "pitchier" props next to see what gains can be made. Again, do your own testing, and don't be afraid to think outside the box!

Dallas Presidents' Day contest

The fairly light stunt turnout left plenty of time for racing. In spite of that, 3 out of 9 racers ended up dropping out. We flew 3 rounds of qualifying, then took the top 3 times to a Gold final, and the next 3 to a Silver final. This led to some shuffling of team members for the final races. Everybody had plenty of opportunity to race. Stephen Jeansonne flew his modified Sig Buster, and accomplished his goals of finishing races without incident, not interfering with the other pilots, and breaking 5 minutes. By virtue of this, I'd call him the winner!

Thank you to timers Linda Gleason, Sandra Lee, Bob Howard, and all the contestants who pitched in as necessary. For those who missed it, you missed a good 'un!

SPORTSMAN GOODYEAR qualifying

1)Mike Greb	4:05.8
2)Bill Bischoff	4:07.0
3)Patrick Hempel	4:21.3
4)Don Cranfill	4:33.3
5)Dale Gleason	4:46.1
6)Stephen Jeansonne	4:55.7

GOLD final

1)Mike Greb	8:51.4
2)Patrick Hempel	8:58.8
3)Bill Bischoff	9:25.2

SILVER final

1)Don Cranfill	9:28.8
2)Stephen Jeansonne	10:10.0
3)Dale Gleason	128 laps

SOUTHEAST: Jim Bradley

The weather here has been real nice this month. Actually quite warm for this time of year. Several days in the mid 80's already. This hasn't actually lead to more flying but it does make it easier to think about it.

I'm about ready to get started on my "Chico Puro" Sport Goodyear model for the NAT'S this year. It should build quick as I have already figured out how I'm going to build it, with a lot of info from Bill Bischoff and plans from Doug Mayer. Now if there was a good tank available that was ready to use, this would make Sport Goodyear a really good starter racing event.

Sport Goodyear models should be easy to learn how to fly and pit. Airspeed should be in the mid 80 MPH range, and they could also use a different prop and be used a control line trainer. The engine is inexpensive and with some help from an experienced racer I think you could build a complete model for around \$100 to \$120 ready to fly. It wouldn't surprise me if Sport Goodyear wasn't the most popular racing event at the NATS and become the new Fox 35 racing event.

So far there isn't any racing schedule here in the Southeast this spring that I know about. I hope to maybe try for some Saturday practice racing days here in Orlando before the NATS.

Jim Bradley, bmp4carbon@aol.com

Team Trials News: Steve Wilk

March 11, 2015

The 2015 team trials to choose the 2016 F2C World Championship team will be held in Dallas TX on September 19, 2015.

The Dallas Model Aircraft Association is the host club.


The contest location is the DMAA Flying Site - Samuel Garland Park, Dallas TX.

The 2008 & 2014 F2C Team Finals were held at this site and the club supported the activity in an outstanding manner.

If you need to make plans, there is a good set of maps and other information about the location of the flying site and local motels on the DMAA website at <http://www.DMAA-1902.org> under the "Locations" tab on the main page.

If you have any questions, you can contact myself or Steve Wilk, Chairman of the F2C Team Selection Committee.

Colleen Pierce



FAI Coordinator

2016 USA F2C World Championship Team Selection Program

The program described in this document complies with the requirements set forth in the AMA's *World Championship Teams, Procedures Governing the Academy's Sponsorship of FAI Teams for US teams competing in 2016*.

Team Selection Program Overview:

The Team Selection Program (TSP) is a single venue program. There is a single Finals contest to select the team from the participants. All interested parties are invited to participate in the Team Selection Finals to determine the 2016 F2C team membership.

The Team Selection Finals will select the top three teams to represent the United States in the 2016 Control Line World Championships.

Details are contained in the following sections.

Team Selection Program Calendar:

The 2016 Team Selection Program runs from the release of this program description through the conclusion of the Team Selection Finals contest in 2015.

The Team Selection Finals may be scheduled as early as the AMA National Championships in 2015, or as late as November 2015. The Team Selection Committee will announce the date and location for the Team Selection Finals contest by April 1, 2015.

This schedule results in the USA F2C team selection prior to the World Championships host organization publishing their initial participation bulletin.

Specific approach:

Program Entry:

It is strongly encouraged that all interested persons enter the F2C Team selection program. Entry fee is \$20 per person and is payable to:

Competitions Department
Attention: Colleen Pierce.
AMA Headquarters
5161 East Memorial Drive
Muncie, IN 47302

All teams who are participating in the qualification process must be entered in the F2C Team selection program.

Team Selection Finals Contest:

All interested parties are invited to the Team Selection Finals contest. The Team Selection Committee makes the venue selection by April 1, 2015. The contest is expected to be held in the period of September 2015 to October 2015, with the possibility of being held at the AMA National Championships in 2015. This contest is described in greater detail in Appendix A.

Definitions:

Team Selection Committee:

The Team Selection Committee is defined in the AMA's *World Championship Teams, Procedures Governing the Academy's Sponsorship of FAI Teams for US teams competing in 2014 (and beyond)*. The committee has five major responsibilities. The number one responsibility is the program for selecting the World Championship Team and to recommend improvements to the program.

The Team Selection Committee has the responsibility to conduct the Team Selection Program.

Team Selection Finals:

The Team Selection Finals is the last contest in the F2C Team Selection program racing series. The purpose of this contest is to select the top four F2C teams to represent the USA at the World Championships, (three teams that attend, plus an alternate team). This contest is a multiple day contest with each team having the opportunity to race in multiple heats each day.

Appendix A: F2C Team Selection Finals Contest

This section describes the F2C Team Selection Finals contest to the level of detail available prior the actual identification of the contest organizer and the selection of the contest venue.

Contest Scope:

The F2C Team Selection Finals contest is the contest in the F2C Team Selection Program. Its purpose is to make the final selection of the three (3) F2C teams which will represent the USA at the next FAI World Control Line Championships.

Contest Description:

The F2C Team Selection Finals Contest is a two (2) day contest with contestant and equipment processing accomplished the day prior to the start of the contest. The contest consists of six (6) rounds of racing. Three (3) rounds are flown on each day. All races are 100 laps in length. Each team has the opportunity to race in each round.

The structure and organization of the individual rounds is dependent on the total number of participating teams. A team's specific heat within a round and the other teams within a specific heat are determined by a drawing prior to the start of racing on a particular day. The drawing for the first day of racing may be accomplished during the equipment and contestant processing.

Scoring:

A team's score is the average of their three (3) fastest heats. In the case of a tie, the other heats will be used by comparing next fastest heat, and so on until the tie is resolved.

The USA F2C World Championship Team will be comprised of the three (3) teams with the best scores.

Entry:

Eligibility:

Contest entry is limited to AMA members who are members of an F2C team and who will be eligible to represent the USA at the 2016 Control Line World Championships.

Finals Entry:

The entry fee for all teams participating in the Finals will be \$100. Pre-entry is encouraged and may be made by sending payment to AMA at the address listed earlier in this document.

At the Contest:

Entry at the contest is accomplished by paying the entry fees to the contest director. Entries are accepted up to the completion of the equipment and contestant processing.

Refund:

If a pre-entered participant is unable to attend the Finals, a refund will be granted if requested in writing to AMA Headquarters no later than 30 days after the event.

Contest Conduct:

The Team Selection Finals contest is an AMA sanctioned contest for the purpose of selecting the F2C teams which will represent the USA at the next FAI Control Line World Championships. As such, contest organization, administration, and management shall conform to AMA standards and to AMA's "World Championship Teams – Procedures Governing the Academy's Sponsoring of FAI Teams". Aka "The Blue Book".

Event rules will be those which will be in effect for the 2016 CL World Championships. The conduct and oversight of the racing shall conform to the *FAI Sporting Code, Section 4 - Aeromodelling, Volume ABR* and *Section 4 – Aeromodelling - Volume F2 Control Line Model Aircraft* with the following tailoring:

1. Section 4B of the *FAI Sporting Code* "GENERAL RULES FOR INTERNATIONAL CONTESTS" does not apply, except as noted.
2. The following paragraphs from the 2013 *FAI Sporting Code* - Section 4B apply to this contest (quoted for clarity):
 - B.17.1 "The number of model aircraft eligible for entry are as follows
...
Class F3D, F2C, F3B, F3J, F5D, F3F Three (3) only
..."
 - B.17.2 "Any model may only be used by one competitor during a competition."

B.17.3 “The competitor may provide himself with spare propellers and rubber motors, piston motors, electric motors or gas turbines.”

B.17.4 “A competitor may interchange various parts as he wishes provided the resulting model conforms to the rules of the contest and that the parts have been checked before the start of the contest.”

B.17.5 “Repairs are permitted provided that the model still conforms to the requirements of the rules and regulations.”

B.17.12 “Results are subject to the re-checking of the characteristics of the first, second and third place winning models.”

3. Sharing of engines between competitors is not allowed.

4. Section 4C, Volume F2, Paragraph 4.3.10 “Team Qualification and Classification” is replaced by the scoring section of this document.

5. Section 4C, Volume F2, Paragraph 4.3.11 “International Team Classification” is not applicable.

6. Section 4C, Volume F2, Paragraph 4.3.12 “Judges and Timekeepers”

Sub paragraph “a” is replaced by the team race jury section of this document.

Sub paragraphs “b” and “c” are replaced by “Only two time keepers per entrant will be required, three may be used. The average of the watches will be used after applying sound judgment as to the validity of the recorded times.”

7. Section 4C, Volume F2, Paragraph 4.3.13 “Duties of the F2C panel of judges”

Sub paragraph “b” is revised as follows:

was: “Warning and cancellation are notified to each team by means of three coloured lights.”

to: “Warning and cancellation are notified to each team by means of three coloured lights or other effective visual signal.”

Jury:

Team Race Jury:

The Team Race jury will be comprised of three people who are experienced in Team Race competition. The Team Race jury will be selected by the contest organizers in consultation with the F2C Team Selection Chairman.

FAI Jury:

The FAI jury will consist of one appointed member who will have the authority to select two additional members on-site to resolve jury matters. The appointed member is one who is experienced in F2C Team Race competition. The appointed member will be selected by the contest organizer and approved by the AMA FAI Executive Committee.

Event Specific Information:

Contest Director: To Be Determined

Contest Location: To Be Determined

Contest Dates: To Be Determined

Team Race Jury: To Be Determined

FAI Jury: To Be Determined

Contest Budget

Entry fees are intended to support the team members after reasonable amounts have been used to defray the cost of the team selection.

No more than 50% of the entry fees will be used for the costs of the team selection.

All fees collected at the contest are sent in full to AMA. Reimbursement for expenditures will be as outlined below.

Contest Expenses: Reimbursement of expenses for members of the F2C Jury will be limited to mileage at current AMA-defined rates, and motel expenses at one-half double occupancy rate for a maximum of two nights.

All expenses must be approved by the Team Selection chairman. All expenses must be submitted in writing to AMA with receipt for expenditure.

Academy of Model Aeronautics

5161 East Memorial Drive

Muncie, Indiana 47302

(765) 287-1256 – Voice

(765) 289-4248 – Fax

(765) 286-3303 -- Competitions Fax

www.modelaircraft.org

E-mail: cpierce@modelaircraft.org

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

April 12 1/2A combat and SS Combat George Becker.

April 26 1oz. GY Sportsman Clown NCLRA Clown (60ft. lines) SJAM Phil Valente.

May 17 15 Rat Heavy Metal Sportsman Clown Ed Olas

June 7 NCLRA Clown (60ft. lines) Fox race/super slow rat Jim Gall.

Aug 2 Stunt Jim Vigani (possibly at North Branch Park)

Sept 13 Combat as above Paul Brill.

Sept 20 VINTAGE COMBAT FEST at GSCB Tom Schaefer.

Sept 27 Foxberg Heavy Metal .25 Slow Rat SSR/ Fox Race SJAM Phil Valente (George Connors)

Oct 4 Heavy Metal Sportsman Clown .25 Slow Rat Dennis Warchol.

Oct 18 Foxberg Heavy Metal Sportsman Clown Al Ferraro.

Nov 1 Heavy Metal Sportsman Clown FR/ SSR SJAM Phil Valente (Brian Silversmith)

Nov 15 Foxberg NCLRA Clown (60ft. lines) Sportsman Clown Phil Valente.

NORTH CENTRAL DISTRICT

None

NORTHWEST DISTRICT

May 22-23-24

44th **Northwest Control-Line Regionals**, Roseburg Municipal Airport, Roseburg, Ore. The Regionals returns to the site where it was held from 1996 to 2001.

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

Saturday: Speed, Navy Carrier, 1/2-A Combat, 80mp Combat, Classic/Nostalgia 30 Stunt, Profile Stunt, Scale static judging

Sunday: Navy Carrier, Advanced-Expert Precision Aerobatics, AMA Fast Combat, Scale flying, Mouse Race I, Northwest Sport Race, Northwest Super Sport Race, Northwest Clown Race

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

Discount advance forms will be posted here shortly.

Sponsored by the [Northwest Regionals Management Association](#).

MIDWEST DISTRICT

July 13 to 18

89th AMA National Championship

The International Aeromodeling Center (IAC) is located in Muncie, Indiana off Highway 67

SOUTHEAST DISTRICT

None

SOUTH CENTRAL DISTRICT

APR 24-26--Samuell Hobby Park Dallas TX (AA) DMAA Spring Warm-up Site: Samuell Hobby Park. Events: Class I Mouse, Goldberg, Sport Goodyear Texas Quickie Rat, Record Ratio Speed, NASS Sport Jet, NASS Perky Speed, .15 Profile Carrier, Sportsman/Expert Profile Carrier, Class I Carrier, Class II Carrier, Sponsor: DMAA #1802. CD: Patrick Hempel, 304 Becky Ln., Rockwall TX. 75087. Phone: 972-841-8766(day) E-Mail: ptrckhem@aol.com WebSite: www.dmaa-1902.org Speed all three days. Racing on Saturday. Helmets required for racing pit crews. *Carrier contestants may enter sportsman or expert but not both. Contestants may fly for a score in any other NCS recognized events. Scores will be Submitted to NCS for top 20 rankings. Sportsman contestants may use muffler pressure in conjunction with stock mufflers and carburetors. Event director has final decision. Deck set up on Sunday at 10:00AM. Entry Fee: \$15 first event, \$5 each additional event, \$25 maximum.

JUN 20-21--Dallas Hobby Park (AA) Dallas Aero Summer Heat Site: Dallas Hobby Park. Events: Old time stunt, classic stunt, mouse I, Fox/Goldberg, sportsman Goodyear, super slow rat, quickie rat, PAMPA stunt Sponsor: DMAA #1902. CD: Bill Lee, 601 Van Zandt CR 4815, Chandler TX 75758. Phone: 903-288-6029(other) E-Mail:

Bill@WRLee.com WebSite: dmaa-1902.org All racing on Saturday. Old time/classic stunt Saturday, PAMPA stunt Sunday

SEP 05-06--Dallas Hobby Park (AA) Charles Ash Memorial Site: Dallas Hobby Park. Events: Old time stunt, classic stunt, mouse I, Fox/Goldberg, sportsman Goodyear, super slow rat, quickie rat, PAMPA stunt Sponsor: DMAA #1902. CD: Mike Greb, 724 Pauls Ln, Sulphur Springs TX 75482. Phone: 903-438-9883(eve) E-Mail: mgrebb@yahoo.com WebSite: dmaa-1902.org All racing on Saturday. Old time/classic stunt Saturday, PAMPA stunt Sunday

OCT 09-11--Dallas Hobby Park (AA) Fall Finale Site: Dallas Hobby Park. Events: Record ratio speed, sport jet speed, Perky speed, mouse I, Fox/Goldberg, sportsman Goodyear, super slow rat, quickie rat, profile carrier, sportsman profile carrier, 15 profile carrier, carrier I, carrier II Sponsor: DMAA #1902. CD: Bill Bischoff, 1809 Melody Ln, Garland TX 75042. Phone: 972-840-2135(eve) E-Mail: billbischoff@hotmail.com WebSite: dmaa-1902.org Speed all 3 days, starts noon Friday. All racing on Saturday. Carrier Sunday. Carrier contestants may fly any class for a score in the NCS top 20.

SOUTHWEST DISTRICT

Whittier Narrows

Racing & Speed Calendar For 2015

Speed Events: All Speed events including electric, 301-310 & 606-607 + Perky, NASS Sport Jet, and C-Speed. Speed flying Saturday and Sunday.

Racing Events: Super Slow Rat/Fox Race, NCLRA Clown, NCLRA Quickie Rat, and SCAR Goodyear/AMA Nationals Sport Goodyear. All four classes flown at the six scheduled events Clown will be flown using 60 foot lines. Other Racing events may be flown if three entrants show up ready to race.

Racing Sunday only.

Carrier Events: April 2015 contest only.

Combat Events: Speed Limit and One-plane-F2d held at the April contest, same events at Toys For Tots, and Knight's Dale Kirn Memorial TBA

April 11-12 2015

Bill Nusz Speed & Herb Stockton Racing Memorial

CD & Speed ED: Joe Brownlee

Navy Carrier added to this contest: Class 1, 2 and Profile (% of Record) and any Carrier entry for NCS Top 20 score.

Combat: Speed Limit and One-plane-F2d

June 20-21 2015

Bill & Bev Wisniewski Speed & Racing Memorial

September 12-13 2015

Wayne Trivin Speed & Racing Memorial

CD & Racing ED: Ron Duly

October 10-11 2015 POSSIBLE CHANGE TO A DATE
LATER IN OCTOBER

Virgil Wilbur Speed & Racing Memorial

CD & Speed ED: Howard Doering

December 5-6 2015

Toys For Tots Speed & Racing

Musciano Log Racing, Speed Limit and One-plane-F2d
Combat included in this contest.

Entry Fee: One new unwrapped toy, approximate value
\$10-\$20

CD & Racing ED: Jed Kusik

Whittier Narrows Park now charges \$6.00 per weekend day
entry fee! You can buy an annual pass from the bureaucrats
at the Park Headquarters (weekdays only) for \$25.00 if you
are a member of one of the local clubs. All events are AMA
sanctioned. Membership is available on site. All pitmen
must wear protective headgear while racing or during
practice. Before you set out on a cross-country trek, verify
the event date and location have not changed.

Speed contacts: Howard Doering (714) 638-4937 Cell
(714) 394-5304

Joe Brownlee (714) 895-1857 Cell (714) 393-1940

Jon DeFries (951) 315-3929

Racing contacts: Ron Duly (818) 843-174

Don Burke (714) 329-1457

Jed Kusik (714) 669-0205



**Hempel, Cranfill and Bischoff, get busy in the Gold Final
of Sport Goodyear at the Dallas Presidents' Day Contest.**

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) 3:16.47 Lambert/Fluker 7/07/09

(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

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

Op (7 ½ Min.) 139 Laps Bill Lee 7/17/14

Op (15 Min.) 250 Laps Ron Duly 7/17/14

NCLRA TEXAS QUICKIE RAT

Op (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/>

STEVE EICHENBERGER

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

GILLOTT RACING PRODUCTS

Custom engine reworking, hard chroming
Tim Gillott 1063 Harding St.
Salinas, CA,93906 Phone 831-449-2052

GOODYEAR PLANS- DOUG MEYER

Douglas Mayer 5010 W. 123rd Place
Hawthorne, CA 90250 310-676-4240 Home
310-463-0525 cell
mayer@kmd-arch.com

JUST ENGINES LTD

Newby Cross Farm,Newby Cross
Carlisle, CUMBRIA CA5 6JP England
Popular engines plus spares and Pipes.Irvine, Moki, Mvvs
(<http://www.justengines.unseen.org>)

JON FLETCHER

Custom replacement engine parts, needle valves.
33 Lagari Close, Wingham, NSW 2429
Australia Tel. 61 2 6553 4548

LEE MACHINE SHOP

827 SE 43rd Street
Topeka, Kansas 66609
785-266-7714 - Sales@LeeMachineShop.com
www.LeeMachineShop.com

RITCH'S BREW

Fuel ready mixed top quality finest ingredients.
4104 Lark Lane, Houston, TX 77025 713-661-5458

MBS MODEL SUPPLY

PO Box 282 Auburn KS 66402 Contact Melvin Schuette
1-785-256-2583
Solid Wire Sets and other C/L needs
mbsmodelsupply.com

MEJZLIK MODELLBAU

Borova 14, 64400 BRNO,Czech Republic Distributors of PROFI
line of Russian FAI speed gear. PROFI Engines, Pipes, Pans,
Props, Tanks, Handles and FAI Speed Models in kit form or
ready built. (Tomas Mejzlik) Phone: 420-5-432-18888 Fax: 420-
5-432-18880 e-mail mejzlik@brno.comp.cz

NELSON COMPETITION ENGINES

121 Pebble Creek Lane, Zelenople, 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: nelcomp@fyi.net

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 RACING PARTS

Back In Stock....1/4" VENTURI FOR MAGNUM/ ASP 15.

Blue anodized aluminum, reamed for accurate sizing. Drilled for
5/32"-4mm spray bar. \$10.00 each

RSM SHORT SUPERTIGRE-STYLE NEEDLE VALVE ASSEMBLY.

Works with the above venturi. \$10.00 each US postage \$3.00 per
order. Non-US, e-mail me and we'll figure it out!

Racing Handles for Sale

These handles were built as outlined in the last newsletter. They
are smaller and lighter than the Fox handle, and have a better,
more secure feel. The wooden grips are finished with Z-Poxy.
Standard cable spacing is 3", but can be made to order. Standard
length from grip to cable loops is 6", but can also be made to
order. \$25 each, plus \$6 per order shipping. (Order venturis and/
or needle valves at the same time and still only pay \$6 for
shipping!). Fox handle not for sale, shown for comparison only.
Bill Bischoff billbisch@hotmail.com



Academy of Model Aeronautics

5161 East Memorial Drive
Muncie, Indiana 47302
(765) 287-1256 – Voice
(765) 289-4248 – Fax
(765) 286-3303 -- Competitions Fax
www.modelaircraft.org
E-mail: cpierce@modelaircraft.org

2016 F2C TEAM SELECTION PROGRAM FINALS ENTRY FORM

This form is for team entry in the 2016
F2C Team Selection Program.

Pilot Name:

__ AMA # _____

E-mail address:

Signature:

Mechanic Name:

__ AMA # _____

E-mail address:

Signature:



Please fill out and send with \$100 (per
team) to:

Academy of Model Aeronautics
Competition Department – Attn: Colleen Pierce
5161 East Memorial Drive
Muncie, In 47302

Credit Card Number:

(VISA, MasterCard or Discover)

Expiration Date:

Check

#: _____

Note to Contest Director:

Entrant must be a current AMA member. As CD you may accept payment for AMA membership and the entry fee at the contest site prior to completion of the preliminary processing of the models. All entry fees and AMA memberships must be forwarded to AMA Headquarters.

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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.

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Basic membership with electronic newsletter is \$20/year for both U.S. and non-U.S. residents

Membership with a paper newsletter is \$30/year for U.S. residents and \$35/year for non-U.S.

Life members wanting a paper newsletter is \$10/year.

Apply for membership by mailing annual dues to:

NCLRA

P.O. Box 468

Bennett, CO 80102-0468

Make checks out to the order of "NCLRA" and be sure to provide your correct address for receiving the newsletter.

USING PAYPAL-To pay dues with PayPal, first log in to your Paypal account, then send dues to; Treasurer@NCLRA.org

Note that a \$.90 (\$1.10 for foreign membership) surcharge is added for the PayPal charges.

OR VIA THE WEB: Membership renewal can be easily done via the NCLRA web site at: <http://www.NCLRA.org/>