

CONTROL LINE COMPETITION NEWSLETTER

RACING - SPEED - COMBAT - STUNT - CARRIER

APRIL 2015



FRONT PAGE: MARK RUDNER (BLUE VEST) FLYING AGAINST JEAN LUC CHAMPAIN AT THE POLISH WORLD CHAMPIONSHIPS. NOTE LINE TANGLE AT TOP OF MAIN PICTURE. IT WENT FROM BAD TO WORSE FOR THE FRENCHMAN (SEE INSERT) BUT HE SOMEHOW PULLED OUT THE WIN. THE FOLLOWING ROUND SAW THE FRENCHMAN AND AMERICANS BECOME OFFICIAL TOURISTS.

From the Editor: AMA used to have a Competition Newsletter (catchy title, eh?) until it was merged into Model Aviation. Magazines like Model Aviation (aka Park Flyer Supremo) brag about having *same decade coverage* of modeling events, that's if they cover them at all. Web sites are great if kept up to date, it's a lot of work. Sites like *Flying Lines* are updated almost every day. The chat forums have current information but often you read post after post from EngineDude who knows absolutely everything and a strong opinion about things he knows nothing about. And then there are the newsletters. Great pictures, information, schedules, articles, etc. but you have to join the organization and pay for them. So, the only advantage this newsletter has over those other guys is that it's FREE!

Since this newsletter has been sent to you *unsolicited* you don't have to madly punch away at the delete button every issue. Just send a reply saying "no thanks" and you will be removed from the mailing list.

What will be in the newsletter? Contest results, a contest calendar, vendor list, and surely a horrifying picture or two. Coverage of your contest is possible if you send the information. A electronic contest flyer would be nice as well as a follow-up report and a picture of the winners or something interesting.

Your Editor has just returned from attending the Art Adamisin Cup in South Africa, so this first issue may end up being a little cobbled together. Future issues may be better.....maybe. *Ed*

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 S.C.A.R. Goodyear/AMA Nationals Sport Goodyear. Racing Sunday only.

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 and regular events.

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 |

DALLAS RACING SERIES FOR 2015

- Saturday April 25** Mouse I, Fox/Goldberg, Sportsman Goodyear, Quickie Rat, Super Slow Rat (SSR) **See flyer later in the newsletter.**
- Saturday June 20** Mouse I, Fox/Goldberg, Sportsman Goodyear, Quickie Rat, SSR
- Saturday September 5** Mouse I, Fox/Goldberg, Sportsman Goodyear, Quickie Rat, SSR
- Saturday October 11** Mouse I, Fox/Goldberg, Sportsman Goodyear, Quickie Rat, SSR

For more information contact: Bill Bischoff billbisch@hotmail.com or www.dmaa-1902.org

Link to Delphi Speed Forum: <http://forums.delphiforums.com/flyfast/messages>

Link to Stunthangar: <http://stunthangar.com/smf/index.php?board=23.0>

Link to kill time: <http://www.flightradar24.com/SKW6211> **Corrected address**

New Link: http://www.theaerosmith.com/index_1.html Bob Beecroft's site, be sure to look at Cool Coxes and Veco Series 100's

Link to Club Tamaran: Combat oriented but many useful items for Racing and Speed
<http://www.clubtamaran.com/combate.htm>

Link to Weather Underground: <http://www.wunderground.com/>

Link to Knights of the Round Circle: <http://www.kotrc.org/>

Link to McMaster-Carr: <http://www.mcmaster.com/>

Link to Irfanview, picture utility site: <http://www.irfanview.com/>

HOBBY SUPPLIERS

Old Magazine Plans On CD e-mail Tom Wilk at: tawilk636@live.com
If he doesn't have it, you probably don't need it.

Eliminator Props: <http://eliminatorprops.com/store/>

Mike's Racing Products: Mike1north@talktalk.net (see June 2012 newsletter)



OPS Engines America: Bill Hughes williamhughes4@att.net
Engines/Parts Prices start at around \$150.

Marc Warwashana: Don's wheels, fastfills, etc. whellieman@gmail.com

Paul Smit: (filler valves, wheels, etc. see May 2012 newsletter) 2482@nokwi.co.za

Andrew Nugent: Andrew.n5@bigpond.com
(The May 2013 newsletter has an article on Andrew's services or just e-mail him)

Brodak Manufacturing: <http://www.brodak.com>

Goodyear Plans: Doug Mayer: mayer@kmd-arch.com

Fuel Shutoffs: Dale Long: DirtyDshutoffs@dslextrreme.com Guaranteed to work!

Adriano Molteni: Ultra high quality flying lines, Nelson style plug, F2d models, props and mounts. adrieanto@gmail.com

The Craftsman: Stunt and Racing Engine Tuning (OS, S.T., Fox, K&B, Cox) Custom Kit Building - Ready to cover. Contact: **Jed Kusik** jedeeflyer@aol.com

Cox engines/parts and KK Specialty items: Darrell Albert RacerAlbert1@aol.com

Doctor Diesel (Eric Clutton) P.A.W. Diesels: www.cafes.net/doctordiesel
doctordiesel@cafes.net

Streamer Shuttle: <http://streamershuttle.blogspot.com>

Fast Hippy Speed Products: Tanks, torque units, titanium bell cranks, etc.
Marty Higgs ukiespeedman@hotmail.com

Hobbypartz: Cheap source for the ASP S15A which is legal for Sport Goodyear at the 2015 Nationals, now \$43.40. www.hobbypartz.com Bill Bischoff sells a venturi and needle valve assembly for \$10.00 per item plus \$3.00 shipping, billbisch@hotmail.com



MBS Model Supply

P.O. Box 282 Auburn, KS 66402-0282 <http://mbsmodelsupply.com/> Phone: After 5:00p.m. Central time or weekends only (785) 256-2583 Cell: (785) 221-7042



Frank Bowman: Custom rings for old to modern engines. Old stock parts for some engines.

E-mail for a list: Ringmaster46@msn.com

John Newton Speed Products: Fiber glass shells for B-C-D Speed. Aluminum wing skins. Newtron 21 Sport Speed kit. Props for D-Speed and many other items. Contact John on his cell phone: 909-720-1940

Membership For Everyone



National Control Line Racing Association: <http://www.nclra.org/> Membership information and tons of other neat stuff that even non-members can look at. Membership is \$20 per year with an electronic newsletter (they actually send one out on a regular basis.... unlike some other newsletter). It's \$30 if you want a paper newsletter and live in the USA and \$35 for those living in the hinterlands.



Navy Carrier Society: <http://www.navycarriersociety.org/joinNCS.aspx>



North American Speed Society: <http://clspeed.com/membership> Membership is \$35 for USA and Canadian residents and \$45 international. PayPal OK



MACA Miniature Aircraft Combat Association: <http://www.macasite.org/>

Full membership is \$30.00 per year and \$5.00 each for additional family members.



PAMPA Precision Aerobatics Model Pilots Association

<http://www.pampacl.org/> Membership starts at \$35.00.



Combat Flyers Association

<http://combatflyers.co.uk/index.htm> Vintage and F2d Combat in the UK



Academy of Model Aeronautics

<http://www.modelaircraft.org/>



2015 National Championships In Muncie, Indiana

Monday July 13 F2C, F2CN, and B/TR

Tuesday July 14 Mouse I, Mouse II*, and AMA Goodyear

Wednesday July 15 NCLRA Clown, Sport Goodyear**, and AMA Slow Rat

Thursday July 16 AMA Rat, NCLRA Quickie Rat, and Super Slow Rat

*Onboard spring starters allowed, no fuel restrictions

**Dallas Rules Link: http://www.dmaa-1902.org/Rules/Sportsman_Goodyear.pdf



World Cup F2ABCD + Support Events May 4-6 2016

Control Line World Championships F2ABCD May 7-13 2016

<http://www.cl-wch2016per.org/>

Perth, Australia



FAI World Air Games Dubai 2015 December 1-12 2015

F2d Combat! There's a flyer at the end of the newsletter.

Testing the Parra Tiger T3 engine by Norman Kirton in Western Australia

The final day's testing 14th February 2015 was conducted in much cooler temperatures averaging 30 degrees Celsius (86F) although strong and gusty winds were again experienced.

Testing was commenced with **Engine No 1** in the Dimpled Dumpling and the results were astounding. Although the starts and restarts could have been better we eventually recorded a terrific time of **22.07/10 for 37 laps**. This was on 15.92 meter, lines as required in the Australian Vintage A rules. The lines were single strand.

I would like to make the point that the fastest claimed speed at this time is only 0.07 second better. However we don't believe that the engine would be raceable at this setting without further bedding in. Further, our recorded speed was done with a standard 3mm venturi whereas we believe that the Eastern States time would have been achieved using a Rothwell fitted with a 4.2mm venturi.

We changed to **Engine No2** so that the conditions were identical. My pitman felt that this engine was slightly better than **No 1** as it started on the first flick almost every time. It took a while to get to the best setting but we eventually recorded **22.8/10 for 42 laps**. Although this is somewhat slower than **Engine No1**, he feels that there was more potential there and that the engine felt more flexible.

Fuel used was as follows:

| | |
|-------------------------------|-------|
| Klotz Benol Racing Castor oil | 18% |
| Ether | 32% |
| Jet A1 Aviation Kerosene | 50% |
| Isopropyl Nitrate | 1.3%* |

*With the temperature around 30C raising this to 1.4% could have assisted restarts.

Propeller used : APC 7" x 7" Both engines fitted with original 3mm venturi.

Parra 2.5 MK2 ABC diesel engine €140



If you are interested in the Parra 2.5MK2 (as reviewed) you should contact Alberto Parra asap since there are only 30 units available. You should tell him if you are interested in the Combat or Racing version. His e-mail address is: albparra2@gmail.com

| | | | |
|---------|------------------|------|--------------------------------------|
| Prices: | ABC engine | €140 | All other spares are also available. |
| | Multiwrench | € 16 | Shipping cost depends on order. |
| | Vintage head set | € 25 | |
| | Muffler set | € 25 | |



Dr. Rudner, you see running by, did lots of pit work and a lot of flying at the March Madness contest! There were at least two matches that he flew in which there was a standing ovation at the end. Bobby Mears ultimately stole the show with several great matches on his way to fly Stas Kulachkin, a former World Champion, and undefeated up until the finals. Bobby flew Stas a total of 6 times. First match was a rematch and then Stas beat Bobby, another rematch and then Bobby beat Stas three times in a row to take first place!

Phoenix Madness 2015 report by Cary Minor

Some of the best combat pilots in the United States, as well as several other countries, descended on

Phoenix Arizona this past March to do battle!! Aimee Olson Bagley and the Minor brothers flew in early Thursday to get a head start on trimming models for two tournaments. Fast F2d is always the Friday before the main event of F2D triple elimination on Saturday and Sunday. Twenty-three pilots entered Fast F2d and 31 pilots showed up for F2d! Lance Matassa and his crew worked hard to put this contest on. Big thanks to Jan Mears and Arlene who helped out all day long for three long days of combat! Lunch was provided at the field each day which made things easy for everyone. Lots of cool prizes were given out and each year it's a little bigger and a little better, again thanks for putting this contest on each spring and fall!

F2d Triple Elimination Results

1st Bobby Mears
2nd Stas Kulachkin
3rd Darrin Albert
4th Allen Deveuue & Andy Minor

Fast F2d Double Elimination Results

1st Andy Minor
2nd Cary Minor
3rd Chuck Rudner

Presidents' Day Contest report by Bill Bischoff Dallas, Texas February 2, 2015

For 2015, the format of the contest was changed a bit. Old Time and Classic Stunt were both scheduled for Saturday so that Sportsman Goodyear could be added on Sunday. In the days leading up to the contest the Sunday weather forecast was looking iffy at best. So, the CD (me) decided to move Racing to Saturday afternoon. I e-mailed as many of the possible contestants as I could think of, and also posted a notice on Stunt Hangar. Saturday's weather was absolutely beautiful and everybody was sure we made the right decision. With the fairly light stunt turnout, both events were done by 12:30. This 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 time to the Gold final and the next 3 to a Silver final. 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 judges Don Hutchinson, Dave Ek, and Bob Howard, tabulators Sheila Cranfill and Bill Lee, 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!

Old Time Stunt

| | | |
|-----------------|----------------------|-------|
| 1 st | Crist Rigotti | 303.5 |
| 2 nd | Don Cranfill | 299.5 |
| 3 rd | Dale Gleason | 298.5 |
| 4 th | Richard Stubblefield | 222.0 |

Classic Stunt

| | | |
|-----------------|----------------------|-------|
| 1 st | Richard Oliver | 560.0 |
| 2 nd | John Hill | 519.5 |
| 3 rd | Dale Gleason | 504.5 |
| 4 th | Richard Stubblefield | 372.5 |

Sportsman Goodyear Qualifying

| | | |
|-----------------|-------------------|--------|
| 1 st | Mike Greb | 4:05.8 |
| 2 nd | Bill Bischoff | 4:07.0 |
| 3 rd | Patrick Hempel | 4:21.3 |
| 4 th | Don Cranfill | 4:33.3 |
| 5 th | Dale Gleason | 4:46.1 |
| 6 th | Stephen Jeansonne | 4:55.7 |

Sportsman Goodyear Silver Final

| | | |
|-----------------|-------------------|----------|
| 1 st | Don Cranfill | 9:28.8 |
| 2 nd | Stephen Jeansonne | 10:10.0 |
| 3 rd | Dale Gleason | 128 laps |

Sportsman Goodyear Gold Final

| | | |
|-----------------|----------------|--------|
| 1 st | Mike Greb | 8:51.4 |
| 2 nd | Patrick Hempel | 8:58.8 |
| 3 rd | Bill Bischoff | 9:25.2 |

TARANAKI CONTROL LINE CHAMPIONSHIPS

New Plymouth, New Zealand 3-5 April 2015

Here are the Speed results from our annual Easter Championships. Well done to Don Robinson for blitzing us all in Sport Jet with a great 154.2mph. Another well done to Brendan Robinson for breaking the 190mph mark with his Fast Jet.

Regards

Andrew Robinson

| <u>NASS Sport Jet</u> (mph) | Rd 1 | Rd 2 | Rd 3 | km/h | Motor |
|------------------------------------|-------------|-------------|-------------|-------------|--------------|
| 1 st Don Robinson | 154.18 | - | - | 248.13 | JB Sport Jet |
| 2 nd Andrew Robinson | 152.87 | 152.22 | 150.32 | 246.02 | JB Sport Jet |
| 3 rd Brendan Robinson | 149.57 | 148.70 | 150.06 | 241.51 | JB Sport Jet |
| 4 th Rob Wallace | 142.69 | - | - | 229.63 | JB Sport Jet |
| 5 th Bob Reynolds | 136.93 | 136.21 | 139.37 | 224.30 | JB Sport Jet |
| 6 th Alec Fuller | 125.82 | 128.61 | 135.59 | 218.21 | Dyna Jet |

Fast Jet (mph)

| | | | | | |
|----------------------------------|--------|--------|--------|--------|--------------|
| 1 st Andrew Robinson | 197.17 | 197.78 | - | 318.30 | JB Fast Jet |
| 2 nd Brendan Robinson | 182.76 | 185.48 | 191.52 | 308.22 | Bailey |
| 3 rd Don Robinson | 155.02 | - | - | 249.48 | JB Sport Jet |
| 4 th Rob Wallace | 145.44 | - | - | 234.07 | JB Sport Jet |
| 5 th Bob Reynolds | 140.12 | 141.18 | 141.49 | 227.70 | JB Sport Jet |

2cc Speed (.12)

| | | | | |
|------------------------------|--------|-------|--------|-------------|
| 1 st Bob Reynolds | 103.37 | 99.69 | 108.48 | 174.59 km/h |
|------------------------------|--------|-------|--------|-------------|

F2A Speed (km/h)

| | | | | |
|------------------------------|--------|--------|---|-----------|
| 1 st Callum Agnew | 220.32 | 238.57 | - | 148.24mph |
|------------------------------|--------|--------|---|-----------|

| <u>Percentage Speed</u> | Class | mph | km/h | Percentage |
|----------------------------------|--------------|------------|-------------|-------------------|
| 1 st Bob Reynolds | 2cc | 108.48 | 174.59 | 97.48% |
| 2 nd Andrew Robinson | Jet | 197.78 | 318.22 | 90.10% |
| 3 rd Brendan Robinson | Jet | 191.52 | 308.22 | 87.24% |
| 4 th Callum Agnew | F2A | 148.24 | 238.57 | 83.83% |
| 5 th Don Robinson | Jet | 155.02 | 249.48 | 70.62% |
| 6 th Rob Wallace | Jet | 145.44 | 234.07 | 66.25% |
| Bob Reynolds | Jet | 141.49 | 227.70 | 64.45% |

NUSZ MEMORIAL SPEED CONTEST

Whittier Narrows April 11-12 2015 by Howard Doering

1/2A Proto Speed

| | | | |
|-------------|----------|------------|------------------------------------------|
| Dane Martin | 51.86mph | TD Powered | His first pylon flight, congratulations! |
|-------------|----------|------------|------------------------------------------|

A Speed

| | | | |
|---------|-----------|---------------|--------------|
| NewMath | 176.98mph | Profi Powered | Newtron Bomb |
|---------|-----------|---------------|--------------|

B Speed

| | | | |
|----------------|-----------|-----------------|--------------|
| NewMath | 165.45mph | XTM 28/minipipe | Newtron Bomb |
| Howard Doering | 134.42mph | OPS/megaphone | Newtron Bomb |

D Speed

| | | | |
|----------------|-----------|----------------|--------------|
| Howard Doering | 178.32mph | Nelson Powered | Newtron Bomb |
|----------------|-----------|----------------|--------------|

21 Proto Speed

| | | | |
|----------------|-----------|-------------|-----------------|
| Howard Doering | 126.95mph | OPS Powered | Elliptical ship |
|----------------|-----------|-------------|-----------------|

NASS Sport Jet

| | | | |
|----------------|-----------|---------|-------------------|
| John Newton | 148.95mph | | |
| Will Stewart | 148.38mph | | Original |
| Joey Mathison | 148.38mph | | |
| Dick Hart | 144.68mph | | |
| Howard Doering | 143.94mph | DynaJet | Porky |
| Glen Dye | 140.45mph | | |
| Dick Shannon | 138.35mph | | Carbon Stewart |
| Dane Martin | 136.72mph | | |
| Ron Duly | 135.08mph | | |
| Bob Kerr | 132.88mph | | New personal best |

Jet Speed

| | | | |
|----------------|-----------|----|----------|
| Dick Hart | 185.11mph | | Original |
| Joey Mathison | 180.83mph | | Original |
| Jon DeFries | 178.57mph | | |
| Howard Doering | 177.86mph | JB | Whitney |
| Dane Martin | 174.63mph | | |
| John Newton | 173.00mph | | |

The 2015 Art Adamisin Cup

Johannesburg, South Africa by Keith Renecke

The 2015 AA Cup took place once again at Barnstormers on the 18th and 19th of April, and all I have to say up front is that control-line is alive and well! What a successful week-end we had with eight entries in Expert stunt and two in Novice stunt. The weather threatened to be really bad with cold and strong wind but on Saturday the wind was flyable for three rounds. It was however, hard work for the pilots because the wind blew over the clubhouse creating lots of turbulence on the tar circle to make life for the pilots rather challenging. The novice event was flown on our grass circle and it is slightly out of the turbulence so it is a better deal for the novice guys. The grass field is also a little softer in the case of any prangs!

The AA Cup is named in honour of Arthur Adamisin, or “Big Art” a renowned C/L stunt personality and international judge from the USA who came out to South Africa in 1997 to help us improve our stunt flying and also judging standards. This was a giant leap forward for us at the time, so we decided to name one of our team trial events for choosing the team to world championships after him. This was planned to be held later in the year but C/L was invited to join in the fun at the combined power Nats in June in Klerksdorp, so we moved the event forward to April and also added a novice stunt category. Since last year we have seen quite a few new faces that are interested in control-line and we actually had a possible seven entries in novice stunt. Unfortunately things happened that prevented many from participating. I am however happy to report that after this competition, the positive vibes have already spread rapidly, and I believe that the Nats in Klerksdorp will have a good novice entry.

Last year in October we were invited to go and fly in Ventersdorp at the farm of Theuns Hattingh, and even though we were totally blown out by horrendous wind, we had a wonderful visit and were able to share a lot of our knowledge and experience with the Ventersdorp guys. Theuns entered novice stunt but unfortunately broke his model in Friday's practice session due to strong wind. It seems like the wind follows Theuns! That was a pity because it would have been good to see Theuns flying in the event on Saturday. In any event it was good to have Theuns, his family and friends with us. Baie dankie Theuns dat julle ons besoek het!

Most of our entries came from Gauteng, but we also had two entries from the Eastern Cape. Colin Paine came up here from Knysna with his take-apart model with a fuselage and tail feathers borrowed from the venerable R/C Ugly Stick. It flew quite well down at sea level but unfortunately was a little heavy for our thin air. I had managed to build a basic stunt trainer for a .40 size electric system and Colin used that to fly in the competition. I am notorious for arriving at competitions with new models with wet paint, but this time I beat the system.....there was no paint! That is the neat thing about electric power, the wood does not need any paint because there is zero goo from the engine! Peter Locke who is a regular entry from Grahamstown, came up here with another stunning model in his 40-Watt series. The 40-Watt 3 really topped the previous models from Peter who has the vast building experience and ability to produce such light weight and pretty models.

The furthest travelled visitor this year was Charlie Johnson from San Diego in the USA. Charlie is a very experienced C/L guy that helped us a great deal through the years especially in combat. In past years he also brought us many good C/L engines and other hard to get stuff, so we really appreciated seeing Charlie again at this event.

We had two judges Bob Skinner and John Withers arranged for the week-end, but unfortunately John got the dreaded lurgy and could not make it. I know that John always enjoys judging C/L so it was sad for us not to have him with us. We did however manage well in the capable hands of Judge Skinner, so thanks very much to Bob for sitting out there in the chilly wind while we were all playing with our toys!

The flying was intense and after round one, junior world F3A R/C pattern champion Roston Dugmore was leading the scores, with myself 2nd and young Warren Smith in 3rd place. These kids just have no fear even in these rough, bumpy conditions. With a level flight height of 1.5 metres above the tar surface, this makes for precision flying ability and good nerves. Warren is also a very good R/C pilot, and it just shows that it does not matter whether it is a box with sticks on it, or a handle with two lines.....a good pilot is a good pilot! I had to work really hard to beat these two kids by a small margin, so well done to Rostie and Warren. We are extremely proud of what they achieved in such difficult conditions.

Percy Attfield flew his Centurion XL into fourth place, so well done to Percy. His big Centurion which is based on the Paul Walker Impact design, had no shortage of power with his big MVVS electric motor running on a 5 cell lipo battery pack. Peter Locke placed 5th with his 40-Watt 3 model, and Colin Paine followed closely behind in 6th place. Len Smith in 7th place was flying a version of the 40-Watt 2 built by his dad Eric, and he bought Peter Locke's 40-Watt 2 from him, so Len will now have a well sorted out model to fly in the future.

One of our top regular fliers, Nic van der Westhuizen, flew a Nobler with a Fox 35 in it into 8th place. This did not behave that well, and unfortunately it pranged in the bad conditions on Sunday. That is never a thing that you want to see happening, so tough luck to Nic, and we look forward to seeing your Kestrel soon with the Super Tigre 46 in it.

We flew three good rounds on Saturday and Sunday morning looked promising for the final two rounds. After the first round however the wind came up with gusts over the maximum 9 metres per second or around 33 km/h and we decided to call it a day. The results were based on the best three rounds out of four.

Expert Stunt results

| Pla ce | Pilot | Round 1 | Round 2 | Round 3 | Round 4 | Total |
|-----------|-------------------------|---------|---------|---------|---------|--------|
| 1 | Keith Renecke | 850 | 918 | 924.5 | 925 | 2767.5 |
| 2 | Roston Dugmore | 864 | 865 | 912 | 911 | 2688 |
| 3 | Warren Smith | 821 | 837.5 | 898.5 | 898 | 2634 |
| 4 | Percy Attfield | 776.5 | 786 | 771 | 723 | 2333.5 |
| 5 | Peter Locke | 746.5 | 781 | 749.5 | 725 | 2277 |
| 6 | Colin Paine | 650 | 752 | 767.5 | 746 | 2265.5 |
| 7 | Len Smith | 715.5 | 773 | 598 | 765.5 | 2254 |
| 8 | NicVanDer Westhuizen | 723.5 | 740.5 | 707.5 | / | 2171.5 |

In the novice stunt event, the entries were Theo Kleynhans, and Justin Lees. Justin is another very good R/C pilot and enjoys a bit of C/L with Rostie now and then so thanks to Justin for joining in the fun. Theo has been working very hard for the last few years on his building and flying ability, and as the results show, his hard work is now paying off. He has learnt to fly these models well and develop that special feeling for the maneuver shapes that is necessary for flying this very difficult stunt pattern. I have watched his development since he started and Theo has taken a giant leap forward in

the last few months. He has also done a lot of ground work on building and understanding engines, and that is just so good to see. For the long term future of aeromodelling we really need “modellers” in the true sense of the word. Ready to fly and ARF models are all fine and well, but the hobby/sport really needs more true modellers to survive. We are very proud of what Theo has achieved!

Justin flew the beginner pattern in the novice event, and this allows the pilot to choose which maneuvers they want to perform. They can also choose very basic maneuvers like two standard wingovers instead of the reverse wingover for example. It is a good system and allows a pilot with very basic skills to enter competitions and have some fun, so hopefully we will see many more entries in this event soon.

Novice Stunt results

| Pla ce | Pilot | Round 1 | Round 2 | Round 3 | Round 4 | Total |
|-------------------|----------------|----------------|----------------|----------------|----------------|--------------|
| 1 | Theo Kleynhans | 300 | 371 | 354.5 | 328 | 1053 |
| 2 | Justin Lees | 92 | 140 | 106 | 127.5 | 373.5 |

It was interesting to see that this year seven of the eight expert models were electric powered and there were zero problems during the week-end. I personally still enjoy using engines, but in a competition it is hard to beat the reliability and predictable motor run of e-power. A good solid engine run is about 80% of what contributes to a good stunt flight, and once you have the understanding of e-power, it is hard to beat.

In conclusion I would like to say a big thank you to all of those that helped to make this competition a success. As always thanks to Percy Attfield for much of the background work and the final speech and prize giving. To Nic van der Westhuizen for his help and support in general and also for the safety tests each day. To Theo Kleynhans for his help and support each week-end and during the competition. In fact all of the guys present offered help whenever there was something to do, and that makes these events very special. One more special thank you goes to my biggest supporter, my wife Bokkie who helped with many things leading up to the event and then for a work in organizing and preparing food for the Saturday evening braai and also for doing most of the tabulating on both days. Everyone really appreciates what you do for C/L!

Now this was a good warm-up for the coming Nationals in June, so let's make the Nats a great event. We look forward to seeing many more entries there!

Following page: Novice and Expert flyers in a group photo. Chief Judge, Bob Skinner, is in the upper left hand corner. Here's a picture of the Art Adamisin Cup (lower left). It was built and donated to the club by Graham Swallow. Peter Locke got a couple of his friends to hold earlier versions of his 40 Watt models (bottom, right).



Following page: Peter Locke from Grahamstown, South Africa with his latest creation. Going from sea level in Grahamstown to 5133 feet in Johannesburg always presented a problem tuning his glow motors. The electric has solved all that. Seven out of eight Experts used electric power.



HERB STOCKTON MEMORIAL RACING CONTEST

WHITTIER NARROWS April 12, 2015 by Don Burke

A good time was had by all. A new flyer, Scott Dinger, brought his Quickie Rat out for the first time. With practice he'll be right there. Mike Callas, Bob Kerr, and Steve Eichenberger also showed filling out the entry list. Kevin Kusik joined us on a rare Sunday off. Dale Long sidelined his usual timing job and fielded a Quickie Rat.

The races were interesting if only for the fact that they were typical tortoise/hare events. No one seemed to get flawless runs with all the close ones decided by pit work or strange engine runs. That's my excuse and I'm sticking to it!!

With Combat, Carrier, and Speed events also running it was almost like a AAA event. Hope we get similar turnouts for future events.

| <u>QUICKIE RAT</u> | <u>Airplane/Engine</u> | <u>70 lap heat</u> | <u>140 lap final</u> |
|-----------------------------|-------------------------------|---------------------------|-----------------------------|
| 1. Kevin Kusik/Jed Kusik | Original/K&B 40 | 4:11.05 | 7:50.43 |
| 2. Ron Duly/Don Burke | LARQ/OS 35 | 3:26.87 | 7:54.41 |
| 3. Scott Dinger/Mike Callas | Original/K&B 40 | 11:40.93 | |
| 4. Doug Mayer/Dale Long | Original/K&B 40 | 12 laps | |

| <u>SCAR GOODYEAR</u> | | <u>100 lap heat</u> | <u>200 lap final</u> |
|-----------------------------------|--------------------------|----------------------------|-----------------------------|
| 1. Kevin Kusik/Jed Kusik | Lil Gem/Cox 15 | 5:07.77 | 10:56.53 |
| 2. Ron Duly/Don Burke | Ms Cosmic Wind/OS 15 CVA | 5:23.77 | 11:22.16 |
| 3. Mike Callas/Steve Eichenberger | Shoestring/XL 15 | 6:23.23 | |
| 4. Bob Kerr/Steve Eichenberger | Delusion/Rossi 15 | 7:21.00 | |
| 5. Bob Kerr/Steve Eichenberger | Shoestring/ASP 15 | 71 laps | |

| <u>NCLRA CLOWN RACE</u> | | <u>7 1/2 minute heat</u> |
|--------------------------------|----------------|---------------------------------|
| 1. Kevin Kusik/Jed Kusik | Clown | 102 laps |
| 2. Ron Duly/Don Burke | Clown/OS TZ 18 | 100 laps |

DMAA Spring Warm-up
Gene Hempel Memorial
April 24, 25 & 26 2015
Control Line Racing, Speed & Carrier
Site: Samuel H Hobby Park
Northwest Highway & Garland Rd. Dallas, Texas 75218
Class AA AMA Sanction # _____ GPS 32.866867,-96.671400
Pilots Meeting at 9:30 AM Saturday/ Sunday

Friday April 24th Speed Record Ratio starts at noon

Saturday 04-25-15

Class I Mouse (JSO)
Goldberg (JSO)
Sport Goodyear (JSO)
Super Slow Rat (JSO)
Texas Quickie Rat (JSO)
Record Ratio Speed (JSO)
NASS Sport Jet (JSO)
NASS Perky Speed (JSO)

Sunday 04-26-15

.15 Profile Carrier (JSO)
*Sportsman/Expert Profile Carrier (JSO)
Class I Carrier (JSO)
Class II Carrier (JSO)
Record Ratio Speed (JSO)
NASS Sport Jet (JSO)
NASS Perky Speed (JSO)

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.

Contest Director: Patrick Hempel
For additional info. contact
Email ptrckhem@aol.com

Sponsored by
Dallas Model Aircraft Association
Fuel and awards provided
By NASS & DMAA
AMA: License & Entry fee required
www.dmaa-1902.org

Racing Event Director: Bill Lee
Carrier Event Director: Bill Bischoff



The 44th ...



Control-Line Northwest Regionals

Roseburg, Oregon

May 22-23-24, 2015

Championship Control-Line flying competition

With 41 events, the Northwest Regionals provides the largest selection of CL competition events and awards available in a single contest in North America.

You can compete in these great championship events:

- **AEROBATICS** — 4 PAMFA classes of Precision Aerobatics, Old-Time Stunt, Classic Stunt, Nostalgia 30 Stunt and two classes of Profile Stunt!
- **COMBAT** — 15 Fast, 1/2-A (high-performance), 80-mph and AMA Fast!
- **NAVY CARRIER** — Profile, Class I, Class II, .15 and Nostalgia (Profile and Class I-II), Sport 40!
- **RACING** — Mouse I, NW Sport, NW Super Sport, NW Clown!
- **SCALE** — AMA Authentic Scale, AMA Sport Scale and AMA Profile Scale!
- **SPEED** — 1/2-A, 1/2-A Proto, A, B, D, FAI, Jet, Formula 40, .21 sport, .21 Proto, NW Sport Jet, F2D Proto, Northwest B Proto and Northwest C Speed!

New location: Roseburg Regional Airport!

Just off Interstate 5 — take Exit 127

For your convenience: Advance registration!

Sign up early and purchase your T-shirts in advance.

Discount for all early entry and shirt sales! Write for entry package:
John Thompson, 2456 Quince St., Eugene, OR 97404; JohnT4051@aol.com

Regionals host hotel

Get a special room rate at the the Windmill Inn, 1450 Mulholland Drive, just a short distance from the flying site. To reserve a room at the special rate, call the Windmill Inn at 541-673-0901 and mention the Northwest Regionals.

Reserve by May 7 to be assured of the special rate.

FOR INFORMATION, CONTACT:

Contest Director Mike Hazel, P.O. Box 505, Lyons, OR 97358
E-mail zzclspeed@aol.com, telephone 503-871-1057 or see flyinglines.org

The Northwest Regionals are brought to you in part by
Eugene Toy & Hobby, 541-344-2117, www.eugenetoyandhobby.com
For more information and late updates, visit flyinglines.org

June 15-16-17-18-19-20, 2015
ATTENTION WE'VE ADDED A DAY
Monday thru Saturday

Hosted by:
Brodak Mfg. & Dist. Co., Inc.,

Carmichaels, PA
Phone: 724-966-2726 - Fax: 724-966-5670
e-mail: flyin@brodak.com web site: www.brodak.com
SATNAV address N39 52.873 W79 57.57

Open to all AMA Members ♦ AAA Contest 4

CONTEST DIRECTORS: WILL DAVIS & MARK WEISS

Sportsman/Expert Foxberg & Sportsman/Expert Clown - John Saunders
Speed Limit Combat - Phil Cartier

Carrier - John Vlana.....Scale - John G. Brodak

Junk Yard Wars - Ken Armish.....Basic Flight - Watt Moore

Perky Speed Clown Speed & 100 Mile LA-25 Sport Race - Paul Smith

RULES POSTED ON WEB SITE www.brodak.com
POSTED RULES SUPERSEDE THIS FLYER

All ED's will post their schedules at the registration tent

All entrants must check in at registration to show AMA card

**For your convenience on Sunday June 14th, 2015 from
1:00pm to 3:00pm early registration is available**

FEATURING:

Old Time Stunt/OTS Phase 2 ♦ Classic Stunt/Nostalgia 30
Profile Precision Aerobatics ♦ Precision Aerobatics
Ladies & Youth Only Basic Flight
Sportsman/Expert Foxberg ♦ Sportsman/Expert Clown
.15 Carrier ♦ Carrier I & II Combined
Profile Carrier ♦ Sportsman Carrier
Fun Scale ♦ Profile Scale ♦ Sport Scale ♦ 1/2A Scale
Perky Speed ♦ Clown Speed ♦ 100 Mile LA-25 Sport Race
Junkyard Wars ♦ Speed Limit Combat

COMPLIMENTARY BUFFET
FRIDAY EVENING ♦ AT 6 P.M. AT FLYING SITE



Founded February 1947

2015
Dayton Nats Warm-Up
Control Line Speed Contest
Saturday - Sunday June 27-28
Sponsored by
Dayton Buzzin' Buzzards
North American Speed Society

Location: Buzzards Field behind Wegerzyn Gardens / 1301 E Siebenthaler Ave., Dayton, OH
45414 / Flying Site GPS Coord., Latitude 39.798605 / Longitude -84.205017

Registration: \$15 1st event, \$5 ea. Additional, max \$30 / ea. Contestant

Events: JSO

301 ½ A Speed

303 B Speed

304 D Speed

306 21 Proto

308 Formula 40

NASS Sport Jet

Perky

302 A Speed

NASS C Speed

305 ½ A Profile Proto

307 21 Sport Speed

309 Jet

310 F2A Speed

Fox 35 Speed *

Registration: 8:30 - 10am, Flying 9am-5pm each day. No Jets until 12 noon on Sunday. Lots of Motels & Restaurants nearby.

Contest Director: Warren Gregory, weg70@roadrunner.com

937-546-0869 [Sanction acquired]

* Fox 35 Speed rules by Lafayette Esquadille Club of St. Louis MO.

2015 Control Line Combat Team Trials and AMA Nationals

Muncie, Indiana July 11 – 18



NATS Registrations - www.modelaircraft.org/events/nats/entryforms.aspx
TT Registrations – will be mailed to MACA members

8 days of combat!
Come for the TT and stay
for the NATS

| | | | Thr July 9 | Fri July 10 | Sat July 11 | Sun July 12 |
|------------------------------|-------------|--------------------------------------------------|--------------------------|---------------------------------------------------------------|---------------------------------|----------------------------|
| | | | | Mandatory Pilots Meeting and Dinner 8PM ¹ | F2D Team Trials ² | F2D Team Trials (cont.) |
| | | | Fields open for practice | | Triple Elim – Full F2D Rules | |
| Mon July 13 | Tue July 14 | Wed July 15 | Thr July 16 | Fri July 17 | Sat July 18 | |
| AMA Nats | AMA Nats | AMA Nats | AMA Nats | AMA Nats | AMA Nats | |
| F2D ³ | F2D (cont.) | F2D Fast ⁴ | Speed Limit ⁵ | 1/2A ⁶ | Fast ⁷ | |
| Triple Elim – Full F2D Rules | | Double Elim First Round – Guaranteed Two Matches | | | | |

¹ Dinner and meeting at AMA HQ

² Event run per MACA Team Selection procedures

³ F2D – current FAI rules

⁴ F2D Fast – AMA 328 with 2010 or later F2D equipment

⁵ Speed Limit – unofficial event – 75mph speed limit, AMA 329 scoring

⁶ 1/2A – AMA 330 on 42' lines

⁷ Fast – AMA 328 "big block" fast combat

Academy of Model Aeronautics

5161 East Memorial Drive

Muncie, Indiana 47302

www.modelaircraft.org

Volunteers Needed! Contact CD: Dave Edwards davee19348@gmail.com 484 899 8017



EVENTS

31ST GRAND PRIX OF FRANCE

11-12 JULY 2015

WORLD CUP F2B-F2C
F2A-F2F-F2G

LANDRES, enjoy your flight

4TH DUTCH GRAND PRIX 09-10 JULY 2015

WORLD CUP F2A-F2B-F2C
F2F-F2G

ENTRY FEES FOR EACH COMPETITION
30€/15€ JUNIOR-SECOND CLASS

COMING
SOON

on-line registration
www.f2cmbl.org

**2015 FAI F2 European
Championships
for Control Line
Model Aircraft
Pazardzhik, Bulgaria
22 - 29 August
2015**



www.f2abcd.com



Bulgarian Aeromodelling Federation
188A, Slivnitsa blvd., ap.12
1202 Sofia, Bulgaria
www.bfavo.com



**2015 FAI F2
European Championships for Control
Line Model Aircraft
22 - 29 August 2015
Pazardzhik, Bulgaria,**

Bulletin 1

The 2015 FAI F2 European Championships for Control Line Model Aircraft (juniors and seniors) will be organised by the Bulgarian Aeromodelling Federation (BAF) from 22-29 August, in the town of Pazardzhik, Bulgaria.

Competition Rules

Classes : F2A, F2B, F2C and F2D

European Championships will be run according to:

- FAI Sporting Code Section 4 Aeromodelling, Volume ABR 2015 Edition
- FAI Sporting Code Section 4 Aeromodelling Volume F2 Control Line model aircraft, 2015 Edition
- FAI Code of Ethics
- Anti-doping : As per rule B.3.7 of FAI Sporting Code Section 4 Aeromodelling, Volume ABR 2015 Edition, any competitor who has to take any of the substances on the WADA Prohibited List for a medical condition must have a Therapeutic Use Exemption (TUE) granted by the FAI.

Valid FAI sporting licenses will be mandatory for each competitor, team manager, assistant team manager and mechanics. Only licenses which are registered on the FAI central database are valid.

Official languages

The official languages - English and Bulgarian.

Visa requirements

Visitors from most countries do not require a visa to enter Bulgaria. In case of doubt, please enquire in your own country.



| Date | End date | Title |
|---------------------|---------------------|-----------------------------------------------------------------------------|
| 04/03/2015 09:00 | 04/05/2015 17:00 | 2015 Friendship Cup, Rossosh, F2D |
| 04/04/2015 09:00 | 04/05/2015 17:00 | 25th Open Vila de Vidreres, Vidreres, F2ABCF |
| 04/18/2015 09:00 | 04/19/2015 17:00 | 2015 Champions cup Memory Belman B.R., Kharkiv, F2A |
| 04/24/2015 09:00 | 04/27/2015 17:00 | 2015 Spring Open Championship of Tula Region, Aleksine, F2D |

| | | |
|---------------------|---------------------|-----------------------------------------------------------------------------------------|
| 04/26/2015 09:00 | 04/26/2015 17:00 | <u>Compétition CMBL</u> |
| 05/02/2015 09:00 | 05/03/2015 17:00 | <u>2015 Coupe Internationale du Sud Ouest, Ste Eulalie, F2ABCFG</u> |
| 05/02/2015 09:00 | 05/03/2015 17:00 | <u>23rd IKR Pokal, Bitterfeld, F2ABDG F2B-beginner</u> |
| 05/07/2015 09:00 | 05/10/2015 17:00 | <u>3rd Aeromodelling Thailand Open, Pattaya, F2DG</u> |
| 05/15/2015 09:00 | 05/17/2015 17:00 | <u>2015 Control Line Jura Cup, Breitenbach, F2BCF</u> |
| 05/15/2015 09:00 | 05/17/2015 17:00 | <u>2015 Phoenix Cup, Smolensk, F2ACF</u> |
| 05/16/2015 09:00 | 05/17/2015 17:00 | <u>2015 World Cup Hradec Kralove, Hradec Kralove, F2ABC</u> |
| 05/16/2015 09:00 | 05/17/2015 17:00 | <u>2015 Karlskoga World Cup, Karlskoga, F2AD</u> |
| 05/22/2015 09:00 | 05/25/2015 17:00 | <u>2015 Kyiv Cup, Kyiv, F2ABCD</u> |
| 05/23/2015 09:00 | 05/24/2015 17:00 | <u>2015 Limfjords, Aalborg, F2AD</u> |
| 05/24/2015 09:00 | 05/24/2015 17:00 | <u>Compétition CMBL</u> |
| 05/29/2015 09:00 | 06/01/2015 17:00 | <u>2015 Khimki Cup, Khimli, F2AC</u> |
| 05/30/2015 09:00 | 05/31/2015 17:00 | <u>28th Concours International de Pepinster, Pepinster, F2ABCF ...</u> |
| 06/06/2015 09:00 | 06/07/2015 17:00 | <u>5th open International control Line Portugal F2 World Cup, M ...</u> |
| 06/13/2015 09:00 | 06/14/2015 17:00 | <u>23rd Internationaler Sächsischer Schweiz cup, Sebnitz, F2ABC ...</u> |
| 06/19/2015 09:00 | 06/21/2015 17:00 | <u>2015 cup of Belarus White Stork, Minsk, F2D</u> |
| 06/19/2015 09:00 | 06/21/2015 17:00 | <u>2015 Kuyavia World cup Wioclawek, Kruszyn, F2ABC</u> |
| 06/20/2015 09:00 | 06/21/2015 17:00 | <u>2015 Tournoi International Melusin, Rouillé, F2ABG</u> |
| 06/20/2015 09:00 | 06/21/2015 17:00 | <u>2nd Trofeo Franco Ballesio, Ciriè, F2B</u> |
| 06/26/2015 09:00 | 06/29/2015 17:00 | <u>2015 West Siberia Cup, Tyumen, F2D</u> |

| | | |
|---------------------|---------------------|-----------------------------------------------------------------------------------------|
| 06/26/2015 09:00 | 06/28/2015 17:00 | <u>23rd World Cup Wierzawice - Memorial of Eugeniusz Kujan, Wie ...</u> |
| 06/27/2015 09:00 | 06/28/2015 17:00 | <u>34th Barcelona Trofeu La Mercé F2D World Cup, Barcelona, F2D ...</u> |
| 07/09/2015 09:00 | 07/10/2015 17:00 | <u>2015 Dutch Grand Prix, Landres, F2A,B,C,F,G</u> |
| 07/09/2015 09:00 | 07/10/2015 17:00 | <u>2015 Black Cat Cup, Riga, F2D</u> |
| 07/11/2015 09:00 | 07/12/2015 17:00 | <u>31ème Grand Prix de France, Landres, F2A,B,C,F,G, F4B</u> |
| 07/11/2015 09:00 | 07/12/2015 17:00 | <u>2015 Vangazi Cup, Vangazi, F2D</u> |
| 07/18/2015 09:00 | 07/19/2015 17:00 | <u>2015 In Memory of Jozef Gabris, Zarnovica, F2B</u> |
| 07/25/2015 09:00 | 07/26/2015 17:00 | <u>2015 Speedracer cup, Vilnius, F2AC</u> |
| 08/02/2015 09:00 | 08/03/2015 17:00 | <u>2015 Dutch Combat International, Escharen, F2D</u> |
| 08/08/2015 09:00 | 08/09/2015 17:00 | <u>10th Int. Tiroler Fesselfliegen, Radfeld, F2B</u> |
| 08/20/2015 09:00 | 08/22/2015 17:00 | <u>2015 Assen Jordanoff Cup, Pazardzik, F2ABCD</u> |
| 08/23/2015 09:00 | 08/30/2015 17:00 | <u>2015 FAI European Championships for Control Line Model Aircr ...</u> |
| 09/03/2015 09:00 | 09/07/2015 17:00 | <u>2015 MAI Cup Memory P.Grushin, Khimki, F2D</u> |
| 09/12/2015 09:00 | 09/13/2015 17:00 | <u>52nd Coppa D'Oro, Lugo, F2ABCD</u> |
| 09/19/2015 09:00 | 09/20/2015 17:00 | <u>2015 Carpathia cup, Bekescsaba, F2CF</u> |
| 09/26/2015 09:00 | 09/27/2015 17:00 | <u>2015 Open F2 Control Line Swiss Nationals, Schwalbennest bei ...</u> |
| 10/02/2015 09:00 | 10/05/2015 17:00 | <u>2015 Carpathian Cup - Golden Autumn, Mizhhirya, F2D</u> |
| 10/03/2015 09:00 | 10/04/2015 17:00 | <u>24th Open International of Valladolid, Valladolid, F2ABCD</u> |

Previous calendar copied from the French CMBL site <http://www.f2cmbl.org/>

List of sports on the programme of the FAI World Air Games Dubai 2015

| AIR SPORT / ACTIVITY | DISCIPLINE | CLASS |
|--------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|
| AEROBATICS | Glider Aerobatics | |
| | Powered Aerobatics | |
| AEROMODELLING | F2 - Control Line Model Aircraft | F2D - Combat Model Aircraft |
| | F3 - Radio Control Model Helicopters | F3N – RC Helicopters Freestyle |
| | F3 - Radio Control Aerobatics | F3P - Indoor R/C Aerobatic Powered Model Aircraft |
| | F3 - Radio Control Pylon Racing Model Aircraft | F3T – Semi-Scale Pylon Racing Model Aircraft With Control Technology |
| AMATEUR-BUILT & EXPERIMENTAL AIRCRAFT | Aircraft Building | |
| | Aircraft Flying | |
| BALLOONING | Hot Air Airships | |
| | Hot Air Balloons | |
| GENERAL AVIATION | Air Navigation Race | Accuracy Landing |
| | | Air Navigation Race |
| GLIDING | Gliding Efficiency Challenge | |
| MICROLIGHTS & PARAMOTORS | Weight-Shift Controlled | |
| | Gyrocopters | |
| | Paramotors | |
| PARACHUTING | Accuracy Landing | Male Team Accuracy |
| | | Female Team Accuracy |
| | | Junior Male Accuracy |
| | | Junior Female Accuracy |
| | Artistic Events | Freeflying |
| | | Freestyle Skydiving |
| | Canopy Formation | 2-Way Sequential |
| | | 4-Way Rotation |
| | Canopy Piloting | Accuracy |
| | | Speed |
| | | Distance |
| | | Freestyle |
| | Formation Skydiving | 4-Way Open |
| | | 4-Way Female |
| | | 8-Way |
| | Indoor Skydiving | |
| | Speed Skydiving | |
| PARAGLIDING | Accuracy | |
| | Aerobatics | Solo |
| | | Synchro |
| ROTORCRAFT | Helicopters | Parallel Slalom |
| | | Parallel Fender Rigging |



It's been a long two weeks.