

# FREE FLIGHT

## News

### CONTENTS

FFn	114	FAI Free Flight World Cup	122
CIAM Bureau meeting	114	BMFA 8th Area Meeting, October 16	122
CIAM Competition Calendar 2012	114	KeilKraft Senator Postal 2010/11	122
News from BMFA FF Tech Committee	119	Worldwide Postal Competition 2011/12	123
F1H Euro Challenge 2011	119	BMFA Free Flight Championship	124
Noticeboard	119	Indoor Records	124
Aeroloop	120	Lulu 2011 International Postal Competition	124
BMFA Free Flight Forum	120	UK Competition News	124
Midland Gala, North Luffenham, Oct 30	121		

### FFn DIARY

January 15 Werrington Leisure Centre, Peterborough	BMFA Indoor day. 10.00 to 17.00. See FFn 1107. Contact Mark Benns 01733 755733	February 18 Nova Pazova, Serbia	3rd Koplas Pro Cup. F1N. Contact: Bozo Grubic, Pinkijeva 10, 22330 Nova Pazova, Serbia, tel +381 63 80 17 132, fax: +381 22 323 597, email: bozo.grubic@yahoo.com
January 21 Ceminac, Croatia	F1N Indoor open Ceminac. F1N. Contact: Antun Sikic, Aeroklub Osijek, Krizanicev trg 1, 31000 Osijek, Croatia, tel +385 31 208 262, fax: +385 31 208 262, email: asikic@gmail.com, web: www.aeromodelarstvo.net	February 19 Area Venues	BMFA 2nd Area event. C/P (White), F1A (KMAA/Plugge), F1G, Vintage R/P (Plugge), Vintage Glider, HLG-CLG(Plugge).
January 29 Area Venues	BMFA 1st Area event. C/G (Plugge), C/R (Plugge), C/P (Plugge), Mini Vintage, SLOP.	March 2-4 Moravske Toplice, Slovenia	Mura cup. F1A, F1B, F1C, F1Q World Cup. Contact: lemut Bogdan, Borovnjakova 1, 90000 Murska Sobota, Slovenia, tel +386 41 210 144, fax: +386 2 534 8151, email: muracup@siol.net web: http://freeweb.siol.net/muracup
February 11-13 Lost Hills, California, USA	Kiwi Cup of New Zealand. F1A, F1B, F1C, F1E, F1P Juniors, F1Q World Cup. Contact: Roger Morrell, 1916 B Gates Ave, 90278 Redondo Beach, USA, tel +1 310 374 21 36, email: r_morrell@yahoo.com	March 4 Area Venues	BMFA 3rd Area event. C/G, F1B (Duce/Plugge), F1J-2A, Mini Vintage (Plugge), P30 (Plugge).
February 12 (provisional date) Middle Wallop	Crookham Gala. Comb Power, Comb Glider, CdH, mini-vintage. Start 10.00. Contact Roy Vaughn, tel 01344 779071, roy.vaughn@btinternet.com	March 15-17 Omarama, New Zealand	Omarama Cup. F1A, F1B, F1C World Cup. Contact: Robert Wallace, 956 Riversea Road South, Hastings 4122, New Zealand, tel +64 6 87 84 993, fax: +64 6 87 84 993, email: ffonzrjw@net.co.nz
February 12 Werrington Leisure Centre, Peterborough	BMFA Indoor day. 10.00 to 17.00. See FFn 1107. Contact Mark Benns 01733 755733	March 17-18 Hranice, Czech Rep.	2 F1E World Cup events. 17th Winter Cup 1, 18th World Cup 2. Contact: Vojtech Zima, Smetanovo nab. 1840, 75301 Hranice, Czech Rep., tel +420 604 589 792, email: voziteam@seznam.cz
February 14 Lost Hills, California, USA	Pan American Cup. F1A, F1B, F1C World Cup. Contact: Chris Zbigniew Lenartowicz, 75 Eastdale Ave Apt 717, Toronto, M4C 5N3, Canada, tel: +1 416 698 5325, fax: +1 413 698 5325, zlenart@hotmail.com web: www.torontofreeflight.org	March 17-18 Gjovik, Norway	Holiday on Ice. F1A, F1B, F1C, F1Q World Cup. Contact: Tor Bortne, Jernbanev 28, 2840 Reinsvoll, Norway, tel +47 611 974 63 or +47 920 95 329, email: tobortne@bbnett.no http://frifluktvegar.no
February 16-20 Lost Hills, California, USA	Maxmen International / California Cup. F1A, F1B, F1C, F1E, F1P, F1Q World Cup. Contact: George Batiuk, 576 Dana Street, San Luis Obispo, USA, tel +1 805 305 0340, fax: +1 805 546 0700, email: slogb1@gmail.com	March 18-21 Omarama, New Zealand	Kofuku Cup. F1A, F1B, F1C, F1G, F1H, F1J World Cup. Contact: Robert Wallace, 956 Riversea Road South, Hastings 4122, New Zealand, tel +64 6 87 84 993, fax: +64 6 87 84 993, em: ffonzrjw@net.co.nz

## FFn

A reminder that a subscription renewal form was included in FFn last month. To continue to receive FFn, please return the form with your payment or make an online payment.

Note that the stock of the 2011 NFFS Symposium report is running very low. They are now going faster because the NFFS itself has sold all its copies and is directing its customers to FFn! This means that when our stock is sold there will be no possibility of getting any more.

## CIAM BUREAU MEETING

Report by Ian Kaynes

The Bureau meeting was held in Lausanne on December 2nd and 3rd. Tasks of the meeting include review of the agenda for the Plenary meeting next April, prepare the 2012 contest calendar and to review plans for the 2012 Championships.

The proposals for the agenda of the 2012 Plenary meeting have been received. The proposals relevant to free flight will be described in FFn in the new year, but as a brief summary here the major proposals are from Bulgaria to ban the use of radio on F1A models and from FFSC to increase the events counting for World Cup from 3 to 4. Further details will be in FFn.

The calendar was approved by the Bureau but, as noted below, a few events remain in doubt with regard to payment of their CIAM registration fees

### Championships News

*Junior World Championships F1A F1B F1P* had been awarded to Slovenia. This is the same country which hosted the 2011 European Junior Champs, the most notable feature of which was that the field was almost useless as a result of being covered with maize.

Discussion with Slovenia had lead to the promise to find another field and apparently one has now been selected which has been used for summer spacemodelling events. According to the brief bulletin received by the Bureau just before the meeting this was near Ljubiana but nobody from Slovenia was present to give details of the field and nothing was known about accommodation. The schedule showed the event running from July 28th to August 5th which overlaps with the European Championships in Italy. In view of the various doubts about the plans the Bureau could not approve the Championships. The President will write to Slovenia to aim for an immediate resolution of the outstanding issues.

*Indoor World Championships F1D* will be held in Belgrade, in the same hall used for the Champs in the last five years. The timetable is:

Aug 8	Arrival
Aug 9	Training
Aug 10	Contest flights 1 and 2
Aug 11	Contest flights 3 and 4
Aug 12	Contest flights 5 and 6, prize-giving, banquet
Aug 13	Departure

The entry fee is €300 senior, €250 junior competitors, and €200 for team managers. Accommodation in Hotel N will cost €52 per day covering bed and breakfast plus lunch and dinner in the hall. The banquet costs €40 seniors, €35 juniors.

*European Championships F1A F1B F1C* will be held at Capannori in the west of the Tuscany region of Italy. The municipality has been working to improve the field, including removing bushes and making bridges for access.

Entry fee is €270 for competitors, €150 for team manager, €50 for supporters, €40 banquet but free to competitors and team managers. Hotel prices are about €45 per day with dinner and breakfast.

It was explained that the timetable proposed was unusual because there is often a strong wind in the afternoon and

evening, so that the contest rounds will be flown from 7.00 to 14.00 and the flyoff the following morning at 7.00. This extends the event by an extra day, putting up the overall cost, but was accepted by Bureau on the advice that it was necessary to be more certain of good weather.

Another issue was potential date overlap with the Junior World Champs. This was partly resolved by delaying the opening ceremony one day so that people could travel from Ljubiana to Capannori during that day (5 hours drive time).

The details of the timetable are:

Aug 4	Arrival, practice, processing
Aug 5	Practice, processing, team manager meeting, opening ceremony
Aug 6	F1A contest
Aug 7	F1A flyoff and reserve day
Aug 8	F1B contest
Aug 9	F1B flyoff and reserve day
Aug 10	F1C contest
Aug 11	F1C flyoff and reserve day, closing ceremony, banquet.
Aug 12	Departure.

*European F1E Championships for Juniors and Seniors* will be at Turda, Romania. Details are similar to previous events, the major development is that the good hills used for the 2003 World Champs are now accessible once more, since the access track has been improved. Entry fee is €250 (€200 for juniors), accommodation about €50 per person per day full board and banquet €35. The timetable is:

Aug 19	Arrival, registration
Aug 20	Popa Cringu World Cup event
Aug 21	Training, processing, opening ceremony, team manager meeting
Aug 22	Junior contest
Aug 23	Senior contest
Aug 24	Reserve day, trip, prize-giving, banquet
Aug 25	Turda World Cup
Aug 26	Reserve day for Turda Cup, departure.

A late submission from Mongolia for a *2012 Asian FF Championship F1A F1B F1C* was accepted by the Bureau. This is the second time there has been a continental championship for Asia, the previous was in Kazakhstan in 1998. Entry fees are €270 for competitors, €150 for team managers, banquet €35, accommodation in camp hotels €36 per day. The timetable is:

July 14	Early arrival and registration
July 15	Arrival, registration, processing, opening ceremony
July 16	Mongolia Cup World Cup F1A, and F1H and HLG
July 17	Mongolia Cup F1B F1C, F1P, and F1G, F1J
July 18	Asian Championships F1A
July 19	Asian Championships F1B and F1C
July 20	Open national Mixmen F1A F1B F1C
July 21	Reserve day, tour, closing ceremony, banquet
July 22	Departure.

## CIAM COMPETITION CALENDAR 2012

The following is the CIAM calendar for free flight championships, World Cup and other international events. First is a summary of World Cup events, see the calendar below for full details of each event.

Note that the calendar is provisional because a few events remain in doubt with regard to paying their CIAM registration fees: Holiday on Ice, FF CRO, Commonwealth Cup of Belarus, FF Holiday of Belarus, and Mongolia Cup (#)

There is a date clash in F1E, it is likely that the Serbian events (\*) will move, possibly to June or July.

## World Cup summary F1E

Feb 11-13	Lost Hills	USA	Kiwi Cup of New Zealand
Feb 16-20	Lost Hills	USA	Maxmen California Cup
Mar-17	Hranice	CZE	Winter Cup 1
Mar-18	Hranice	CZE	Winter Cup 2
April 21	Oberkotzau	GER	World Cup
April 22	Oberkotzau	GER	Föhrberg-Cup
May 5	Liptovsky M	SVK	Liptov Cup
May 6-13	Liptovsky Ms	SVK	Nosko Memorial Cup
Jun-23	Monti Lessini	ITA	7th Coppa Primavera 2012
Jun-24	Monti Lessini	ITA	2nd Volare Lessini
Jul 13-15	Denver	USA	MMM 14-Rounder
Aug-21	Turda	ROU	Memorial Popa Cringu
Aug-26	Turda	ROU	Cupa Turda
Sep-14	Gliwice	POL	Friendship Cup of Ukraine
Sep-15	Toszek	POL	Toszek Cup
Sep-15*	Zlatibor	SRB	Zlatibor Cup
Sep-16	Toszek	POL	Governor's cup
Sep-16*	Zlatibor	SRB	Pegaz Cup
Sep-22	Tourtenay	FRA	9th Poitou Charentes
Sep-23	St Jean	FRA	Poitou - Moncontour

## World Cup summary F1A, F1B, F1C, F1P, F1Q

	venue		F1 classes
Feb 11-13	Lost Hills	USA	Kiwi Cup of NZ ABCPQ
Feb 14	Lost Hills	USA	Pan American Cup CAN ABC
Feb 16-20	Lost Hills	USA	Maxmen ABCPQ
Mar 2-4	Moravske	SLO	Mura cup ABCQ
Mar 15-17	Omarama	NZL	Omarama Cup ABC
Mar 17-18	Gjovik	NOR#	Holiday on Ice ABCQ
Mar 18-21	Omarama	NZL	Kofuku Cup ABC
Mar 20-21	Matfors	SWE	Matfors VT ABC
Mar 24-25	Säkyä, Pori	FIN	Bear Cup ABCQ
Mar 31-Apr 1	Ceminac	CRO	Kup Slavonije Baranje ABC
April 2-4	Narrandera	AUS	Southern Cross Cup ABC
April 6-9	Narrandera	AUS	Australian FF Champs ABC
April 17-21	Nalchik	RUS	Naloev Cup ABCP
April 20-23	Vize-Kirkklareli	TUR	Istanbul FF Cup ABC
April 21-22	Tapolca	HUN	Herend Cup ABCQ
April 21	Lucenec	SVK	Novohrad Cup ABC
April 22	Lucenec	SVK	City Cup of Lucenec ABC
April 27	Madziunai	LTU	Baltic Cup ABCPQ
April 28-29	Salonta	ROU	Harghita Cup ABCP
April 28	Madziunai	LTU	Estonian FF Cup ABCPQ
May 4-6	Levski	BUL	Sofia Cup ABCPQ
May 5-6	Vsechov	CZE	27th Jihocesky pohar ABC
May 12	Salonta	ROU	Szabó Miklós of Hungary ABCQ
May 12-13	Andover	GBR	Stonehenge Cup ABCPQ
May 18-20	Kharkiv	UKR	Zmiev Cup ABCP
May 25-27	Zrenjanin	SRB	29th Srem Cup ABCQ
Jun-23	Zrenjanin	SRB	Memorial Djordje Zigic ABC
Jul-05	Rinkaby	SWE	Swedish Cup ABCPQ
Jul 6-8	Kyiv	UKR#	Commonwealth, BLR ABCP
Jul 6-8	Krbava	CRO#	FF CRO Cup ABC
Jul 6-9	Rinkeby	SWE	Danish Cup ABCQ
Jul-08	Rinkaby	SWE	Norwegian Cup ABCQ
Jul 13-15	Kyiv	UKR	32nd Antonov Cup ABCP
Jul 13-15	Denver	USA	MMM 14-Rounder ABCPQ
Jul 15-21	Ulaanbaatar	MGL#	Mongolia Cup ABCP
Jul 21-22	Borden	CAN	Huron cup ABCQ
Jul 27-22	Mostar	BIH	48th Mostar Kup ABC
Jul 27-28	Pas de Jeu	FRA	35th Poitou ABC
Aug 18-19	Borden	CAN	Canada Cup ABCQ
Aug 24-25	Salonta	ROU	Salonta Cup ABCQ
Aug 24-25	Ofakim	ISR	Negev Open ABCP
Aug 25-26	Bosanski	BIH	Memorijal Izet Kurtalic ABC
Aug-25	Madziunai	LTU	Hunt a max ABCPQ
Aug-25	Kietrz	POL	Kietrz Cup ABCQ
Aug 28-Sep1	Samara	RUS	Mikhail Knyazev Mem ABCP
Aug 30-Sep2	Zülpich	GER	43rd Eifelpokal ABCPQ
Aug 31-Sep2	Turbia	POL	Summer Cup ABC
Sep 8-10	Berehove	UKR	FF Holiday Switzerland ABCP

Sep 11-13	Berehove	UKR	Black Sea Cup Georgia ABCP
Sep 14-16	Berehove	UKR#	FF Holiday of Belarus ABCP
Sep 21-23	Levski	BUL	Bulgarian Cup ABCPQ
Sep 22-23	Andover	GBR	Equinox Cup ABCPQ
Sep-29	Prilep	MKD	Macedonia Cup ABCPQ
Sep-30	Prilep	MKD	Prilep Cup ABCPQ
Oct 12-15	Lost Hills	USA	Sierra Cup ABCPQ
Oct 13-14	Capannori	ITA	Città di Capannori ABCPQ
Oct 19-21	Sentjerne	SLO	Krka Cup ABCQ
Nov 3-4	Arzay	FRA	9th Philippe Lepage ABC

January 21 F1N Indoor open Ceminac. F1N. Entry fee €8. Contact: Antun Sikic, Aeroklub Osijek, Krizanicev trg 1, 31000 Osijek, Croatia, tel +385 31 208 262, fax: +385 31 208 262, email: asikic@gmail.com web: www.aeromodelarstvo.net

February 11-13 Kiwi Cup of New Zealand. F1A, F1B, F1C, F1E, F1P Juniors, F1Q World Cup. Entry fee €70. Contact: Roger Morrell, 1916 B Gates Ave, 90278 Redondo Beach, USA, tel +1 310 374 21 36, email: r\_morrell@yahoo.com

February 14 Pan American Cup. F1A, F1B, F1C World Cup. Entry fees US\$30. Contact: Chris Zbigniew Lenartowicz, 75 Eastdale Ave Apt 717, Toronto, M4C 5N3, Canada, tel +1 416 698 5325, fax: +1 413 698 5325, email: zlenart@hotmail.com web: www.torontofreeflight.org

February 16-20 Maxmen International / California Cup. F1A, F1B, F1C, F1E, F1P, F1Q World Cup. Entry fees US\$ 30. Contact: George Batiuk, 576 Dana Street, San Luis Obispo, USA, tel +1 805 305 0340, fax: +1 805 546 0700, email: slogb1@gmail.com

February 18 3rd Koplas Pro Cup. F1N. Entry fees free. Contact: Bozo Grubic, Pinkijeva 10, 22330 Nova Pazova, Serbia, tel +381 63 80 17 132, fax: +381 22 323 597, email: bozo.grubic@yahoo.com

March 2-4 Mura cup. F1A, F1B, F1C, F1Q World Cup. Entry fee €30. Contact: Lemut Bogdan, Borovnjakova 1, 90000 Murska Sobota, Slovenia, tel +386 41 210 144, fax: +386 2 534 81 51, email: muracup@siol.net web: http://freeweb.siol.net/muracup

March 15-17 Omarama Cup. F1A, F1B, F1C World Cup. Entry fees €70. Contact: Robert Wallace, 956 Riversea Road South, Hastings 4122, New Zealand, tel +64 6 87 84 993, fax: +64 6 87 84 993, email: ffonzrjw@net.co.nz

March 17-18 2 F1E World Cup events. 17th Winter Cup 1, 18th World Cup 2.. Entry fees Senior: €30 / junior €15. Contact: Vojtech Zima, Smetanovo nab. 1840, 75301 Hranice, Czech Rep., tel +420 604 589 792, email: voziteam@seznam.cz

March 17-18 Holiday on Ice. F1A, F1B, F1C, F1Q World Cup. Entry fees €35. Contact: Tor Bortne, Jernbanev 28, 2840 Reinsvoll, Norway, tel +47 611 974 63 or +47 920 95 329, email: tobortne@bbnett.no web: http://frifluktveggar.no

March 18-21 Omarama, New Zealand	Kofuku Cup. F1A, F1B, F1C, F1G, F1H, F1J World Cup. Entry fees €70. Contact: Robert Wallace, 956 Riversea Road South, Hastings 4122, New Zealand, tel +64 6 87 84 993, fax: +64 6 87 84 993, email: ffonzrjw@net.co.nz	April 27 Madziunai, Lithuania	Baltic Cup. F1A, F1B, F1C, F1P, F1Q World Cup. Entry fees €35. Contact: Rolandas Mackus, Paupio 24, 28140 Utena, Lithuania, tel +370 687 26002, email: rolandasmackus@vytrlma.lt web: www.balticcup.lt
March 20-21 Matfors, Sweden	Matfors VT Internatioanl. F1A, F1B, F1C World Cup. Entry fees Senior €35 / Junior €15. Contact: Mikael Holmbom, Österlo 140, 860 13 Stöde, Sweden, tel +46 76 116 91 33, e: mikael.holmbom@matforsmfk.se web: www.matforsmfk.se/matforsvt	April 28 Madziunai, Lithuania	Estonian Free Flight Cup. F1A, F1B, F1C, F1P, F1Q World Cup. Entry fees Senior: €35 / junior €15. Contact: Aavo Koppel, Kreegipuu pst. 4, Maardu 74117, Estonia, tel +372 50 48886, fax: +372 697 9599, email: aavo.koppel@hotmail.com web: www.mudellend.eu
March 24-25 Säkylä, Pori, Finland	Bear Cup. F1A, F1B, F1C, F1Q World Cup. Entry fees Senior: €30 / Junior €15. Contact: Jari Valo, Liusketie 6F 36, 00710 Helsinki, Finland, tel +358 50 505 5852, e: jari.valo@ncc.fi web: www.flyhigh.fi	April 28-29 Salonta, Romania	Harghita Cup. F1A, F1B, F1C, F1P, F1H World Cup. Entry fees Senior €30 / Junior €20. Contact: Kiss Istvan, Str Berde Mozes nr 24, Jud. Harghita, 535400 Cristurul - Secuiesc, Romania, tel +407 451 614 35, fax: +402 662 42 164, email: tnulokhaza@hrlne.ro http://www.frmd.ro
March 31 - April 1 Ceminac, Croatia	15th Kup Slavonije i Baranje. F1A, F1B, F1C World Cup. Entry fees €30. Contact: Vinko Tomljanovic - D. Sokolic, Croatia, tel +385 31 203 245 or +385 31 571 700, email: vinko.tomljanovic@gmail.com web: www.aeromodelarstvo.net	May 4-6 Levski, Bulgaria	Sofia Cup. F1A, F1B, F1C, F1P Juniors, F1Q World Cup. Entry fees €30. Contact: Borislav Bardarov, Zona B-5, Block 7 A, Sofia, Bulgaria, tel +359 888 703 306, fax: +359 618 607 72, email: f1a@abv.bg web: www.F1ABC.com
April 2-4 Narrandera, NSW, Australia	Southern Cross Cup. F1A, F1B, F1C World Cup. Entry fees AUS\$ 30. Contact: Roy Summersby, 132 the Esplanade Umina, 2257 NSW, Australia, tel +61 24 34 100 72, em: roy132@optusnet.com.au	May 5-6 Vsechov, Czech Rep.	27th Jihocesky pohar. F1A, F1B, F1C World Cup. Entry fees senior: €45 / Junior €20. Contact: Rostislav Kvasnicka, 9. kvetna 442, 39102 Sezimovo Usti, Czech Rep., tel +420 608 059 803, fax: +420 381 292 017, email: r.kvasnicka@seznam.cz
April 6-9 Narrandera, NSW, Australia	Australian Free Flight Championships. F1A, F1B, F1C World Cup. Entry fees AUS\$ 30. Contact: Phil Mitchell, PO Box 44, Terrgial 2260 NSW, Australia, tel +61 24 38 43 217, em: filnoels@bigpond.net.au	May 5 Liptovsky Mikulas, Slovakia	Liptov Cup. F1E World Cup. Entry fees Senior €30 / Junior €20. Contact: Milan Valastiak, Vrbicka 1896, 030 01 Liptovsky Mikulas, Slovakia, tel +421 908 530 339, fax: +421 48 611 2668, email: mvalastiak@inmail.sk
April 17-21 Nalchik, Russia	Naloev Cup. F1A, F1B, F1C, F1P World Cup. Entry fees Senior €25 / Junior €15. Contact: Andrey Naloev, Shortanova str 17 a-57, Nalchik, Kabardino-Balkarian, Russia, tel +7 928 910 46 05, fax: +7 866 277 83 35, email: naloev@mail.ru	May 6 Liptovsky Mikulas, Slovakia	Nosko Memorial Cup. F1E World Cup. Entry fees Senior €30 / Junior €20. Contact: Milan Valastiak, Vrbicka 1896, 030 01 Liptovsky Mikulas, Slovakia, tel +421 908 53 0339, fax: +421 48 611 26 68, email: mvalastiak@inmail.sk
April 20-23 Vize – Kırklareli, Turkey	Istanbul Free Flight Cup. F1A, F1B, F1C World Cup. Entry fees €25. Contact: Mehmet Arslan, THK Inonu Egltim Merkezi, Inonu, Eskisehir, Turkey, tel +90 222 591 21 12, fax: +90 222 591 21 14, e: arslanthk@yahoo.com www.turkey-ff.info	May 12 Salonta, Romania	Szabó Miklós Memorial Contest of Hungary. F1A, F1B, F1C, F1Q World Cup. Entry fees €20. Contact: József Guti, Arany J. u. 47, 5700 Gyula, Hungary, tel +36 20 363 55 73, email: guti@fafem.hu web: http://faif1abc.com
April 21-22 Oberkotzau, Germany	2 F1E World Cup events. 21st: World Cup, 22nd Fohrlberg Cup. Entry fees €30. Contact: Peter Kuttler, Schneebergstr 26, 95145 Oberkotzau, Germany, tel +49 9286 61 87, email: peter-kuttler@web.de	May 12-13 Andover, United Kingdom	Stonehenge cup. F1A, F1B, F1C, F1P, F1Q World Cup. Entry fees €35. Contact: M J Woodhouse, 12 Marston Lane, Eaton, Norwich, Norfolk NR4 6LZ, United Kingdom, t+44 1603 457754, fax: +44 1603 457 754, e: mike@freeflightsupplies.co.uk web: www.freeflightsuk.org
April 21 Lucenec-Bolkovice, Slovakia	Novohrad Cup. F1A, F1B, F1C World Cup. Entry fees €30. Contact: Stefan Hubert, Malinovskeho 5, 98403 Lucenec, Slovakia, tel +421 905 147 105 or +421 47 433 213, email: gabika@hotmail.com	May 18-20 Kharkiv, Ukraine	Zmiev Cup. F1A, F1B, F1C, F1P World Cup. Entry fees €25. Contact: Mykola Kovalenko, Firm IDEA, Nesterova str 2, 61031 Kharkiv, Ukraine, tel +380 57 775 44 99 / +380 50 595 82 24, fax: +380 57 775 44 98, email: ideainfo@ukr.net web: www.flu.org
April 22 Lucenec-Bolkovice, Slovakia	City Cup of Lucenec. F1A, F1B, F1C World Cup. Entry fees €30. Contact: Stefan Hubert, Malinovskeho 5, 98403 Lucenec, Slovakia, tel +421 905 147 105 or +421 47 433 213, email: gabika@hotmail.com		

May 25-27 Aradac - Zrenjanin, Serbia	29th Srem Cup. F1A, F1B, F1C, F1Q World Cup. Entry fees €30. Contact: Radoje Blagojevic, AC Nova Pazova, Pinkijeva 10, 22330 Nova Pazova, Serbia, tel +381 63 252 064, fax: +381 22 323 597, email: aknovapazova@yahoo.com	July 20-22 Beauvoir-sur- Niort, France	Azay le Brulé Inter. F1A, F1B, F1C, F1G, F1H, F1J, F1K. Contact: André Trachez, 11 rte de la Balderie, 79370 Aigonnay, France, tel +33 6 08 57 35 50, email: andre.trachez@laposte.net,
June 23 Aradac - Zrenjanin, Serbia	45th memorial Djordje Zigic. F1A, F1B, F1C World Cup. Entry fees €30. Contact: Nikola Borovac, Jurija Gagarina 265, 1107 Novi Beograd, Serbia, tel +381 116163901, fax:+381 112625371 e: nborovac@eunet.rs	July 21-22 Borden, ON, Canada	Huron cup. F1A, F1B, F1C, F1Q World Cup. Entry fees CAN\$ 30. Contact: Tony Mathews, 2 Tralee Street, Brampton, Ontario L6Z 2X4, Canada, tel +1 905 840 2268, email: tmathews1@sympatico.ca web: www.torontofreeflight.org
June 23-24 Monti Lessini, Italy	2 F1E World Cup events. 23rd: 7th Coppa Primavera, 24th: 2nd Volare Lessini. Contact: Cesare Gianni, via Legnano 3, 10128 Torino, Italy, tel +39 338 5874 188, e: cesaregianni2@virgilio.it www.favli.it	July 26 St Jean de Sauves, France	Poitou - Moncontour. F1G, F1H, F1J.. Contact: Gerard Marquois, 16 rue Maxime Richonaud, 86330 Moncontour, France, tel +33 549 226 891, email: gerard.marquois@aliceadsl.fr web: www.vol-libre-moncontourois.fr
July 5 Rinkaby, Sweden	Swedish Cup. F1A, F1B, F1C, F1P, F1Q, F1G, F1H World Cup. Entry fees €30. Contact: Per Findahl, Fagerstavägen 25, 737 42 Norberg, Sweden, tel +46 223 22 957, email: per.findahl@telia.com web: www.norbergsfk.se/swedishcup	July 27-28 Pas de Jeu, France	35th Poitou 2012. F1A, F1B, F1C World Cup.. Contact: Michel Révéault, 1 ch. Du Grand Cornet, 79100 St Jean de Thouars, France, tel +33 5 49 68 01 55, email: mrevaault@orange.fr http://poitou-aero.com
July 6-8 # Kyiv, Ukraine	<i>The Commonwealth Cup of Belarus. F1A, F1B, F1C, F1P, F1G, F1H World Cup. Entry fees €25. Contact: Yaroslav Vasilyev, Gurskogo 44-3-31, Minsk, Belarus, tel +375 29 620 77 09, fax: +375 1750 52 960, email: zivdbox@bigmir.net web: www.F1U.org</i>	July 27-22 Mostar, Bosnia and Herzegovina	48th Mostar Kup. F1A, F1B, F1C World Cup. Entry fees €30. Contact: Robert Martinovic - Gordan Hribar, Stjepana Radica 76b, 88000 Mostar, Bosnia and Herzegovina, tel +387 63 455 631, fax: +387 63 455 654, email: E72x.gordan@gmail.com
July 6-8 # Krbava, Croatia	<i>FF CRO Cup. F1A, F1B, F1C World Cup.. Contact: Robert Lesko, Matije Gupca 4, 10290 Zapresic, Croatia, tel +38 59 590 61 550, fax: +30 51 33 57 976, email: mkz@mk-z.hr</i>	July 28 - August 5 Location to be advised, Slovenia	FAI Junior World Championships F1A, F1B, F1P. Contact: Janko Groselj, Kostjalova 22, 8000 Novo Mesto, Slovenia, tel +386 41 731 660 +386 040 873 363, email: janko.groselj@gmail.com
July 6-9 Rinkeby, Sweden	Danish Cup. F1A, F1B, F1C, F1Q World Cup. Entry fees €30. Contact: Henning Nyhegn, Industrivenget 28, 3400 Hillerod, Denmark, tel +45 60 77 7309, fax: +45 48 24 10 69, email: henning@nyhegn.com web: www.norbergsfk.se/swedishcup	August 4-12 Capannori (Lucca), Italy	FAI European Championships for Free Flight Model Aircraft. F1A, F1B, F1C. Contact: Cesare Gianni, Via Legnano 3, 10128 Torino, Italy, tel +39 33 85 87 41 88, email: cesaregianni2@virgilio.it web: www.ec2012italy.com
July 8 Rinkaby, Sweden	Norwegian Cup. F1A, F1B, F1C, F1Q World Cup. Entry fees €35. Contact: Atle Klunghaug, Jonsokveien 22, 1182 Oslo, Norway, tel +47 22 68 0205, fax: +7 947 75 970, email: aklark@online.no	August 6-7 Belgrade, Serbia	19th Dorcol Cup. F1D, F1L, F1M, F1R. Entry fees €40. Contact: Vojislav Stojkovic, Kralja Petra 70, 11000 Belgrade, Serbia, tel +381 11 218 64 43, email: aviomodeli55@yahoo.com
July 13-15 Kyiv, Ukraine	32nd Antonov Cup. F1A, F1B, F1C, F1P, F1G, F1H World Cup. Entry fees €25. Contact: Igor Zavgorodniy, Chaadaeva str 3-112, 03146 Kiyv, Ukraine, tel +380 44 405 38 33 / +380 50 242 07 57, email: zivdbox@bigmir.net web: www.F1U.org	August 8-13 Belgrade, Serbia	FAI World Championships for Free Flight Model Aircraft. F1D, F1D Juniors. Contact: Nikola Borovac, Uzun Mirkova 4/1, 11000 Belgrade, Serbia, tel +381 11 32 85 107, fax: +381 11 26 25 371, email: nborovac@eunet.rs
July 13-15 D'enver, USA	MMM 14-Rounder. F1A, F1B, F1C, F1E, F1P Juniors, F1Q World Cup. Entry fees US\$ 70. Contact: Chuck Etherington, 33946 Goldfinch Dr, Elizabeth, CO 80107, USA, tel +1 720 201 6218, fax: +1 303 646 3705, e: chuck.etherington@jeppesen.com web: www.themmmclub.com	August 18-19 Borden, ON, Canada	Canada Cup. F1A, F1B, F1C, F1Q World Cup. Entry fees CDN\$30. Contact: Leslie Farkas, 21 Misty Moor Drive, Richmond Hill, Ontario L4C 6P9, Canada, tel +1 905 886 6959, fax: +1 886 3025, email: aljolie@sympatico.ca web: www.torontofreeflight.org
July 15-21 # Ulaanbaatar, Mongolia	Asian FF Championships and Mongolia Cup. F1A, F1B, F1C, F1P, F1G, F1H, F1J World Cup. Entry fees €70. Contact: Chimed Ganzorig, PO Box 46/716, Ulaanbaatar 14201, Mongolia, tel +976 99086451, fax: +976 11322508, em: ch_ganzorig@num.edu.mn: www.masa.mn		

August 20-25 Turda, Romania	FAI European Championships F1E and F1E Juniors. Contact: Conu Marius, Sala Polivalenta cam 10 OP 6, Cp 56, Str Piscului nr 10, Sector 4, Bucuresti, Romania, tel/fax +402 13162454/ +40318 057471 e: conu@rdsmail.ro www.frmd.ro	August 31 - September 2 Sisak, Croatia	Siscia Cup. F1A, F1B, F1C, F1P Juniors, F1Q. Entry fees €30. Contact: Zoran Zechner, S. I A. Radica 3, 44000 Sisak, Croatia, tel +385 95 914 76 76, fax: +385 44 523 179, email: zoran.zechner@sk.t-com.hr web: www.aerodelarstvo.net
August 21 Turda, Romania	Memorial Popa Cringu. F1E World Cup. Entry fee Senior €30 / Junior €20. Contact: Conu Marius, Sala Polivalenta cam. 10, CP 56, Str Piscului nr 10, sector 4, Bucuresti, Romania, tel/fax:+402 13162454/+403 180 57471 e: conu@rdsmail.ro www.frmd.ro	August 31 - September 2 Turbia, Poland	Summer Cup. F1A, F1B, F1C World Cup. Entry fees Senior €30/Junior €15. Contact: Robert Radwanski, ul. Dmowskiego 7/19, 37-450 Stalowa Wola, Poland, tel +48 600 466 624, email: rradwan@wp.pl
August 24-25 Salonta, Romania	Salonta Cup. F1A, F1B, F1C, F1Q, F1H World Cup. Entry fees Senior €30 / Junior €20. Contact: Vincze Sandor, Str Republicii 92, Jud. Bihor, 415500 Salonta, Romania, tel +407 247 189 92, email: vinctesg@gmail.com web: www.frmd.ro	September 8-10 Berehove near Feodosia, Ukraine	Free Flight Holiday of Switzerland. F1A, F1B, F1C, F1P World Cup. Entry fees €25. Christoph Bachmann, Seestrasse 93, 8805 Richterswill, Switzerland, t+41 44 784 2333 chbachma@solnet.ch www.FIU.org
August 24-25 Ofakim, Israel	Negev Open - Israel free flight championship. F1A, F1B, F1C, F1P, F1G, F1H World Cup. Entry fees €20. Contact: Aviad Levy, Aeroclub of Israel, POB 26261, 61263 Tel-Aviv, Israel, tel +972 3 517 50 38, fax: +972 3 517 72 80, email: office@aeroclub.org.il www.aeroclub.org.il	September 11-13 Berehove near Feodosia, Ukraine	6th Black Sea Cup of Georgia. F1A, F1B, F1C, F1P World Cup. Entry fees €25. Contact: Anatoli Ribchenkov & Valeriy Kramarenko, Apt 64, 16 Chavchavadze Ave, 0179 Tbilisi, Georgia, tel +995 322 220 405 or +7 9185 148 987 +680 66 388 0240 +48 790 723 662 +380 44 234 89 50, fax: +995 5322 220 405, email: geoaerfed@yahoo.com web: www.FIU.org
August 25-26 Bosanski Petrovac, Bosnia and Herzegovina	Memorijal Izet Kurtalic. F1A, F1B, F1C World Cup. Entry fees €30. Contact: Malik Cabaravdic, Gornje Rosulje 3, 71000 Visoko, Bosnia and Herzegovina, tel +387 61 196 368, fax: +387 32 738 209, email: info@aeroklub-izet-kurtalic.ba web: http://www.aeroklub-izet-kurtalic.ba	September 14-16 # Berehove near Feodosia, Ukraine	Free Flight Holiday of Belarus. F1A, F1B, F1C, F1P World Cup. Entry fees €25\$. Contact: Yaroslav Vasilyev, Gurskogo 44-3-31, Minsk, Belarus, tel +375 296 20 77 09, fax: +375 17 50 52 960, email: slava.flc@gmail.com web: www.FIU.org
August 25 Madziunai, Lithuania	Hunt a max. F1A, F1B, F1C, F1P, F1Q World Cup. Entry fees €30. Contact: Vytenis Kudarauskas, 6-205 Buivydiskiu, 7193, Lithuania, tel +370 24 52 457, email: mase@inbox.lt web: www.balticcup.lt	September 14 Gliwice, Poland	Friendship Cup of Ukraine. F1E World Cup. Entry fees €30.0. Contact: Jan Wojtak / Sergey Samokish, Staromieska 65D, 44-109 Gliwice, Poland, tel +48 32 300 40 74, email: jan.wojtak@interia.pl
August 25 Kietrz, Poland	Kietrz Cup. F1A, F1B, F1C, F1Q World Cup. Entry fees Senior €30 / Junior €15. Contact: Piotr Szymanski, ul. Kosciuszki 2a/3, 47-400 Raciborz, Poland, tel +48 508 281 341, em: modelpiotrek@poczta.onet.pl	September 15 Toszek, Poland	Toszek Cup. F1E World Cup. Entry fees Senior €30/ Junior €15. Contact: Stanislaw Kubit, ul. Rybnicka 84, 44-100 Gliwice, Poland, tel +48 601 420 383, fax: +48 32 232 18 22, email: qbit@digip.pl
August 26 Turda, Romania	Cupa Turda. F1E World Cup. Entry fees Senior €30 / Junior €20. Contact: see August 21 Turda Cup.	September 15 Zlatibor, Serbia	Zlatibor Cup. F1E World Cup. Entry fees Senior €35 / Junior €25. Contact: Goran Timotijevic, Kraljevica Marka 12, 11000 Belgrade, Serbia, tel +381 63 313 700, email: aeroklubtim@aeroklubtim.com
August 28 - September 1 Samara, Russia	Mikhail Knyazev Memorial. F1A, F1B, F1C, F1P World Cup. Entry fee Senior €25 / Junior €15. Contact: Dzhamel Bekeyev, Airport smishlayevka 4-12, 443046 Samara, Russia, tel +7 927 702 20 71, fax: +7 846 299 28 74, email: bekeev@mail.ru	September 16 Toszek, Poland	Governor's cup. F1E World Cup. Entry fees Senior €30/ Junior €15. Contact: Marek Lysakowski, ul. Sienkiewicza 8/10, 47-400 Raciborz, Poland, tel +48 783 742 244, email: mlysakowski@poczta.onet.pl
August 30 - September 2 Zülrich, Germany	43rd Internationaler Eifelpokal 2012. F1A, F1B, F1C, F1P, F1Q World Cup. Entry fees €35. Contact: Peter Mönninghoff, Friedrich-Ebert Str 41, 58332 Schwelm, Germany, tel +49 23 367 248, email: info@eifelpokal.de www.eifelpokal.de	September 16 Zlatibor, Serbia	Pegaz Cup. F1E World Cup. Entry fees Senior €35 / Junior €25. Contact: Miroslav Stancevic, Hvezdoslava 139, Stara Pazova, Serbia, tel +381 65 215 14 77, email: miroslav.stancevic@pegazdoo.rs
		September 21-23 Levski, Bulgaria	Bulgarian Cup. F1A, F1B, F1C, F1P Juniors, F1Q World Cup. Entry fees €30. Contact: Valentin Savov, Tzar Osvoboditel str 58, Gorna Oriahovitsa, Bulgaria, tel +359 888 408 940, fax: +359 61 860 772, em: valio@dir.bg web: www.F1ABC.com

September 22 Zabokreký Hogo cup. F1A, F1B, F1C. Entry fees €30. Contact: Ivan Bezak, Zeleznicarska 249, 95852 Zabokreký nad Nitrou, Slovakia, tel +421 907 480 222, fax: +421 385 421 360, email: ivanbezak@hotmail.com web: www.aeromodelling.sk

September 22-23 Equinox Cup. F1A, F1B, F1C, F1P, F1Q World Cup. Entry fees €35. Contact: M J Woodhouse, 12 Marston Lane, Eaton, Norwich, Norfolk NR4 6LZ, United Kingdom, tel +44 1 603 457 754, fax: +44 1 603 457 754, email: mike@freeflightsupplies.co.uk web: www.freeflightsuk.org

September 22 9th Poitou Charentes. F1E World Cup.. Tourtenay, France Contact: Trachez Andre, 11 rte de la Balderie, 79370 Aigonnay, France, tel +33 60857 3550 em: andre.trachez@laposte.net

September 23 Poitou - Moncontour. F1E World Cup.. St Jean de Sauves, France Contact: Yvon Jallet, 17 rte de Mirebeau, 86330 Saint Jean de Sauves, France, tel +33 5 49 50 84 38, email: jallet.yvon@akeonet.com web: www.vol-libre-moncontourois.fr

September 29 Arva János Memorial contest. F1A, F1B, F1C, F1Q. Entry fees €20. Contact: János Arva, Scherer Ferenc u. 7, 5700 Gyula, Hungary, tel +36 20 363 55 73, email: guti@fafem.hu

September 29 Macedonia World Cup. F1A, F1B, F1C, F1P, F1Q World Cup. Entry fees Senior €25 / Junior €15. Contact: Todoroski Zdravko, Kej 4th July 1/5, 7500 Prilep, Former Yugoslav Rep. of Macedonia, tel +389 75 444 157 or 72 247 606, fax: +389 48 411 770, email: zdravkot@t-home.mk web: www.prilepcup.info

September 30 Prilep World Cup. F1A, F1B, F1C, F1P, F1Q World Cup. Entry fees Senior €25 / Junior €15. Contact: Todoroski Zdravko, Kej 4th July 1/5, 7500 Prilep, Former Yugoslav Rep. of Macedonia, tel +389 75 444 157 or 72 247 606, fax: +389 48 411 770, email: zdravkot@t-home.mk web: www.prilepcup.info

October 12-15 Sierra Cup. F1A, F1B, F1C, F1P, F1Q World Cup. Entry fees US\$ 45. Contact: Mike McKeever, 4252 Mockingbird st, Fair Oaks, California 95628, USA, tel +1 916 967 8475 email: vamckeever@aol.com

October 13-14 6th Trofea Città di Capannori. F1A, F1B, F1C, F1P, F1Q World Cup.. Contact: Cesare Gianni, Via Legnano 3, 10128 Torino, Italy, tel +39 33 85 87 41 88, em: cesaregianni2@virgilio.it www.favli.it

October 19-21 Krka Cup. F1A, F1B, F1C, F1Q World Cup. Entry fees €30. Contact: Dragan Stankovic, Smarjeska 44, 8000 Novo Mesto, Slovenia, tel +386 41 860 91, email: aeroklubkrka@siol.net web: http://borut.mojforum.si

November 3-4 9th Philippe Lepage. F1A, F1B, F1C, F1G Arzay - Bossieu, France World Cup.. Contact: Laurent Thévenon / JP Challine, L. Boissy, 74930 Arbusigny, France, tel +33 4 5003 1023 or +33 169 88 8912 email: thevenon.laurent@wanadoo.fr

November 4 Zapresic Indoor Open F1N. F1N. Entry fees €10. Contact: Robert Lesko, Matije Gupca 4, 10290 Zapresic, Croatia, tel +385 95 906 1550, fax: +305 133 57 976, email: mkz@mk-z.hr

December 1 2nd Cup of Fair Cities - Trophy of Belgrade 2012. F1N. Entry fees €15. Contact: Nikola Borovac, Juriša Gagarina 265, 11070 Novi Beograd, Serbia, tel +381 11 616 39 01, fax: +381 11 26 25 371, email: nborovac@eunet.rs

## NEWS FROM BMFA FF TECH COMMITTEE

### FFTC Meeting

The FFTC met on 2 November 2011 and the following are notes on items of interest:

### FFTC Committee

Following the recent election the ongoing committee for 2012 is as follows:

Mike Woodhouse, Chris Strachan, John Carter, Trevor Grey, Phil Ball, Mike Francies, John Huntley and Peter Williams. Ian Kaynes is non-voting F1E representative.

### 2012 Team Selection Entry Fees

The entry fees for the 2012 team selection events to choose a team for the 2013 World Championships have been considerably reduced. Entry will be pre-entry only with an inclusive fee of £25 which must be submitted before the 2<sup>nd</sup> of June. This will cover both weekends and include all three classes so those who fly in more than one class will save considerably. Please note that late entries will not be accepted.

### CD Gratuities

In future CDs for non-area events will be offered a gratuity rather than expenses. This will be £50 per day. At the Nationals an assistant CD will be offered a gratuity of £25. This change recognises that individuals have different journey and overnight requirements and often CD on one day and compete on another. Also it has been noted that many CDs do not at present claim any expenses.

### Rule Changes

A list of Free Flight Rule changes for 2012 has been published and is available from the FFTC (too lengthy to include here).

## F1H EURO CHALLENGE 2011

Points over 14 European competitions.

1	T Weimer	GER	19	5	B Bernard	FRA	11
2	O Illesi	HUN	18	5	M Siklosi	HUN	11
3	G Bernard	FRA	16	7	K Varro	HUN	11
4	T Szteblak	HUN	15				

## NOTICEBOARD

WANTED. Nelson 41 free flight motor crankcase or complete motor with rear mount. Contact Trevor Payne on 01604 648197 or write to 92 Coppice Drive, Parklands, Northampton, NN3 6NF



## AEROLOOP

Martin Dilly supplied this advert but does not report any experience of the device. In case the text does not reproduce well, the web site address is [www.aeroloop.co.uk](http://www.aeroloop.co.uk)

**Aeroloop™**  
The Model Plane Retriever

The Aeroloop model plane retriever is exclusively designed by us to safely retrieve your model plane from up to 30ft away and return them safely to the ground without any further damage. An essential piece of kit for every model plane flyer!

*Don't lose your Pride and Joy stuck in a tree ever again!*

**ONLY £29.99**

Features:

- Suitable for all sizes of model plane.
- Extendable design collapses down to 1m when not in use.
- Easily fits in your car boot
- Supplied in embossed heavy duty cloth bag with velcro closure.
- Full instructions included.
- **Full - 'Money Back' guarantee if not delighted.**

24 hour post and packing - £6.95

Order Hotline: 01803 -214608 (mon-fri 9-5pm)

Exclusive distribution by Aeroloop Ltd  
More Information: [www.aeroloop.co.uk](http://www.aeroloop.co.uk)

*"Brilliant"*  
RCME - February 2011

## BMFA FREE FLIGHT FORUM

Report by Michael Warren and Ian Kaynes

The first presentation of the day was "Anodizing" by **Simon Dixon**. He explained that the benefit was a hard coloured surface that protects against corrosion, but it does not hide surface blemishes. He listed the equipment and chemicals needed, which include caustic soda, and diluted sulphuric and nitric acids. Simon then described the full process through cleaning, connecting and loading in the anodising bath, dyeing and fixing.

**Paul Seeley** gave an entertaining talk on pistachios, scale models weighing 3 grms and with 8 inch wing spans. He made the point that high-wing design are easier to make and fly and it's necessary to increase tail areas by up to 25/30% and to add a little dihedral and c. 1/32 inch decalage.

To the surprise of some, he uses model shop balsa and PVA glue, despite the weight they add. Seeley made the point that he's happy with 30 second flights or thereabouts but isn't going for the longest possible durations. Pistachios, for him, are a wintertime relief from the different challenges of outdoor flying.

Magnetic boards are used for building these delicate models, with tiny and flexible acupuncture needles also being helpful in building with very small cross-section wood. (Mike Woodhouse mentioned that taxidermists also supply useful needles far thinner than those we usually use for building

models.) Seeley also outlined techniques for making and rigging props, for noseblocks and sidethrust, covering, decorating and trimming.

Invigorators was the subject addressed by **Neil Cliff**. He started by describing flow in the boundary layer and the basic situation that laminar flow could give minimum drag but is difficult to maintain. He quoted work on invigorators by Pfenniger and experiments by Pressnell (so dependent on to the detail conditions in the wind tunnel). Neil finds that invigorators aid stability in turbulent conditions and is now using them on an F1G with AA29 section. He concluded by noting that the size of boundary layer trips used in wind tunnel tests scales to 0.15mm in our application, but without putting that in perspective by adding that the size used in wind tunnel tests generally has no more foundation than our guessing what size to use.

**Paul Seeley** then returned to talk about printing tissue for his scale models. He uses Esaki tissue as lightest and more suitable for his models and prints on an inkjet printer. Paul sticks the tissue to backing paper with 3M spray, removing some of adhesive before using. The draft setting on the printer uses least ink and so minimises smudging. One problem is that the ink is water soluble. Laser printing gets around this but with a different problem of mounting the tissue for printing.

**Alan Jack** described 10+ years work with electric timers. After outlining the basic development sequence he went on to explore why it has been worth all the work. Firstly, of course, because it gives you an exact time, not least for motor runs. Also, the times you need are defined as numbers, not as positions on a disc (as with mechanical timers), it's reliable and, in any case, *'playing with new systems is fun... and it's a lot easier than some people think'*.

As an aside, but a significant aside, Jack suggested – indeed, asserted – that the better known the F1C flyer the shorter his motor runs will be timed. This led to a slightly peripheral discussion about the practicalities of motor run timing which didn't cover much fresh ground except for the possibilities inherent in new electro-technology.

Turning to the lessons that had been learned, Jack suggested that systems should be kept as simple as possible, proprietary packages should be avoided (*'...keep to the hobbyist market...'*) and don't over-specify. Failures over the years, not least vibration-related and with batteries, were discussed with great honesty. Vibration is particularly severe with geared motors and calls for soft mounting of servos and using blobs of glue or foam to damp vibrations.

**Mark Benns** reviewed Britain's recent experiences at World and European F1D Championships. Amongst the findings have been that the top three flyers at the latest World Champs used thinner rubber (1.28 grms unlubricated) than the Brits at 1.4 grms. Similarly, they had between 52-54 rpm, against the British 46/47. Some models' covering is significantly better than the British, though equally some successful flyers have models with no more than average quality covering. However, the good news is that the British were well within reach of the top group, being on average only a minute or thereabouts behind them, and – perhaps less crucial – we are the best at steering, probably because of our Cardington experiences.

Currently the British are limited to flying in 25 ft sports halls, as opposed to the 90ft site in Belgrade, which means that



testing must involve quarter-length motors – not ideal but currently unavoidable. At the same time, work with thinner motors, slightly larger props and perhaps more attention to model covering will be undertaken. Also, there is evidence that Super Sport rubber is now increasingly competitive, with even the best of Tan II showing its age.

Full details of Benns' talk, and of course all the others, will be given in the published papers next year.

**Neil Cliff** appeared again, this time to talk about F1G construction. Sample features were that he leaves his balsa booms for at least a month to stabilise and builds his wings on a shaped foam building board which is covered with veneer. He had a wing covered with 5 mylar but said that 10 was more practical for a wing. A wing was shown which included a wing tip, as yet untested.

**Ivan Taylor** broke new ground with a talk on the use of simple brown paper tape – the sort used to wrap parcels or in picture framing – for making or reinforcing model parts. The tape is sold backed with water-based adhesive and sticks to balsa though not plastic or carbon. It is easy to use and is cheap.

Taylor has tried it for F1B fuselage tubes and booms, for propeller blades (1/32 balsa top and bottom with layers of tape in between), to reinforce ribs and as capping strips. It needs waterproofing with shrinking dope, acrylic paint or varnish but is felt to be broadly competitive as far as weight is concerned. It was accepted that using tape does not give the rigidity of carbon or Kevlar but Taylor felt that in the trade-off between cost, ease of use and function, it has much to commend it.

**Chris Strachan** gave a talk 'to encourage more people to try the electric classes'. In his exploration of the newish methodology, he acknowledged the value of Tony Shepherd's article in the 2010 Forum report. Overall his findings have been that there is some inconsistency in the power/model combinations, that there is a need for more power ('...but that's always true...') and that it wasn't as hard as he had feared. In addition, it has the advantages that it's clean – no oil – it's fun, and that it's silent and opens up the possibility of finding new trimming sites.

Strachan outlined the three classes, E30, the BMFA electric class (which is open to change if the current specs prove fallible), and F1Q. He noted that an additional plus in this field that as a relatively new methodology there are many opportunities for further development.

Under the title of "Rice pudding skin pullers - 2011 rules for E30" **Peter Tolhurst** talked about E30. He described the effect of the 2011 rule change of a 60 sec run limit, changing the class from very low climb to slightly more power. Peter discussed motors and noted that brushless motors had not yet given better performance than the geared GWS brushed motor. There seems little difference between the performance with fixed or folding props.

**Editors' note:** This year's Free Flight Forum, though undoubtedly interesting and useful, had problems. At events like this there is a trade-off between over-formality and something near subdued chaos, but we think these sessions could be improved. A few thoughts for discussion...

Firstly, each speaker should have an agreed amount of time, should stick to it – which means they have to rehearse – and be stopped if they significantly over-run. (This year, sadly, there was a major over-run and the final speakers were left with a much-reduced audience as people had to leave for home.) We are not suggesting that every speaker should be allocated the same amount of time: some papers are rightly longer than others and this is a matter of negotiation in advance between speaker and chairman.

Secondly, passing round examples of work during the talks – wings, props or whatever – can be useful but if there is too much of it, it tends to distract from what is being said and encourages impromptu and sometimes noisy chats amongst the audience. This is unfair both to the speaker and other members of the audience.

Thirdly, should questions be taken during the talk or at the end of it? It probably doesn't matter but the speaker should make it clear in advance what the rule is – during or after – and stick to it. Equally important, some combination of speaker and chairman should limit questions to those directly relevant to the paper and there should be a limit to the time allowed for questions.

Fourthly – and luckily this is rare – there have been occasions in the past when speakers have in effect been heckled in mid-talk and more or less told to shut up. Aside from anything else this is discourteous and should not happen. In such cases, the speaker should be allowed to finish their talk and then accept relevant questions that the audience, of course, has a right to ask. (But note they *should* be questions, not statements.)

Lastly, technical matters such as the clarity of visual aids should be sorted out in advance. It became particularly painful when random selection of the next slide was needed from a range of individual pictures.

## MIDLAND GALA, North Luffenham, Oct 30

Wind 7 to 12 mph light at fly off

### Mini Vintage 12 flew

1	J Foster	Morley	6.00	+4.20
2	P Ball	Grantham	6.00	+3.45
3	C Foster	Morley	6.00	+2.55
4	F Rushby	CLEEMAC	6.00	+2.45
5	M Howick	Vikings	6.00	+2.33
6	RJ Foster	Morley	6.00	+2.26

### F1H 9 flew

1	J Cooper	Biggles	8.32
2	B Lavis	Biggles	7.74
3	C Parry	Biggles	7.30
4	S Heap	Biggles	5.56

### F1G 7 flew

1	S Willis	Croydon	9.23
2	A Moorhouse	Vikings	9.13
3	T Grey	Crookham	8.38

### F1J/1/2 A 7 flew, 3 F/O

1	M Lester	B,ham	10.00	+4.37
2	P Watson	B,ham	10.00	+3.59
3	P Woodhouse	Morley	10.00	+1.55

### HLG/CAT 7 flew

1	P Cowley	Grantham	6.52
2	S Brewer	Biggles	5.21
3	P Ball	Grantham	5.10

### E30 6 flew

1	A Shepherd	Crookham	6.00	
2	C Strachan	Biggles	5.47	
3	S Philpot	B,ham	5.41	+2.03
4	P Lang	mffg	5.41	+1.17

### P30 4 flew

1	T Bailey	Grantham	4.45
2	S Willis	Croydon	4.44
3	M McHugh	P,boro	4.09

### SLOP 4 flew

1	S Barnes	Morley	7.30	4.22
2	C Foster	Morley	7.30	3.07
3	D Cox	Crookham	6.18	

### CO2 2 flew

1	C Strachan	Biggles	6.00
---	------------	---------	------

To complete the statistics published in FFn last month here is the table of the number of competitors per country, only those scoring points in 2 or more events:

**BMFA 8TH AREA MEETING, OCTOBER 16**

In the individual results S Brewer's flyoff time had been entered as his total flight time. When corrected to be his flyoff time he moves in to 7th place and everyone who was at 7th or below in the results in FFn last month move down one place. Plugge scores have been adjusted.

R Marking's score shown in FIG last month was actually an FIQ score. This increases the number of flyers in FIQ from 6 to 7 but without changing the top 3 results which were printed in November FFen. The corrected FIG results are as follow:

1	Neil Allen	East Grinstead	10.00	+2.13
2	A Moorhouse	Vikings	9.24	
3	J Patton	Oxford	9.17	
4	E Challis	Crookham	9.03	
5	J Minshull	Brighton	8.42	

Points have changed but order remains the same

1	Bristol & West	3066	9	Cleemac	800
2	Grantham	1908	10	Croydon	775
3	Crookham	1900	11	Timperley	720
4	Birmingham	1843	12	Crawley	663
5	Morley	1688	13	East Grinstead	568
6	Biggles	1599	14	Hayes	429
7	Vikings	1066	15	NWFFG	423
8	CVA	1048	16	Scotia	379

By Jim Moseley

One more entry for the event than last year (20 flew) though the 'mix' of names has changed a little; some 'lost' and some gained. Hopefully all will return for the 2011/12 event (already in progress) and please do encourage others to submit flight times – there are an awful lot of Senators 'out there' that it would be good to have in the fold.

Mia Dixon was again the sole entrant in the Junior category, her flight scores also winning the Junior event at the British Nationals in conditions which deterred many more mature fliers. Well done, Mia!

Participants have already received details of the 2011/12 event which is already underway, closing June 30<sup>th</sup> 2012, but any other reader wishing details – please contact me at the email [jjmoseley@look.ca](mailto:jjmoseley@look.ca). It would be appreciated if supporters could provide some general details with their scores and photographs are always welcomed. The subject might be similar in this instance but the approach to trim and colour schemes, backed up with personalities is always of general interest.

British participants reported the following:

Jeff Newton (168 sec) Due to domestic priorities, my Senator was not finished until mid-May. First trimming flights were made on the evening of 2nd June, on the beach at Lytham St. Annes, Lancashire. Three timed flights were made, working up to 500 turns on the last one, which resulted in a power stall, hence the poor time. I was unable to make further attempts due to weather/tide/domestic constraints, so this is the best I can do this year.

Simon Dixon (for daughter, Mia, age 11, 141 sec). The flights were made at the British National Championships at RAF Barkston Heath on 28.05.11 in the junior event. The weather, as last year was poor - 15 to 20 mph turbulent wind, cold and a bit damp at times. She persevered very well in the conditions and was rewarded by winning the event.

1	Joshua Finn	USA	120	120	120	180	107	647
2	Bernard Guest	CAN	120	120	120	175		535
3	Jim Moseley	CAN	120	120	120	165		525
4	Howard Gostelow	AUS	120	120	120	142		502
5	Ole Torgersen	NOR	106	120	120			346
6	Neil McDougall	NZL	120	104	120			344
7	Caley Hand	USA	111	108	120			339
8	Ding Zarate	USA	120	120	95			335

## WORLDWIDE POSTAL COMPETITION 2011/12

The purpose of this postal contest is to encourage friendly participation between aeromodellers worldwide with the prime emphasis being on low-key, leisurely flying without the pressures of 'regular' competition. A wide variety of events are offered including classes for types and sizes of models which have been overtaken and/or outclassed by modern developments or are perhaps too small to be considered for 'serious' competition work, such as 20" and 25" Rubber and Cloud Tramp, many of which can be flown at any time on smaller local sites without the necessity of travel to more formal contests at larger areas.

Flights may be made outdoors between July 9th. 2011 and June 30th. 2012 inclusive; it is not required that all flights in any event be made upon the same day but each is to be pre-nominated as 'official'. The general format (with exceptions as noted) is for three or more flights to the specified maximum; after three (or more) maximums further flights will be made to a score increasing by increments until the model fails to reach the duration target for that flight. The final score will be the total of all flights, recorded in seconds; the purpose of this scoring system is to reduce the possibility of models being lost in an 'unlimited flyoff' and as flights may be made at any time within the contest period it does not entail unduly arduous flying sessions to complete same. In classes where maximum sizes are established, the span shall be measured as per plan, not as 'projected span'.

'Vintage/Oldtimer' classes are for designs authenticated to have been flying outdoors prior to December 31<sup>st</sup>. 1950, even though plan publication may be of a later date in any kit, commercial magazine, SAM publication, club newsletter, etc

Multiple entries with different models may be made in all events but flights in one event may not be 'doubled up' with any other class for which a given model is eligible – separate flights, please.

The 20" Rubber class is to encourage the flying of all such models designed for outdoor use and not usually considered competitive against larger designs. There is no restriction on publication or production date and all designs 'published' in/on freely available sources i.e. newsletters, websites, etc are acceptable provided such source and/or details are made available to others.

To maximise flying opportunities there is ample scope for rubber models and gliders to be flown in multiple events and you are encouraged to take stopwatch, pencil and notepad with you each time you go to your local field, or to a contest, as an added incentive to your flying enjoyment. Bear in mind, also, that any number of individual models may be flown in any event for which they are eligible.

A full report will be forwarded to each entrant by mail or e-mail as appropriate. To assist in the compilation of same a brief account of weather, site, flying anecdotes, photographs, etc. would be appreciated when scores are submitted. Please ensure that all scores are forwarded to arrive by July 15th 2012 as I have limited time thereafter to collate, print and distribute results; earlier submissions would be most gratefully received! I welcome any comments regarding amendment to any event rules that might make same more attractive, or suggestions for other classes that might be considered of general interest in any future Contest.

Please advise if you have an Email address; transmission of entries/scores/reports/results to me by this means helps to reduce overall costs, eases communications and enables wider distribution of submitted photos. Please return your entries to:-

Jim Moseley, 19 Banner Crescent, Ajax, Ontario L1S 3S8, Canada, tel: +1 905 683-3014, email: [jjmoseley@look.ca](mailto:jjmoseley@look.ca)

### Events:-

20" Rubber For any published outdoor designs not exceeding 20"/51cm span. Three flights to 60 second maximum followed by 30 second increments thereafter.

25" Rubber Any models up to 25"/63.5cm span. Three flights to 60 second maximum followed by 30 second increments thereafter.

30" Vintage/Oldtimer For designs pre-1951, not exceeding 30"/76cm. Three flights to a 90 second maximum followed by 30 second increments thereafter.

42" Vintage/Oldtimer For designs pre-1951, with spans greater than 30"/76cm but not exceeding 42"/107cm. Three flights to a 120 second maximum followed by 30 second increments thereafter.

P30 Rubber Standard P30 rules. Three flights to 120 second maximum followed by 60 second increments thereafter. No gears or movable surfaces, other than for d/t operation.

Freewheel Rubber Any published outdoor design with a freewheeling propeller is eligible, wing span not exceeding 36"/91cm. Three flights to 90 second maximum followed by 30 second increments

Unlimited Rubber Any rubber model with wingspan not exceeding 42"/107cm. No auto surfaces. Three flights to a 120 second maximum, followed by 60 second increments thereafter.

KK 'Senator' A one-design class for this popular design. Three flights to 120 second maximum, followed by 60 second increments thereafter.

**Cloud Tramp** Any version of the Cloud Tramp design as published. 8" prop (plastic OK), any type of prop bearing. Five flights, no maximum; longest and shortest will be discarded and balance totaled for score.

**Towline Glider** Any glider, straight tow only with no moving surfaces other than autorudder. Maximum towline length 164/50 metres; Equivalent high start launch systems permissible. Three flights to 90 second maximum followed by 60 second increments.

**Small Towline Glider** Any glider to a maximum span of 40"/101.5cm, straight tow with no moving surfaces other than autorudder. Maximum towline length 164/50 metres. Equivalent high-start launch systems permissible. Three flights to 60 second maximum followed by 60 second increments.

**Catapult/Handlaunch Glider (small)** For any glider with wingspan no greater than 12"/30.5 cm. Six flights, 60 second maximum (flights under ten seconds need not be reported). If six maximums scored, 30 second increments thereafter. Catapult - a 9" loop of 1/4" flat rubber attached to a 6" handle. Multiple entries permissible.

**Catapult/Handlaunch Glider (large)** For any glider larger than 12"/30.5cms. Rules as above.

**Tip-launch Glider.** For any size of wingtip-launch glider. Folding wings and R/C are not permissible. Six flights to a 60 second maximum, increasing by 30 second increments thereafter.

## BMFA FREE FLIGHT CHAMPIONSHIP

	Midland	Total			
1 P Ball	10	188	15 P Watson	6	44
2 C Strachan	8	99.5	16 R Heap	2	39
3 C Foster	7	97	17 N Allen		35.5
4 A Shepherd	9	75.5	18 P Woodhouse	4	35
5 S Willis	12	74	19 J Odonnell		34
6 J Cooper	9	64	20 A Jack		32
7 T Grey	6	63.5	21 A Gibbs		31
8 J Foster	9	61	22 J Carter		28.5
9 P Seeley		51	23 S Brewer	6	27.5
10 D Cox	2	50	24 R Vaughn		27
11 P Tolhurst	3	49	25 C Redrup		26.5
11 M Lester	9	48	26 S Dixon	3	26
13 C Chapman		47	27 G Stringer		25
13 F Rushby		47	28 R Foster	1	24

## INDOOR RECORDS

FAI has received the following World record claims:

**Open Indoor Duration** (ceiling less than 8 m) no. 115-a 39 min 53 sec by Kazumasa Kihara (Japan) at Kanagawa (Japan) on September 6 2011. The current record : 39 min 19 sec set by Robert Randolph, USA on January 21 1996.

**F1D Indoor duration in competition**, one flight no.119 37 min 15 sec set by Ivan Treger (Slovakia) at Beograd (Serbia) on August 11 2011. There is current record of this type. And then another claim for the same record for 38 min 01 sec by Ivan Treger at Beograd on August 13 2011.

**F1D Indoor duration in competition**, two flights no. 120 70 min 52 sec by Ivan Treger at Beograd on August 13 2011. There is current record of this type.

**F1D Indoor duration** (ceiling 15m - 30m) no. 125-c 38 min 01 s by Ivan Treger on August 13 2011. The current record is 36 min 23 sec set by Ivan Treger on August 22 2008.

The details shown above are provisional. When all the evidence required has been received and checked, the exact figures will be established and the record ratified (if appropriate).

FAI has ratified the following World records:

**F1N Indoor Glider Duration** (ceiling over 30m) no.118-d.1 min 45 sec by Stan Buddenbohm (USA) at Tustin, CA (USA) on October 31 2010. The previous record was 1 min 41.2 sec by Mitsuru Ishii, Japan on September 10 2008.

And then.....

**F1N Indoor Glider Duration** (ceiling over 30m) no. 118-d 1 min 49 sec by Mitsuru Ishii (Japan) Ishikawa (Japan) on March 19 2011. The previous record was, of course, 1 min 45 sec set by Stan Buddenbohm (USA) on October 31 2010.

## LULU 2011 INTERNATIONAL POSTAL COMPETITION

Report by Jane Howick

This past season has been a difficult one for free flight with high winds coinciding with when flying sites were available - even Italy experiencing similar conditions. One week into October we only had six entries in hand, but the last two weeks of that month saw Lulus taking to the air in droves all around the world! Next year will be even better when all the Lulus we know are being built take to the air. This year was remarkable how close were the top three scores, each of whom were probably slightly miffed they did not do a higher flyoff time but it mattered not one jot in the end.

Reg Kinsey who was also last years winner takes top honours again with consistent flying. Richard Barlow in second place flew at Geneseo in warmth and strong thermals, But hit the associated sink in his flyoff to miss winning by one second which is a bit galling anytime. Jim Moseley who was assisting him had flown earlier in the year at the same venue but in less favourable conditions and the wished he had waited. Newcomer to the Lulu postal Pavel Rabek took third place. It was a pleasure to get three entries from Slovakia this year - conditions there in mid-October being just perfect. Kazimir aged 72, Pavel 48 and Oliver at 14years showing how all ages can have fun flying Lulus. Roger and Sam Heap were using tip up wing DT - very effective but they found the need for strong bands to avoid the wing tipping up on tow. Long time Lulu supporter Andy Crisp managed to find time on his 44th. wedding anniversary to complete his flights - congratulations and for your dedication to the Lulu cause.

In Italy Curzio Santoni also had to wait until mid-Oct. as previous attempts by his small band of Lulu lovers to fly at L'Aquila (1600mtrs. above sea level) were thwarted by high winds. Only Curzio was available at a later date flying on a field a mere 850mtrs. above sea level. So of necessity he persuaded his wife to help him for the first time in 20 years and to his delight found she was a natural launcher and helper - perhaps next year she could also fly in the competition. Graham Percival kept to his usual schedule of flying on the last Sunday in the last hour or so of daylight. To speed things up he left his towline out ready for the last flight only to find on his return in the increasing gloom that those mysterious gremlins had turned it into a ball of spaghetti. However as the sun dipped below the horizon he got a good last flight in.

27 flew

1 R Kinsey	GBR	270+62	7 K Korgo	SVK	252
2 R Barlow	CAN	270+61	8 V Driscoll	GBR	243
3 P Rabek	SVK	270+58	9 S Heap (J)	GBR	242
4 J Howick	GBR	265	10 I Hibbert	GBR	238
5 R Heap	GBR	258	11 B Taylor	GBR	232
6 D Truluck	GBR	256	12 A Crisp	GBR	230

## UK COMPETITION NEWS

**CROOKHAM GALA.** It's Middle Wallop on 12 Feb. The classes are Combined Power, Combined Glider, Coupe d'Hiver and Mini-vintage. Start time is 10 o'clock. Contact is Roy Vaughn tel 01344 779071 roy.vaughn@btinternet.com. Note that the date is provisional pending confirmation by the MoD.

