



Airtime

Summer 2018



Inside:

- CAA Height Limit Statement
- GDPR Documentation
- Falkirk Upgrade
- Fly-in Reports

**Also available as a free download with
working hyperlinks from www.saaweb.co.uk**





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Front Cover Picture: 68" E-flite Super Cub 25e from the Platinum series. Turnigy G32 600kv Electric Motor, 70 amp speed controller. Power provided by 4s lipo. Seen here at Cumbernauld.

Chairtime

Here we are again and another “Chairtime” is upon us. I thought when I stepped up to the plate to become the acting Chairman that I would just be steering the association along till the next AGM. This year has turned into one of the most challenging since I joined the council in 2013. This year we have had the changes in the data protection act which has impacted all of us however the council took the changes to GDPR by the horns and we have dealt with the situation. We also have had an amendment to the ANO which is having a detrimental impact on all of us, the most obvious is the imposition of a 400ft AGL limit. I have reported on this below.

I would like to thank the council for all their hard work and I hope all the clubs have received the template documents to assist in their compliance with the GDPR rules but if any club hasn't received them can you please contact the secretary to have them sent on.

On the 15th June I attended a meeting at the DfT in London with the BMFA, LMA and FPVUK. This meeting was to discuss the imposition of a 400ft height limit for all model aircraft including drones. The discussions were a bit lively as the CAA lawyer was part of it and we had to put forward our case to have this ruling changed. The best we can achieve has already been sent to all club secretaries and there are still issues with the ANO which are still being addressed. You will also find the information releases about the ANO amendments and the relevant documents regarding the GDPR rules in this issue.

I would like to ask all clubs to ask within their members if we have any people who would be interested in becoming members of the SAA council. We are asking in plenty of time for new people to have the chance to ask any questions they may have about jobs on the council. We will be looking for a Chairman, Secretary, CD's rep and Club Liaison officer. If you are interested please contact us through the secretary at sec@saaweb.co.uk.

Happy flying and long may it continue.

Jim McGlynn

Statement from the DfT meeting on Friday 15th June:

The latest meeting between the Department for Transport (DfT), Civil Aviation Authority (CAA) and representatives from the UK Model Flying Associations took place this afternoon at the DfT offices in London.

The most urgent matter to address was the recent change to the Air Navigation Order (ANO) which introduced (in Article 94A) a 400ft height limit on the operation of all Small Unmanned Aircraft (SUA) which will come into effect on the 30th July 2018. Whilst the changes to the ANO are largely aimed at regulating 'drones', the 400ft restriction will also apply to model aircraft below 7Kg.

However, we are pleased to report that agreement was reached that the Model Flying Associations will collectively apply for an exemption from Article 94A to allow their members to continue operating model aircraft below 7Kg above 400ft as they do under the current ANO. The DfT and CAA were supportive of this course of action and did not foresee any reason why the exemption would not be in place in time for the 30th July.

Negotiations on the other changes introduced in the ANO, namely operator registration and pilot theory testing remain ongoing, but for now it is business as usual for members of the BMFA, LMA, SAA & FPVUK.

Scottish Aeromodellers Association – Privacy Policy

1. Privacy Policy

At the Scottish Aeromodellers Association (SAA), we are committed to respecting your privacy and protecting your personal information.

This Policy explains why and when we collect personal information about People who join, volunteer or consume services from our Association or from our website or by whatever means.

How we use the information, the conditions under which we may disclose it to others, how we keep it secure and your rights in relation to your personal data.

The SAA have **not** appointed a Data Protection Officer to oversee our compliance with data protection laws as we not required to do so, however contact details have been provided throughout this policy should you wish or need to contact us regarding data protection issues or compliance within SAA.

As a living document this Policy may change over time, please check the web-

site at www.saaweb.co.uk to ensure access to the most up to date version and that you are still happy with any changes that may have been made.

By becoming a SAA member, you are agreeing to be bound by this Policy.

Any questions regarding this Policy and our privacy practices should be sent by email to **sec@saaweb.co.uk** or in writing to; **SAA Secretary, Scottish Aeromodellers Association,
66 Well Road, Glenrothes, Fife. KY7 5DS**

2. Who Are we?

The Scottish Aeromodellers Association (SAA) was formed over seventy years ago providing a Non-Profit Scottish body dedicated to the maintenance and support of the internationally recognised sport encompassing all model flying disciplines.

The SAA exists as an Association of Scottish Aeromodelling Clubs and provides a variety of services, events, competitions and knowledge base for its members.

The SAA is affiliated to the British Model Flying Association (BMFA), allowing clubs and members access to a great number of publications relating specifically to aeromodelling in the UK and internationally through the BMFA's affiliation to The Fédération Aéronautique Internationale.

3. How do we collect information about you?

We collect information about you when you become a member of the SAA in person or through an affiliated club.

We may also collect information either in person, via telephone, online or through an affiliated club when you take part or participate in;

- SAA Achievement & Certification Scheme
- SAA Competitions & Events
- Requests for SAA Funding & Support

4. What type of information is collected about you?

The personal information we collect may include your;

- Name, Address, Email Address, Telephone Number, Date of Birth and Competency Awards related to model flying.
- If you join the SAA, purchase a product or enter a contest and pay for the services via an electronic/online Bank Payment (FPI, TFR, BP etc) directly to the nominated SAA Account, a record of your payment, as supplied by the SAA's current banking provider, will be held by as part of our

Financial Records.

- If you receive funds from the SAA a record of any transaction will be held by the SAA as part of our Financial Records.

5. The legal bases for the processing of your personal information are as follows

- To enable the SAA to fulfil our “Contractual Obligations” in the provision of membership services and insurances.
- To enable the SAA to fulfil our “Legal Obligations” to manage and maintain financial records.
- By providing your “Consent” the SAA further provide information and publications on Safety Code & Achievement Scheme, relevant changes to legislation, guidance and support, information on events and competitions, newsletters on the activities of the SAA and areas of interest to the affiliated clubs and members.

6. How is your information used?

We may use your information to:

- Process your membership
- Carry out our obligations arising from your membership
- Process entries to contests and events
- Process enquiries or orders that you have submitted
- Process requests for support and or funding
- Seek your views or comments on the services we provide
- Notify you of changes to our services
- Provide communications which you have requested and that may be of interest to you.

These may include information about SAA events and contests, government regulation changes that affect model aircraft flying and other SAA related news.

7. How long do we retain your information?

We will hold your personal information on our systems for as long as is necessary to carry out, contractual obligations in relation to your membership, legal obligations in relation to financial records or as long as is set out in any relevant agreement between us. Where an individual’s SAA membership lapses your information will be retained securely for a period of 5 years for the purposes of maintaining Achievement Scheme records, Financial records and SAA historical accuracy after which your information will be deleted.

8. Who has access to your information?

- We will not sell or rent your information to third parties.

- We will not share your information with third parties for marketing purposes.
- Where a SAA Affiliated Club participates with the SAA as a “Joint Data Controller” we will share information for the purpose of completing tasks and providing services to you (for example processing new SAA member applications, processing SAA member renewals, updating personal information to ensure accuracy and validity).
- When we share with “Joint Data Controllers” we will only do so where and when a mutually agreed and formalised “Data Sharing Agreement” is in place.
- The “Data Sharing Agreement” will clearly specify the items of personal information required to deliver the services and also the steps and controls to ensure the continued privacy and security of your information.
- The SAA will not share your information with any SAA Affiliated Clubs where a Data Sharing Agreement is not in place nor any other third parties beyond the SAA unless required to do so by law, for example, by a court order or for the purposes of prevention of fraud or other crime.

N.B. If you pay for services via an electronic/online Bank Payment (FPI, TFR, BP etc) directly to the nominated SAA Account your payment will be processed by your own Banking provider and will be initiated and completed using their own secure transaction services. The SAA currently use the Bank of Scotland and as such receipted transfers and records are managed by the Bank Of Scotland's secure EFT payment and transaction services. If you have any questions regarding these secure transactions services, please contact your Banking provider in the first instance.

9. How you can access and update your information?

The accuracy of your information is important to us. You can check the information we hold is correct by contacting the SAA Membership Secretary by email; memsec@saaweb.co.uk or in writing to; **Membership Secretary, Scottish Aeromodellers Association, 66 Well Road, Glenrothes, Fife, KY7 5DS**

10. Links to non-SAA websites?

Our website may contain links to other websites run by other organisations. This privacy policy only applies to the SAA and the SAA website, we encourage you to read the privacy statements on the other websites you visit. We cannot be responsible for the privacy policies and practices of other sites even if you access them using links from our website.

Additionally, if you linked to our website from a third-party site, we cannot be responsible for the privacy policies and practices of the owners and operators

of the third-party site and recommend that you check the privacy policy of that third-party site.

11. Your rights under GDPR

- **Right to access;**

You have the right to confirmation as to whether or not we process your personal data and, where we do, access to the personal data, together with certain additional information. That additional information includes details of the purposes of the processing, the categories of personal data concerned and the recipients of the personal data. Providing the rights and freedoms of others are not affected, we will supply to you a copy of your personal data. The first copy will be provided free of charge, but additional copies may be subject to a reasonable fee.

- **Right to rectification;**

You have the right to have any inaccurate personal data about you rectified and, taking into account the purposes of the processing, to have any incomplete personal data about you completed.

- **Right to erasure;**

In some circumstances you have the right to the erasure of your personal data without undue delay. Those circumstances include: the personal data being no longer necessary in relation to the purposes for which the data was collected or otherwise processed, you are no longer a SAA member and do not wish the data to be held for our standard 5-year period. Please note a request for data erasure for a current member would require that member to forfeit membership. The data is required for the SAA to fulfil its contractual obligations.

- **Right to restrict processing;**

In some circumstances you have the right to restrict the processing of your personal data. Those circumstances are: you contest the accuracy of the personal data; processing is unlawful but you oppose erasure; we no longer need the personal data for the purposes of our processing, but you require personal data for the establishment, exercise or defence of legal claims; and you have objected to processing, pending the verification of that objection. Where processing has been restricted on this basis, we may continue to store your personal data. However, we will only otherwise process it: with your consent; for the establishment, exercise or defence of legal claims; for the protection of the rights of another natural or legal person; or for reasons of important public interest.

- **Right to object to processing;**
You have the right to object to our processing of your personal data for direct electronic communications purposes. If you make such an objection, we will cease to process your personal data for this purpose.
- **Right to data portability;**
To the extent that the legal basis for our processing of your personal data is:
Legal Obligation, Consent; or (2) that the processing is necessary for the performance of a contract to which you are party or in order to take steps at your request prior to entering into a contract, and such processing is carried out by automated means, you have the right to receive your personal data from us in a structured, commonly used and machine-readable format. However, this right does not apply where it would adversely affect the rights and freedoms of others.
- **Right to complain to a supervisory authority;**
If you consider that our processing of your personal information infringes data protection laws, you have a legal right to lodge a complaint with the Information Commissioners Office. <https://ico.org.uk>
- **Right to withdraw consent.**
To the extent that the legal basis for our processing of your personal information is consent, you have the right to withdraw that consent at any time. Withdrawal will not affect the lawfulness of processing before the withdrawal.

You may exercise any of your rights in relation to your personal data by written notice to;

**SAA Secretary
Scottish Aeromodellers Association
66 Well Road
Glenrothes
Fife
KY7 5DS**

Example Club Policy:

Alloa and District Radio Flying Club – Privacy Notice

1. Privacy Notice

Alloa and District Radio Flying Club (ADRFC) hereafter referred to as “the club”, are committed to respecting your privacy and protecting your personal information.

“The club” have not appointed a Data Protection Officer to oversee our compliance with data protection laws as we are not required to do so, however contact details have been provided at the end of this privacy notice should you wish or need to contact us regarding data protection issues or compliance within “the club”.

This notice explains when and why we collect personal information about people who join “the club”, how we use it, the conditions under which we may disclose it to others and your rights in relation to your personal data.

As a living document this policy may change over time, please check the website at <http://adrfc.yolasite.com/> to ensure access to the most up to date version and that you are happy with any changes that may have been made. By becoming a member of “the club”, you are agreeing to be bound by this notice. Any questions regarding this notice and our privacy practices should be sent by email to ias046@gmail.com or by writing to the Club Secretary.

2. How do we collect information about you?

We obtain information about you when you apply to become a member of “the club”.

3. What type of information is collected about you?

- The personal information we collect may include your Name, Address, Email Address, Date of Birth, Telephone Number, Insurance and Competency Awards related to model flying.

If you pay “the club” for the services via an electronic/online Bank Payment (FPI, TFR, BP etc) directly to the nominated “the club” Account, a record of your payment, as supplied by the “the club”’s current banking provider, will be held by as part of our Financial Records.

4. The legal bases for the processing of your personal data is;

- To enable “the club” to fulfil our “Contractual Obligations” in the provision of membership services.
- To enable “the club” to fulfil our “Legitimate Interests” in the provision of membership services.
- To enable “the club” to fulfil our “Legal obligations” in the management and maintenance of financial records.
- By providing your “Consent” “the club” further provides information and news, guidance and support, events and competitions.

5. How is your information used?

We may use your information to:

- Process your membership
- Carry out our obligations arising from your membership
- Seek your views or comments on matters relating to the club and model aircraft flying
- Notify you of changes to our services
- Send you communications which you have requested and that may be of interest to you.

These may include information about “the club” events and contests and other club related matters, also information from the national bodies that may be of interest to you.

6. How long do we retain your information?

We will hold your personal information on our systems for as long as is necessary to carry out our obligations in relation to your membership, or as long as is set out in any relevant agreement between us. Where an individual person’s club membership lapses your information will be securely kept for a period of five years, after which your information will be deleted.

7. Who has access to your information?

- We will not sell or rent your information to third parties.
- We will not share your information with third parties for marketing purposes.
- **<< As a Scottish Aeromodellers Association (SAA) Affiliated Club we act as a “Joint Data Controller” with the SAA in respect of new and existing SAA members. Through our “Data Sharing Agreement” with the SAA we will share your information for the purpose of completing tasks and providing services to you and on your be-

half (for example processing new SAA member applications, processing SAA member renewals, updating personal information to ensure accuracy and validity).>>**

- ****<<** When we share information with the SAA, as a “Joint Data Controller”, we will only do so where and when a mutually agreed and formalised “Data Sharing Agreement” is in place. **>>****
- ****<<** The “Data Sharing Agreement” will clearly specify the items of personal information required to deliver the services and also the steps and controls to ensure the continued privacy and security of your information. **>>****
- “the club” will not release your information to any other organisation or third parties beyond “the club” unless we are required to do so by law, for example, by a court order or for the purposes of prevention of fraud or other crime.

8. How you can access and update your information?

The accuracy of your information is important to us. You can check the information we hold is correct by contacting the Club Secretary, or by email to ias046@gmail.com.

9. Links to non-“the club” websites?

Our website may contain links to other websites run by other organisations. This privacy policy only applies to “the club” and “the club” website, we encourage you to read the privacy statements on the other websites you visit. We cannot be responsible for the privacy policies and practices of other sites even if you access them using links from our website.

Additionally, if you linked to our website from a third-party site, we cannot be responsible for the privacy policies and practices of the owners and operators of the third-party site and recommend that you check the privacy policy of that third-party site.

10. Your rights

• Right to access

You have the right to confirmation as to whether or not we process your personal data and, where we do, access to the personal data, together with certain additional information. That additional information includes details of the purposes of the processing, the categories of personal data concerned and the recipients of the personal data. Providing the rights and freedoms of others are not affected, we will supply to you a copy of your personal data. The first copy will be provided free of charge, but ad-

ditional copies may be subject to a reasonable fee.

- **Right to rectification**

You have the right to have any inaccurate personal data about you rectified and, taking into account the purposes of the processing, to have any incomplete personal data about you completed.

- **Right to erasure**

In some circumstances you have the right to the erasure of your personal data without undue delay. Those circumstances include: the personal data being no longer necessary in relation to the purposes for which the data was collected or otherwise processed, you are no longer a club member and wish the data not to be held for our standard 5 years. Please note a request for data erasure for a current member would require that member to forfeit membership. The data is required for the club to fulfil its obligations.

- **Right to restrict processing**

In some circumstances you have the right to restrict the processing of your personal data. Those circumstances are: you contest the accuracy of the personal data; processing is unlawful but you oppose erasure; we no longer need the personal data for the purposes of our processing, but you require personal data for the establishment, exercise or defence of legal claims; and you have objected to processing, pending the verification of that objection. Where processing has been restricted on this basis, we may continue to store your personal data. However, we will only otherwise process it: with your consent; for the establishment, exercise or defence of legal claims; for the protection of the rights of another natural or legal person; or for reasons of important public interest.

- **Right to object to processing**

You have the right to object to our processing of your personal data for direct electronic communications purposes. If you make such an objection, we will cease to process your personal data for this purpose.

- **Right to data portability**

To the extent that the legal basis for our processing of your personal data is that the processing is necessary for the performance of a contract to which you are party and such processing is carried out by automated

means, you have the right to receive your personal data from us in a structured, commonly used and machine-readable format. However, this right does not apply where it would adversely affect the rights and freedoms of others.

- **Right to complain to a supervisory authority**

If you consider that our processing of your personal information infringes data protection laws, you have a legal right to lodge a complaint with the Information Commissioners Office. <https://ico.org.uk>

- **Right to withdraw consent**

To the extent that the legal basis for our processing of your personal information is consent, you have the right to withdraw that consent at any time. Withdrawal will not affect the lawfulness of processing before the withdrawal.

You may exercise any of your rights in relation to your personal data by written notice to us.

11. Contacting Us

Alloa and District Radio Flying Club
c/o Ian A Sutherland,
2 Lady Ann Grove, Tillicoultry FK13 6RF.

DATA SHARING AGREEMENT

between

Scottish Aeromodellers Association (SAA) & SAA Affiliated Clubs

Effective from 1st June 2017 until 31st May 2019

Parties

The Scottish Aeromodellers Association, 66 Well Road, Glenrothes, Fife, KY7 – referred to as the “SAA”

Scottish Aeromodellers Association Affiliated Clubs – referred to as “affiliated clubs” see Appendix 1 for a complete list of all participating Clubs.

1. Background

1.1 The following agreement between the SAA and Affiliated Clubs reflects the arrangements that they, as Data Controllers, have agreed to put in place to facilitate the sharing of Personal Data/Information, and explains the purposes for which it may be used, that is;

- To enable Affiliated Clubs to Act as Agents of the SAA for the purpose of accepting, processing and forwarding of new, returning and existing SAA member applications to the SAA Membership Secretary
- To enable the SAA to provide confirmation of Membership, Insurance and Achievement awards to the originating Affiliated Club.

As such, the SAA and Affiliated Clubs agrees to share and use relevant Personal Data/Information on the terms set out in this Agreement.

Purpose

2.1 This Agreement sets out the framework for the sharing of Personal Data/Information between both the SAA and Affiliated Clubs as Data Controllers and defines the principles and procedures that shall be adhered to and the responsibilities owed to each other.

2.2 The SAA exists as an Association of Scottish Aeromodelling Clubs and provides a variety of services, events, competitions and knowledge base for both Affiliated Clubs and individual members. Membership of the SAA also provides the individual with public liability insurance tailored for model flying.

2.3 Affiliated Clubs, those containing five or more SAA members, often provide the local facilities and associated services to their members. As an Affiliated Club, and participant of this Data Sharing Agreement, they have the ability to act as an agent of the SAA in respect of SAA membership services, that is applications on behalf of new members and renewals on behalf of existing members.

2.4 Both the SAA and Affiliated Clubs manage and maintain membership records and therefore record the same core personal Data/Information. This agreement will allow both the SAA and Affiliated Clubs to manage and share validated changes to personal Data/Information thereby increasing the integrity and currency of a member's personal Data/

Information held by each party.

This Agreement ensures that where personal Data/Information may be shared, such sharing will at all times comply with the requirements of the DPA and the GDPR.

2.5 The sharing of Personal Data/Information is necessary to support the following “Agreed Purposes” of both Parties:

- To enable Affiliated Clubs to accept SAA membership applications and renewals from new and existing SAA members.
- To enable Affiliated Clubs to forward applications and renewals containing personal Data/Information to the SAA.
- To enable the SAA to process memberships and provide reciprocal confirmation of Membership, Proof of Insurance and Achievement Awards, to the originating Affiliated Club.
- To enable the SAA to inform an originating Affiliated Club where a SAA Member invokes their right of Data Erasure, subsequently terminating their SAA membership, benefits and insurance.
- To provide individual members with a one-stop shop for joining or renewing memberships with both the Affiliated Club and the SAA
- To enable both the SAA and Affiliated Club to exchange updates, corrections or validated changes to the common personal Data/Information specified in this agreement.
- To comply with any legal obligation to which either Party is subject.

2.6 Both the SAA and Affiliated Clubs agree that this transfer of Personal Data/Information between the parties presents no new or additional privacy concerns.

2.7 Neither the SAA or Affiliated Clubs shall process Shared Personal Data/Information in a way that is incompatible with the Agreed Purposes.

As Data Controllers, both the SAA and Affiliated Clubs remain responsible for ensuring that all uses of the Shared Personal Data/Information are in compliance with all applicable Data Protection, Privacy laws and Regulations.

3. SHARED PERSONAL DATA

3.1 In relation to the “Agreed Purposes” as listed in section 2.5 the following types of Personal Data/Information may be shared between both the Initiating/Nominated Affiliate Club and the SAA;

- **First Name**
- **Middle Name**
- **Surname**
- **Address**
- **Postcode**
- **Date of Birth**
- **Affiliated Club**
- **SAA Membership Number**
- **SAA Achievement Awards**

3.2 The SAA will only provide the Personal Data/Information of members to an Affiliate Club where that member has either;

- Joined the SAA via the Affiliate Club or
- Has nominated them as their Affiliate Club.

For the avoidance of doubt, any Personal Data/Information relating to the following members shall be excluded, members who:

- Have left the SAA,
- Invoked the right to restrict processing,
- Invoked the right to erasure or
- Have indicated to the SAA that they object to their Personal Data/Information being processed by an Affiliate Club.

4. FAIR AND LAWFUL PROCESSING

4.1 Each Party shall ensure that it processes the Shared Personal Data/Information fairly and lawfully.

4.2 Each Party shall ensure that it Processes Shared Personal Data on the

basis of one of the following legal grounds:

- Processing is necessary for the purposes of the Contractual Obligation.
- Processing is necessary for the purpose of Legal Obligation.
- Processing is necessary for the purpose of Legitimate Interest

5. DATA SUBJECTS' RIGHTS

5.1 Data Subjects have the right to obtain certain information about the processing of their Personal Data through a Subject Access Request. Data Subjects may also request rectification, erasure or blocking of their Personal Data.

6. ROLES AND RESPONSIBILITIES

6.1 The Data Discloser shall ensure that Shared Personal Data/Information is accurate.

6.2 The Data Discloser shall be responsible for the security of transportation or transmission of any Shared Personal Data/Information to the Data Receiver by using appropriate channels or technical methods.

6.3 The Data Recipient will not disclose or transfer Shared Personal Data/Information to third parties.

6.4 Where either Party becomes aware of inaccuracies in Shared Personal Data/Information, they will notify the other Party.

6.5 Each Party undertakes that it will process the Shared Personal Data/Information in compliance with all applicable laws, enactments, regulations, orders, standards and other similar instruments that apply to its personal Data/Information processing operations.

6.6 Each Party shall nominate a single point of contact within their organisation who can be contacted in respect of queries or complaints regarding the DPA, GDPR and/or compliance under the terms of this Agreement.

6.7 All Parties agree to implement appropriate technical and organisational measures to protect the Shared Personal Data/Information in their possession against unauthorised or unlawful processing and against accidental loss, destruction, damage, alteration or disclosure.

6.8 The Parties agree to notify any potential or actual losses of the Shared Personal Data to the other Party as soon as possible.

6.9 The Parties agree to provide reasonable assistance as is necessary to each other to facilitate the handling of any Data Security Breach in an expeditious and compliant manner.

7. SIGNATURES

7.1 Signed for and on behalf of the:

Organisation:	Scottish Aeromodellers Association, 66 Well Road, Glenrothes, Fife, KY7 5DS
Name:	
Position:	
Signature:	
Date:	

7.2 Signed for and on behalf of :

Organisation:	
Name:	
Position:	
Signature:	
Date:	

Appendix 1 (✓ - Yes : X – No)

Aberdeen & District Soarers	X	Falkirk Model Flying Club	X
Aberdeen Aeromodellers Club	X	Fife Soarers	X
Alloa & District Radio Flying Club	X	Forfar Model Flying Club	X
Angus Model Flying Club	X	Forth Valley Soarers	X
Ayr and District Model Flyers	X	Garnock Valley	X
Balbedie	X	Glasgow Barnstormers Model Aircraft Club	X
Blackridge & District Model Flying Club	X	Glenlifer Model Flying Club	X
Bonchester Model Flying Club	X	Glenrothes Aeromodelling Club	X
Buchan Aeromodellers	X	Greenock & District Model Aircraft Club	X
Burns Country Flyers	X	Hamilton Radio Modelling Club	X
Cairngorm Model Flying Club	X	The Highland RC Gliding Club	X
Caithness Model Aero Club	X	Kerloch Flyers	X
Caplaw Model Flying Group	X	Kinross Radio Model Flying Club	X
Castle Douglas ATC	X	Lanark Aeromodelling Club	X
Central Scotland Model Flying Club	X	Linlithgow	X
Central Scotland RC Helicopter Club	X	Livingston Model Aircraft Club	X
Clyde Valley Flyers	X	MacMerry Model Flying Club	X
Clyde-View Model Helicopter Club	X	Montrose Model Aero Club	X
Cumbernauld Model Flying Club	X	Motherwell And District Model Aircraft Club	X
Cumnock	X	North East Float Plane	X
Dallachy Aeromodellers	X	Paisley Model Flying Club	X
Dornoch MFC	X	Penicuik & District Model Flying Association	X
Dumbarton & District Model Aircraft Club	X	Queens View Model Flying Club	X
Dumfries Model Flying Club	X	Ross-Shire Model Flying Club	X
Dundee Model Aircraft Club	X	Scotia Free Flight	X
Dunfermline Model Aero Club	X	Stracathro Model Flying Club	X
East Fortune Aeromodellers	X	Stranraer & District Model Flying Club	X
East Kilbride Model Flying Club	X	Warrix Flying Group	X
Edinburgh Model Flying Club	X	West Calder And District Model Flying Club	X

Coming up: LMA Strathaven Fly-in

28/29th July 2018

Hello. As you'll be aware, there is no LMA Scottish Airshow being held this year. However, the LMA propose to sponsor a Modellers' Fly-In event at the popular Strathaven Airfield. This is an excellent location for all types of model aircraft, particularly the larger models, and all modellers will be welcome and encouraged to participate in this Scottish event which is scheduled to be held over the **weekend of 28/29th July 2018**. The aim being to have a relaxed and enjoyable weekend of flying across the whole spectrum of model types and pilot skills, with the only administrative requirements being proof of adequate insurance and acceptable model safety and integrity. Model flying will be available from 9.30am till 5.30pm on both days with additional evening flying by liaison with the airfield management team and full-size activity. A large on-site hangar with toilet facilities will be available for safe overnight storage of assembled models and camping, caravanning and free parking will be available immediately adjacent to the airfield.

The LMA's intention is to promote a thoroughly enjoyable, friendly and relaxed weekend of model flying for all and we would seek your active participation in the anticipated success of this fly-In, the only Scottish LMA event this year. There's a lot of work and expense involved in arranging such an event and it would be really helpful to gauge the likely participation levels by interested modellers. Consequently, it would be of great assistance if you could confirm if you are interested in attending the proposed fly-In by contacting the local rep, tom.gallacher101@btinternet.com. Your response would be gratefully appreciated. Strathaven Airfield lies 3 miles west of the market town of Strathaven, South Lanarkshire, just off the main A71 Edinburgh/ Kilmarnock Trunk road and hotel / B& B deals are available within the town and immediate vicinity.

Cost. Free to all LMA members and affiliates; £5 SAA, BMFA and all other flyers - (All surplus funds will pass to Kilbryde Hospice Charity)

Insurance: All Flyers must exhibit adequate current Insurance -e.g. LMA; SAA; BMFA

Free Parking will be available in the adjacent field together with camping/ caravan spaces (See LMA site for weekend charges)

Temporary Toilet provision on site

The best approach route to the Airfield would be per the A71 trunk road and thereafter per direction signs as the A723 Hamilton / Strathaven will be subject to ongoing delays and closures during the period due to major services renewal work and is not advised.

Coming up: Scottish Scale Nationals

Glenrothes Club Field 4th & 5th August 2018

Introduction

This year's Scottish Scale National Championships will be run by Dick Marsden and his colleagues from Alloa to the usual Flying Scale format. However, this year's Class III event will revert to the original rules envisaged by the late Ron Fraser in an effort to attract more people into the world of Scale flying without the pressure of flying to a schedule where every move is under the scrutiny of two judges.

This format has no specified manoeuvres, aerobatic or otherwise. It allows ANY and ALL Scale model aircraft to participate equally, be it a four engine B17, a single engine Cessna, a three engine Junkers J52 or even a powered sailing microlight. ALL will be scored only on the realism of the flight pattern flown by the pilot.

Volunteer CD for this experiment is Don Imrie who admits to being old enough to have participated in the original events in the 90's which were very popular at the time because of their low pressure approach.

The whole concept is to run a low pressure contest with the emphasis on relaxation and enjoyment, whilst still flying scale models. We all know that there are large numbers of Scale models out there but they are rarely seen at scale events so in an effort to encourage entries, particularly those who may never have considered entering a scale competition, this event is the perfect way to start. So dust-off your scale model and join in the fun.

There will be no 'well known' models allowed in this event - the CD will make sure of that, so please give it your support. Please respect the spirit and intentions of this event. No arguing - no rivet counting - no criticising - just great fun!

Model Requirements

Any scale model can be entered. Proof that the full-sized aircraft existed must be provided. A 3-view drawing or photograph is fine. The model is not judged on scale accuracy.

Flight Requirements

Flight time, nominally 10 minutes, will be decided by the CD before the event according to the number of entries. Flight duration will not be scored. Models capable of only shorter flight duration may still be entered and will attract no penalty.

Flights should demonstrate the model in a manner similar to the capabilities of the full size aircraft i.e. realistic manoeuvres, scale-speed, rate of climb, roll rate etc.

There is no requirement for competitors to declare manoeuvres or to announce “start” or “complete”.

Scoring will be judged on flight realism only.

FAQs

Q1. Can I enter a model that has no undercarriage?

A1. Yes, but some points may be gained by those displaying realistic take-off and landings.

Coming Up: Machrihanish fun-fly 8/9 Sept

Contact Andy Rudden As always he must have your name, type of vehicle and registration number at the latest two weeks prior to the event. If you have registered before he will still need conformation of these details.

If you have any queries please feel free to phone or e/mail 07512642207 or ta152@sky.com

We can cater for free flight, control line, petrol, heli, jets, jlow, electric but sorry, no FPV or aircraft-mounted cameras.

Coming Up: Training & Testing weekends: West Calder: August 18th / 19th Hamilton: September 8th / 9th

As usual these events are free and pre-registration is not required but please let the Vice Chairman (Bill Grimsley) know if you are planning on doing Silver so that 2 examiners can be arranged. Any advance notice is welcome for all the disciplines and levels as it gives a better chance of having enough instructors and examiners present on the day.

Freeflight by Jim Arnott

Allison Trophy

The opening day of the 2018 season was on 18th February. The weather forecast improved as the date drew closer and we had excellent conditions for the Allison Trophy, an all-in mini contest. There was a light breeze from the south and it was dry but overcast all day giving quite stable air with very little thermal activity. There were five entries. David Hambley and Chris Edge were flying E36's; Bruce Duncan and Tommy McLaughlin were flying Coupe, and Jim Arnott was flying a mini-vintage rubber model.

Everyone managed at least one max on the day; some managed two maxes but

Tommy and Bruce with their Coupe d'Hiver models



perhaps we were somewhat rusty after our winter break as no-one managed to string three together. It was however a very pleasant start to the new season.

Jim started with a max with his Gollywock but on his second flight a big power stall took the edge of his climb height and the Gollywock was down 5 secs short of the max. Chris maxed the first two flights, but then saw his third flight down 15 secs short of the max. A third flight max from

Jim's Gollywock gave him a 10 secs advantage. Tommy, who had maxed his first two flights with his Coupe and now needed the same again to take the Trophy, snatched defeat from the jaws of victory by failing to switch on his timer at launch. His multi-function Coupe was trapped on the initial power settings and grossly under-elevated for a very disappointing final flight.

The meeting on 4th March was called off due to heavy snowfall causing travel disruption across the UK. Even if we had been able to reach Newbigging the thought of retrieving over a smooth snow covered landscape which is hiding ditches and crevasses below was a scary prospect.

3rd Area Events

The outing on 25th March was at risk of also being abandoned, but the weather forecast improved in the 24 hours prior to the event so unsuspecting fliers were



Jim won the Allison Trophy with his Vintage Gollywock

“I will need to lose some weight, if I am to survive this season “

into the trees at Weston Farm. (Don't do what he does, because he does not practice what he preaches!) As Jim approached the farm he could see the model hanging 30 ft up in a leafless deciduous tree and it looked like an easy prod out with the perch pole. However as he got closer he realised that in the wind, the branches were thrashing the model and a badly wrecked Urchin was all that he would be prodding out.

dragged from their home comforts. The westerly breeze had an average speed of 10/12 mph and was gusting to around 15 mph. Competing in the BMFA area events was not an option due to lack of downwind space for full length max flights. The local SAA event was “all-in-everything”. With the breeze directly at Weston Farm where there are horse paddocks, which the CD was keen to avoid, he ran the contest with three flights to a reduced max of 1 minute, with the d/t descent times accumulated.

There were three entries. Tommy McLaughlin and Jim Arnott both flew Urchin rubber models and David Hambley flew his E36 power model. Jim was first away. His fast climbing Urchin was in buoyant air and had reached some 500 ft. when it d/t'd at 58 secs and took another 1:59 to d/t back down



David's Super Pearl E36 maxed on all three flights but the climb pattern was inconsistent and very sensitive to the launch angle in the breeze. The model was quite low by d/t time, giving short descent times of 13, 4, and 11 seconds for a 3:32 total score. Tommy's Urchin is less highly powered than Jim's and on its first and second flights it took a while to fight its way clear of the low-level turbulence before climbing away. After d/t'ing it had descent times of 22 secs and 23 secs. His third flight was in better air from the start and had good height

when it d/t'd late at 1:28 and took 42 secs to descend. His total score was 4:27

Jim continued with his second Urchin and while not as sparkling as his first flight, a solid second flight max with a descent time of 34 secs, gave him the luxury of the final flight being a formality to bring his total to 5:52.

It was great to see a new face on the flying field. Colin Miller got in touch via the Dunfermline MAC website and arrived with boot load of nicely built P30's and Coupe's. He enjoyed a few short test flights despite the breezy conditions and was so enthused by watching the contest flights that he is keen to build an Urchin and an E36!

Indoor Contests 22nd April Bathgate Academy

Following cancellation of the Easter Sunday meeting due to floor repairs at the academy, contest for both Pennyplanes and Living Room Stick were held on 22nd April. We had five flyers in Pennyplane. I lent Colin Miller a scrap model from my junk box and he had several successful flights. As he improved to a best flight of 4:28, he threatened to beat my "good" model as I had plateaued with flights around 5 minutes. Bruce was somewhat below his best form but was still clear in second place with a 5:47 best flight and 10:00 total. Urlan was away out in front with a 13:39 total which included an outstanding 7:50 best flight. That is a **new Scottish Record for a Pennyplane**, 15 seconds better than Bruce's record set in 2014. Urlan also won LRS with flights of 3.25 and 3.18, although here Jim managed to hang on his coat-tails and was just 20 secs adrift.

	Pennyplane			Total
1	Urlan Wannop	5:49	7:50	13.39
2	Bruce Duncan	5:47	4:13	10:00
3	Jim Arnott	5:04	4:48	9:52
4	Colin Miller	2:40	4:28	7:08
5	Roger Paton	2:10		2:10
	Living Room Stick			Total
1	Urlan Wannop	3:25	3:18	6:43
2	Jim Arnott	3:20	3:04	6:24
3	Roger Paton	1:20		1:20

Obituary

Another giant of the Free Flight community has passed away. At the end of March, **Ray Monks** died at the age of 90.

Active from the 1940's onward, Ray represented GBR on numerous occasions. He famously was the only individual ever to qualify for GBR teams in F1A, B, C and D. He won team medals in all four classes, an incredible breadth of talent. Two of his famous designs were the Quickie A/2 that he flew to fourth place in the 1951 world championship and his ground breaking F1c, Veterano, which in 1971 showed what could be achieved with a rigid airframe, a very reliable own built multifunction timer, and a ballistic climb. It was acclaimed by the NFFS as one of their "models of the year"

European Championships

Congratulations to Chris Edge! Having finished in top spot in F1a at the BMFA team trials, Chris will be representing the UK again this summer. The European Championship is at the same flying field as last year's World Champs, at Szentes in Hungary. The contest runs from 23rd to 28th July. The other team members are Richard Jack and John Williams, so it is again a very strong experienced team and we wish them great success.

Very, very pretty but it is not Free Flight.

Allan Brown's latest flying toy. It is powered by a 1cc twin from Alex Finn, which looks like a perfect match for this Dart Kitten



F3a

First up for 2018 was the fabulous Macmerry Model Flying Club at Drem. The forecast was not particularly good but the red sky on the Friday night did turn into a blue-sky day with a decent wind along the runway. There were a few people missing due to holidays, new grandchildren, work etc., but the event was well attended with about a dozen people, and 4 rounds plus practice time during the lunch break made for a good day out.



April saw us at the Kinross club with a great turnout of 10 pilots. Again, in the run-up the weather was terrible but on the Saturday the mist burned off and we were flying on schedule at 10:00.

In May we were at the Caplaw Model Flying Group's site but unfortunately we were accompanied by low cloud which made competition flying impossible, though a few test and training flights did take place.

In May, Team AMFC (Angus Model Flying Club) representative Justin Meadows travelled down to the BMFA national flying site at Buckminster to take part in the GBRCAA Championships and was sitting 2nd at one point finishing a very credible 4th out of 9 after the final round, which was a fantastic result for his first competition in almost a year. And this with a new contra-rotating power train.

The June event was the team trials at the excellent Glenrothes site. The top 4



Above: Once again the Caplaw site was in great condition.



Left: Liam Madden being presented with the Campbell Cup for winning the 2017 Intermediate league

pilots from the team trials form the Scotland team in the Scotland vs Ireland vs England F3a Triple Crown, held this year at the East Fortune club site on the 8th and 9th September. All welcome as spectators. The 5th and 6th placed pilots go into the International team to make a 4th team. After hours of practice by all the pilots it was the Scottish weather that won all places with the



event being cancelled. In the event it rained all day so it was a good call to cancel the event. The teams were picked based on the previous comps and are:

Scottish Team

Steve Burgess

Gary Eunson

Malcolm Harris

Wolfgang Schiebel

Scottish International Team Members

Colin Elgey

Tom Laird

Next up will be the CVF event on the 14th July and we will as always be pleased to see any visitors and explain the various schedules.

**Justin travels to the
GBRCAA
Championships.**

For Sale: SAS Wild Thing slope soarer. Like new with two servos and a low discharge NiMH pack. Fit RX and fly. £45. Contact Dougie Eustace on 07910567559 . Collection from Cumbernauld or Kirkintilloch.



Waterplanes

The 24/25th March saw the waterplane event at Lochearnhead with a great turnout, some great models, and importantly some really great weather for the weekend. Check out Facebook for more great photographs: <https://www.facebook.com/groups/204878686527621/>.

2018 Waterplane Event Dates:

Loch Leven

18th & 19th August

Mill Dam

2nd September

Loch Insh

8th & 9th September

Kilbirnie

29th-30th September

Loch Earn

13th & 14th October



IMAC

The Scottish event in the IMAC-UK calendar was once again at Castle Kennedy on the 4/5/6th May with 13 pilots taking part, 5 from Scotland. Friday was practice day with rounds being flown on Saturday and Sunday. However, the event was destroyed by low cloud, mist and rain.

Before that however a few of the IMAC pilots headed to Nottingham for the UK Freestyle Masters, a knock-out challenge cup where 32 pilots were competing. Each pilot flew in the preliminary rounds then the 24 best placed proceeded to the knock-out phase. This comp is open to 30cc petrol / electric and above.

<https://www.facebook.com/groups/741884105981163/>

There are plenty of videos now on Youtube so either do a search for “UK Freestyle Masters” or click on this link:

https://www.youtube.com/results?search_query=uk+freestyle+masters+2018



The event was won by Dean Coxon for the 2nd year running, with Steven Glass in second and Daniel Goulding-Ellison in third place.

In June, Dan Gallo and Alistair Bell from the Angus club made their way down to the Wrexham comp which had attracted 16 entries over all classes. The Friday was blue sky but with a mixed bag for the Saturday and Sunday.



Dean Coxon on a low pass at the Freestyle Masters

Wrexham report by Dan Gallo: "Overall seven rounds were flown over the weekend. Five known rounds were flown in typically challenging IMAC contest conditions, one unknown round and a freestyle round. The wind made flying the sequences really interesting and the use of power and wind corrections were more important than usual. Freestyle required a no-holds barred approach in the wind. I flew a fast, in your face routine with my GP123 Edge 540. Thomas David flew a routine with his MVVS175 powered Extra and showed real control in varied old school 3D to win the freestyle, only 27 points out of a 1000 ahead. Alistair Bell also from Angus Model Flying Club took fourth in Sportsman class and flew well with his newly finished Sebart Sukhoi with DA100 power. It was the quietest model of the contest I thought, the Engel Super Silence 25x12 3 blade helping. I flew my old 3W Yak with DA170 power to second place in Unlimited class and I am pleased with my scores. It was a well run contest at one of the best sites on the tour and now looking forward to the next one at Bristol as a warm up before the BMFA Nationals in August."

Below: The start of "Unlimited" at Wrexham



Falkirk Model Flying Club Upgrade

by Arty Fisher

The Falkirk Model Flying Club came into existence in 1944 and settled in their current location near Airth about 25 years ago. This location is fantastic being close to the River Forth, about 40 feet above sea level, no near neighbours apart from the farmhouse and good access roads. However as with most clubs there were a number of challenges flying at the site mainly due to having animals in the same field and the repeated damage they caused to the soft boggy type of ground in the winter.

Awesome drainage machine get ready at Falkirk



This year the club sought permission to fence and install some drainage which was granted to allow the club to secure a fenced flying area. These two developments alone greatly improve the current flying area.

A significant amount of money was then required to pay for this transformation and as a result a call for donations was made. Club funds were used and do-

nations were made from members (some for a considerable amount) and funds also came in from the recently departed John Wilson/family in the form of models and modelling equipment donated and subsequently auctioned.

Dedicated areas are planned for nitro helicopter and aeroplane starting, an electric aeroplane and a helicopter plug-in area, a large model starting area



and a testing bench. The intention is to slab a pits area and pilot's stance. Further improvements in the form of more parking is planned depending on funding.

Work started in March this year with the installation of new drains and slabs arriving for the paths and pilot's

stance. April saw the fence and gates go up and the strimmer team of Gary and Gordon were hard at work while Alex rolled a temporary runway which will allow the new runway to bed in properly. In June the 'dozer arrived and in no time had levelled the runway ready for harrowing and seeding.



Many jobs have been carried out by members including hole filling, strimming, contributing funds and taking their time to make the club progress, so "thank you" (from the FMFC committee) to everyone who has helped over the past months and thanks to Geordie (the farmer) as without his permission none of this would be possible.

In a few months' time all this work will result in a fantastic strip and flying area suitable for all models including larger scale type planes and jets. The club is looking forward to welcoming everyone to their Summer fly-in on **Sunday the 5th August 2018.**

Let's get the party started



Firefly 46 Engine build by Craig Booth

Craig Booth brought a nice wee engine he made to the winter build competition and I thought members would find this interesting so I asked Craig to send me some pics and details – thanks Craig.

The engine is a Firefly 46. It was designed by Alex Whittaker and published in RCME magazine sometime around 2011-2012 I think. I have always fancied getting a lathe so when I found the article it was a good excuse. I decided to go for a separate lathe and a mill rather than a combined unit. I think this was a good decision and saved considerable time in setting up the various processes. After quite a bit of research I ended up getting a Warco WM240 lathe and a Warco WM14 mill.



The plans were very detailed for dimensions but I probably would have struggled as a first timer in terms of the various processes and especially the best sequence without a couple of very good on-line build articles. The photos and descriptions really helped in understanding the methods required. All of the parts are from either bar or square stock, with the main body being aluminium, the crank steel, piston cast iron, and piston liner steel. There are no bearings instead bushings made of bronze. There were also full plans for a carburettor with a standard needle. All in all I would say the material stock cost around £80.

The good thing about the engine is that everything is machined to fit. As long as you make the components in the right order even if you do not get the exact tolerances shown on the plans you can machine each part to fit the next, i.e. cylinder head first, then machine the piston liner to fit the head, then machine the piston to suit the liner.

The engine does not use piston rings so relies on a very snug fit only. This was achieved by lapping the piston liner with a specially made part and silicon carbide powder mixed with oil, working to finer and finer grades.

So does the engine work? Well I have had it running at up to 7000rpm on a 10x7. The running is a bit sporadic and I suspect this is a carb/fuel delivery issue so it's not quite ready for putting in a plane. The plan is to try it with a



standard carb from another engine and also to have another go at machining a piston trying to get the fit even closer and better compression.

As a first try I'm pleased with the results and now also have plans for a 91 sized four stroke which will bring new challenges with the valves and timing.

The idea if I could get this working would be to use it in the spitfire currently in progress.



Event Reports: Blackridge

Just to let everybody who is interested in attending the Blackridge 'Fly-In's' this year that the next one is Sunday the 2nd of September. See our website www.bdmfc.org to keep updated on times etc. Could anybody who is interested in attending please email me at alex777ellis@btinternet.com so we can keep a note of numbers? Thanks, Alex



Well attended fly-in on the 3rd June 2018





Winners: John (best model) and Alastair (best flight)

MADMAC by John Davidson

The day promised to be good. Participants came from the north, east, south and west bringing some 34 models in total ranging from combat, stunt, racing, and scale proving that control line is alive and well. Catering was handled by Mses Lipowski, Barr and Jack doing a sterling job keeping up all fed and wa-



tered—all “free”. All 3 flying circles were used throughout the day and a good time was had by all until rain stopped play at 15:45. Next year’s event promises to be more activity based, so GET PREPARED.



Machrihanish Fly-in

The first Machrihanish fly-in for 2018 took place on the 5th/6th May, the same weekend that the IMAC comp at CK and the F3a comp at Caplaw were wrecked by low cloud and bad weather. Over in the Mull of Galloway however, the weather was much better and

3049 feet long. Approved for space flight and shuttle landing. Could you land on this? Shame we don't get all of it.



Ayr & District (Maybole) Fly-in by James Stewart

The big day for the ADMF "Fly In", Sat 12th May dawned. The weather proved exceptionally kind to us with sunshine pretty much all day with a fairly warm gentle breeze. Between 35 & 40 cars arrived with 50+ attendees covering Warrix, West Calder, Dumbarton, Greenock, Caplaw, Glenluce, and Tarbolton (that I know of). A wide range of planes were evident (jets, electric and combustion powered fixed wing, scale, helicopter and racing drones (amazingly quick). All abilities of flyers were represented from beginners to aerobatic gods. The barbecue was excellent and was much praised. The general view was that it was a well organised and excellent event. There was no charge for the barbecue which as usual was a great focal point.



Concours d'elegance

The annual Concours / Bring & Buy event was held at the Tannochside / Viewpark Church hall on the 9nd of March, having been delayed for a week due to the red weather alert which brought chaos to Scotland. This delay probably contributed to the lowest turn-out I have seen for many years so hopefully it will get back to normal for next year. Hint—put something in your diary now since there is a good bet the same evening will be picked if the hall is available. Douglas Dickie had donated a lovely trophy for the winner of the Open Class, and there were all the usual activities associated with this popular event.



Open class winner Alex Kennedy DH82a Tiger Moth



Stephen Semple's Fairy Gannet

Dumbarton fly-in

Pictures by Andy Ramsey. More at

<https://www.facebook.com/groups/DumbartonandDistrictMAC/>



ATC Report

The year got off to a promising start with training days planned at RAF Kirknewton for the 10th and 17th March, and Bonchester Bridge on the 19/20th May. The 10th Feb was the first casualty thanks to a red weather warning and a foot of snow on the airfield and the week preceding the 17th did not look too good either with 20 to 30MPH winds promised. Unfortunately model aircraft flying does suffer from the weather and when you only get out a couple of times a year it can be quite a challenge to actually learn, so well done to the cadets who persevere.



The Bonchester Bridge event went ahead with beautiful sunshine all day and lots of flying. 30 cadets over 8 squadrons were in attendance so imagine the logistics in getting 8 sets of cadets to the site, 8 models prepared & inspected, 8 flight boxes, enough fuel for 2 days, 8 glow starts fully charged, packed lunches for 30 folk, overnight accommodation, travel etc., etc.

Helping at these events really is very rewarding so I would certainly encourage you to contact Colin Nicol and go along for the day.

The next event was held at the Glenrothes club site on the 17th July where the 1145DF Kinross and 470 Falkirk squadrons took part and again there was some really great flying with First Class Cadet Daniel Macpherson (Falkirk Club) achieving a Bronze pass.

For any cadets who are interested in aircraft spotting, the following apps for your phone might be useful:

[Flightradar24](#) – live aircraft tracking with “point and see” feature.

[ADS-B Exchange](#) – live aircraft tracking with filters e.g. only show military aircraft (who are transponding)

[Plane Finder](#) – another live tracker and again with the paid version you can point your phone at the plane in the sky and it will tell you what it is.

Web Site: <http://www.fightercontrol.co.uk/forum/index.php>



Above: First Class Cadet Daniel Macpherson (Falkirk Club) achieving a Bronze pass at Glenrothes.

Below: Group photo at the Bonchester Bridge club



Picture by Don Imrie



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