



## Working Group Discussion Paper

### 1 Overview

A key objective of EVF is to encourage participation by Veteran Fencers throughout Europe. To progress this objective a circuit of events is proposed along with a ranking system.

A set of 4 qualifying events for each weapon are chosen around Europe. Ranking points are awarded for these events plus the EVF Individual Championships.

Ranking points for a fencer are based on :

- their overall position
- the number of rounds of DE they have survived
- podium position

The best results from a set number of events are added together to form a total.

Ranking lists are provided for each of the 24 weapon-age categories in order of their total points.

#### 1.1 Use of the Ranked Lists

The Ranking Lists will be used for :

- seeding of the 2021 EVF Individual Championships
- seeding of the EVF Team Championships (?)
- the award of a trophy to the top placed fencer (?)

#### 1.2 Nomenclature

An **event** has a name, a location and a date eg EVF Championships, Chiavari, 2017

A **competition** has a weapon, category, entries and results eg ME4, 62 entries, John Mason came 1<sup>st</sup>

The proposed circuit has 4 events for each weapon with competitions per event.

## 2 Events

### 2.1 Types of Event

A circuit of events are included in the ranking system.

Circuit events are in different countries. Events should be accessible for an international entry.

Events do not have to be 6-weapon events but there should be the same number of opportunities for all weapons.

All events are run to the same formula in that the final round is D/E in age categories V1-V4 with bouts to 10 hits.

The first rounds are at the discretion of the organisers, the only condition is that there is no elimination after the poules.

Entry fees, provision of referees, DT are all the responsibility of the organisers.

The following calendar of events is proposed with events taking place between September and April:

	<b>Location</b>	<b>Country</b>
<b>Foil</b>	Budapest	HUN
	Munich	GER
	Faches-Thumesnil	FRA
	Graz	AUT
<b>Epee</b>	Turku	FIN
	London	GBR
	Kiev	UKR
	Wroclaw	POL
<b>Sabre</b>	Ohrid	MKD
	Madrid	ESP
	??	ITA
	Liege	BEL

## 3 Ranking Points

Points depend on the following factors:

- The type of event: there are the Circuit events and the EVF Championships
- The final placing in the competition
- The number of D/E rounds achieved
- Podium placing

Each of the above factors is discussed in the following sections.

### 3.1 Type of the Event

The points score is multiplied by 1,2 for a result in the EVF Individual Championships.

### 3.2 Final Placing

Placings for competitions are taken straight from the published results.

Whatever the size of the competition the first placed gets Max Points (50 is proposed). The last placed is awarded 1 point. A log scale, is then be used for intermediate places.

The last place is awarded something (1 point) so that ALL competing fencers appear in the ranking list.

For a **log scale** the points awarded are:

$$y = MP + (1-MP) * \log(x)/\log(N) \text{ where}$$

y = points awarded

MP = Maximum Points awarded (ie to first place in this event)

X = final ranking of the fencer

N = number of entries

### 3.3 D/E Rounds Bonus

Extra points (10) are awarded for each round achieved. This ensures that a 5<sup>th</sup> place in an entry of 300 earns more points than 5<sup>th</sup> place in an entry of 16.

### 3.4 Podium Bonus

Further bonus points are awarded for podium places. A formula is used to allocate the bonus so that a larger competition gets more than a smaller one.

### 3.5 Formula Testbed

A spreadsheet is provided on the [EVF Website](#) to illustrate the point allocation algorithms.

The algorithms can be tried with a small competition eg 16 entries and a large competition eg 300 entries.

It is required that certain conditions are met and these are illustrated on the right hand side of the spreadsheet:

1 <sup>st</sup> place		2 x 5 <sup>th</sup> place
2 x 8 <sup>th</sup> place		5 <sup>th</sup> place + 9 <sup>th</sup> place
2 x 16 <sup>th</sup> place	points should be greater than	9 <sup>th</sup> place + 17 <sup>th</sup> place
2 x 32 <sup>nd</sup> place		17 <sup>th</sup> place + 33 <sup>rd</sup> place
2 x 64 <sup>th</sup> place		33 <sup>rd</sup> + 65 <sup>th</sup> place
2 x 128 <sup>th</sup> place		65 <sup>th</sup> place + 129 <sup>th</sup> place

## 4 Sub-set of Results For Ranking

Fencers are not expected to do every competition but they are expected to attend a minimum number to accumulate points.

It is proposed that:

- a) For the season starting at the 2019 Congress, ranking is based on the best two (2) results from a possible total of 5: EVF Championships and the 4 circuit events in the coming year
- b) For the seasons starting at the 2020 Congress and beyond, ranking is based on the best four (4) results from a possible total of 9: the EVF Championships and 2 years worth of circuit events

## 5 Implementation of a Trial Ranking System

We propose to set up a software program, integrated with the EVF database, to produce ranking lists.

The program will:

- Import results from competitions
- Calculate ranking points based on the sections above (See Example 1 below)
- Show rankings based on the 2 best results in the test data
- Show ranking by weapon within an age group (See Example 2 below)
- Show how the ranking points have been calculated for each fencer (See Example 3 below)

The program will be hosted on the EVF server.

The trial Ranking tables will be accessible to anyone to comment on.

The tables will be available ca July 2019.

The programs will be based on software developed for British Veterans Fencing.

### 5.1 Examples from the BVF Ranking System

**Example 1:** List of events used



**Example 2:** Ranking List for Mens Foil Category 3

Filter  
 Weapon **Mens Foil** Category **Category 3** Found 22 fencers

<b>Id</b>	<b>Surname</b>	<b>Firstname</b>	<b>YOB</b>	<b>Age</b>	<b>Events</b>	<b>Points</b>	<b>Rank</b>	<b>View</b>
1569	WEDGE	Paul	1955	63	7	228.2	1	<a href="#">View</a>
928	LOWEN	Paul	1952	66	4	167.5	2	<a href="#">View</a>
677	BARTLETT	Anthony	1955	63	6	161.9	3	<a href="#">View</a>
804	FOX	Steve	1950	68	4	148.6	4	<a href="#">View</a>
1293	MEDHURST	Michael	1956	62	4	148	5	<a href="#">View</a>

**Example 3:** View the Points Details. The best 2 results are highlighted (in green) and used to calculate the total.

**Points Details**

**Mens Foil**

**FOX, Steve**

<b>Event</b>	<b>Year</b>	<b>Entry</b>	<b>Place</b>	<b>MaxPts</b>	<b>Points</b>
BVF 2017 Summer Selection Event	2017	9	2	50	43.9
BVF Championships 2017	2017	9	3	50	37.8
Age Groups 2018	2018	14	6	50	31.2
<b>Total</b>					<b>81.6</b>

The **2** best results count

(There will be extra columns for Round bonus points and for Podium bonus points.)

John Mason

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