

F9 Drone Sport 2022 Technical Meeting Minutes

Saturday 9th April 2022

Report by: Bruno Delor, S/C Chairman

ATTENDEES: 30 participants from 22 countries

First name + FAMILY NAME	Country	Title/Post
Markus HAGGENEY		FAI Secretary General
Antonis PAPADOPOULOS		CIAM President
Massimo SEMOLI		CIAM Secretary
Bruno DELOR		F9 S/C Chairman
Michael ORTER	AUT	F9 S/C member
Robert HERZOG	BEL	CIAM Delegate
Sotir LAZARKOV	BUL	CIAM Delegate + F9 S/C member
Harry ELLS	CAN	CIAM Delegate
Jose Manuel MARTINEZ-IBANEZ	ESP	F9 S/C member
Ari-Pekka REPO	FIN	F9 S/C member
Frédéric THEUREL	FRA	F9 S/C member
Peter UHLIG	GER	CIAM Delegate
Matthias MÖBIUS	GER	F9 S/C member
Andy CHAU	HKG	F9 S/C member
Michael CHENG	HKG	Observer
Peter BARSONY	HUN	F9 S/C member
Miss Soon Cheon PARK	KOR	CIAM Alternate Delegate + F9 S/C member
Miss Mikyung YOO	KOR	Observer
Martins VAITKEVICS	LAT	F9 S/C member
Arminas VOLSKIS	LTU	Observer
Ernest MATTIUSSI	LUX	CIAM Delegate & F9 S/C member
Zdravko TODOROSKI	MKD	CIAM Delegate
Aleksandar NIKOV	MKD	F9 S/C member
Darren EHLERS	RSA	F9 S/C member
Srdjan PELAGIC	SRB	CIAM Delegate
Zoran PELAGIC	SVK	CIAM Alternate Delegate
Bengt LINDGREN	SWE	CIAM Alternate Delegate
Didyasarin VEERAYUTH	THA	Observer
Chu-Pi LIN (JB)	TPE	F9 S/C member
David ROBERTS	USA	F9 Technical Expert

Beginning of the meeting at 13:00 CEST time.

The meeting had been recorded and the recording file will be uploaded on the FAI cloud especially for those who will not have been in situation to attend the meeting.

The pdf file of the slides presented during the meeting have been uploaded on the FAI cloud prior to the meeting to allow the participants to prepare the meeting.

After welcoming the participants and thanking the FAI Secretary General, Markus Haggene, to be present and the CIAM President, Antonis Papadopoulos, for his support, the F9 S/C Chairman, Bruno Delor, presented slides covering the following items:

- Role of the Technical Meeting.
- F9 Drone Sport Subcommittee (S/C).
- Major Drone Racing Events (World Cup – WDRC – TWG 2022).
- F9 Sporting Code Volume F9 Drone Sport.
- Evaluation of the F9 rule change proposal from Germany published on the CIAM Plenary Meeting Agenda.
- Other items.

CIAM PLENARY MEETING SPORTING CODE PROPOSALS

14.9 SECTION 4C VOLUME F9 - DRONE SPORT

One proposal published on the 2022 CIAM Plenary Meeting Agenda submitted by Germany and concerning F9A class (Drone Soccer).

B.1.1. Weight and size

b) Subclass F9A-B

The total weight of the drone ball including all equipment necessary for flight (including outer frame and batteries) shall not exceed 300 g 400 g.

The diameter of the frame must be 20 cm ± 2 cm **22 cm ± 2 cm**.

***Reason:** Drone balls in the previous dimensions are very difficult to make yourself. Since last year there have been very inexpensive balls that can be used excellently for this class and that can be bought worldwide. Unfortunately, these balls have a diameter of 230mm and a take-off weight of approx. 350g. The use of these balls represents an opportunity to promote class F9A in youth work*

After discussing the Drone Soccer context and history of the F9A class, it has been agreed to set up a F9 S/C Working Group (WG) for Drone Soccer activities' development.

The WG will be chaired by David Roberts (USA), F9 Technical Expert appointed by AMA for Drone Soccer.

In that situation, the recommendation of the F9 Technical Meeting to refer the proposal back to the F9 Subcommittee for further consideration has been accepted by the German CIAM Delegate.

DRONE RACING CLASS (F9U)

The S/C discussion hold on October 2021 regarding potential changes of the rules had not been conclusive. This particularly concern:

- Rule C.1.5 Video system. It will be necessary to clarify how a digital HD FPV system may be used.
- Rule C.9.3 Judge. Actually, it is specified one judge dedicated to each pilot. The idea is to introduce flexibility with for example possibility to use a centralized video recording with the 4 pilots' video on a unique large screen.

It has been agreed that the S/C will continue the discussion in order to be in situation to do S/C proposals of rules' changes. The S/C Chairman mentions the 15 November 2022 deadline to submit proposals for the 2023 CIAM Plenary Meeting Agenda in compliance with the CIAM General Rules.

Jose-Manuel Martinez-Ibanez (ESP) has accepted to manage the action within the S/C WG set up end December 2020 to study solutions to maximize flight opportunities to all competitors and minimize the effects of mid-air collisions or video issues.

E-SPORT

Drone Racing looks well adapted to become a global hybrid sport by combining real sport and e-sport, and may be an opportunity for FAI to enter e-Sport.

The FAI Secretary General mentions the IOC interest to introduce new disciplines for young people, and that IWGA wants to introduce e-Sport at the TWG 2025 in China and had approached FAI some weeks ago.

The F9 S/C Chairman explains the concept of a FAI Drone Racing International e-competitions Series.

Considering the experience of the F9U class and World Cup, it will not be a problem to define an event format and rules adapted for such a Series.

The project requests a multi player FPV simulator available on a digital platform and a Competition Management System.

For the multiplayer FPV simulator, it could be recommended to evaluate the solutions actually available on the market such as VelociDrone, or EreaDrone available on Steam platform.

The most critical matter will be the Competition Management System supporting the format and rules defined for the FAI Drone Racing International e-competitions Series. A possibility may be to see if Noosphere company, FAI's partner on different projects, may be interested.

David Roberts mentions is discussing with VelociDrone company the FAI request to offer possibility for the TWG 2022 competitors to train in equal conditions on a simulator before the event.

Sotir Lazarkov has opened a discussion on Basecamp within the F9 S/C regarding e-sport drone activities. He mentions that this project will justify expertise outside the S/C.

It has been agreed to set up a F9 S/C Working Group (WG) for Drone e-sport activities' development. The WG will be chaired by Sotir Lazarkov.

End of the meeting at 15:05 CEST time.