



F9 Drone Sport Subcommittee

- **Chairman:** Bruno DELOR (2 years term)
- **Composition** (*according to CIAM General Rules A.7.2*)
 - 38 members (in addition to the Chairman) all from different countries and selected from the F9 Technical Experts nominated by NACs
 - Subcommittee members serve as individual expert consultants and are not obliged to represent the views of their NAC
 - List of the members of the Subcommittee published on the FAI website (<https://www.fai.org/page/ciam-subcommittees>)
- **38 countries represented in the Subcommittee**
 - **Africa** (2): ISR - RSA
 - **America** (3): BRA - CAN - USA
 - **Asia & Oceania** (7): AUS - CHN - TPE - HKG - JPN - KOR - THA
 - **Europe** (26): AUT - BEL - BLR - BUL - DEN - ESP - FIN - FRA - GBR - GER - GRE - HUN - ITA - LTU - LUX - MKD - NED - NOR - POL - POR - RUS - SLO - SUI - SVK - SWE – UKR
- **Use of Basecamp for the Subcommittee exchnages**



2019 World Drone Racing Championship format

● 2019 Drone Racing World Cup

■ Challenger Series (23 events from 19 countries):

- Europe: BEL - BLR - BUL - ESP (2 events) - FIN (*Indoor*) - FRA - GBR - GER (2 events) - ITA - LAT - LTU - MKD (2 events) - POL - RUS - SUI
- Asia: HKG - JPN - KOR (2 events) - TPE

■ Masters Series

- Cancellation of the FAI North American Drone Masters in Hambourg, New York (USA) scheduled 10 & 11 August
- FAI Jeonju World Drone Masters in Jeju City (Korea) 1 to 3 November

● 2019 World Drone Racing Championship Grand Final

- Awarded to China for 3 years
- Hold in Ningbo 10 to 14 December 2019
- Participation: National teams + Individual competitors qualified from the 2019 World Cup results and ranking
- 111 competitors (including 44 juniors and 9 women) from 31 countries



2019 Drone Racing World Cup

2019 World Cup ranking



| | 2016 | 2017 | 2018 | 2019 | 2020 |
|--|------------|------------|------------|------------|------|
| Number of contests | 9 | 16 | 22 | 24 | 20 |
| Number of organising countries | 7 | 12 | 17 | 19 | 17 |
| Number of registrations | 327 | 575 | 1004 | 913 | |
| Average number of participants per contest | 36 | 36 | 46 | 38 | |
| Number of competitors placed | 229 | 434 | 669 | 566 | |
| Number of concerned countries | 17 | 37 | 41 | 46 | |
| Number of juniors (under 18 years) | 18 | 76 | 133 | 149 | |
| Ratio of juniors | 8% | 18% | 20% | 26% | |
| Number of concerned countries | 4 | 18 | 23 | 28 | |
| Number of women | | 6 | 13 | 15 | |
| Number of concerned countries | | 6 | 9 | 11 | |
| Number of participants placed in: | | | | | |
| 9 contests | | | | 1 | |
| 8 contests | | | | 1 | |
| 7 contests | | | 1 | 4 | |
| 6 contests | 1 | | 9 | 5 | |
| 5 contests | | 7 | 10 | 9 | |
| 4 contests | 2 | 7 | 12 | 15 | |
| 3 contests | 11 | 11 | 34 | 50 | |
| 2 contests | 66 | 113 | 144 | 103 | |
| 1 contest | 149 | 296 | 459 | 378 | |
| | 229 | 434 | 669 | 566 | |

- **Podium:**
 - 1- Thomass PETERSONS - LAT
 - 2- SungJu PARK (*Junior*) - KOR
 - 3- Pawel LASZCZAK (*Junior*) - POL
- **5 Juniors in the top 10 places**
- **12 contests (on 23) won by a Junior**





2020 situation & perspective for 2021

- **2020: A year off with COVID pandemic**
 - 20 Challenger Series events initially registered from 17 countries
 - CIAM 1st April 2020 CIAM decision for CAT 2 events due to restrictions in place in almost all countries:
 - World Cup rankings and awards not applied for 2020
 - Initial suspension defined until 20 April extended until 31 May with possibility to hold after that date Open International Non World Cup
 - No WDRC Grand Final hold end 2020 considering there will be no World cup and that all CIAM 2020 World Championships have been cancelled
- **Perspective for 2021**
 - Possibility to hold a F9U World Cup with a WDRC Grand Final end 2021
 - Organization of International Drone Soccer (F9A class) tournaments
 - Development of FAI Drone Racing e-competition
 - Drone Racing demo in Asian Indoor and Martial Arts Games hold in May 2021 in Thailand
 - 2021 World Games in Birmingham (USA) postponed to July 2022



FAI Sporting Code Volume F9 Drone Sport (1/2)

- **Volume F9 Drone Sport** (ex F3 Radio-Control Drone Racing) effective from 1st January 2016
 - Drone Racing World Cup rules
 - F9A (Drone Soccer) rules
 - F9U (RV Multi-rotor Drone Racing) rules
- **Content of the Volume** not subject to Plenary Meeting approval regarding the provisional statute of the F9A and F9U classes
 - ⇒ *Content under direct control of CIAM Bureau with possibility to be updated at any time during the year*
- **Releases** (based on the feedback of the previous year)
 - 15 March 2017
 - 15 March 2018
 - 1st January 2019 with release 1st May 2019 (*introduction of F9A class*)
 - 1st January 2020



FAI Sporting Code Volume F9 Drone Sport (2/2)

- **Edition 2020 main changes for F9A class** (*Chapter B*):
 - Subdivision in 2 subclasses : F9A-A (400 mm diameter) and F9A-B (200 mm diameter)
 - 6S battery pack for F9A-A and 3S for F9A-B with a maximum voltage for each cell of 4.25 V (*B.1.2*)
 - Mention how a penalty shot must be executed (*B.9.1*)
- **Edition 2020 main changes for F9U class** (*Chapter B*)
 - Battery pack: maximum voltage for each cell limited to 4.25 V (*C.1.2*)
 - Deletion of the interdiction to use a propeller protection (*C.1.3*)
 - Limitation of the output power for 868 MHz / 915 MHz modules (*C.1.4*)
 - When the double elimination sequence is not applied, possibility to consider 3 final flights instead 1 (*C.6.5*)
 - Flexibility given for organization of the additional rounds (*C.6.6*)
 - Modification of the composition of the races for the 1st elimination round (*Annexes C.2 to C.4*)



Evaluation of the F9 rules changes proposals

● CIAM General Conference

- Initially scheduled 3 & 4 April 2020
- Finally replaced by an e-Plenary Meeting preceded by e-Technical Meetings

● Proposals published on the Plenary Meeting Agenda regarding F9 classes

- Subcommittees have been requested to only consider the urgent proposals
- 4 proposals regarding F9 classes (all submitted by Germany)
- Evaluation of those proposals must be done in the e-Technical
- No comments received within the F9 Subcommittee on recommendations done by the Subcommittee Chairman (Basecamp post 16 September)
- Vote on all Sporting Code proposals scheduled 8 & 9 November