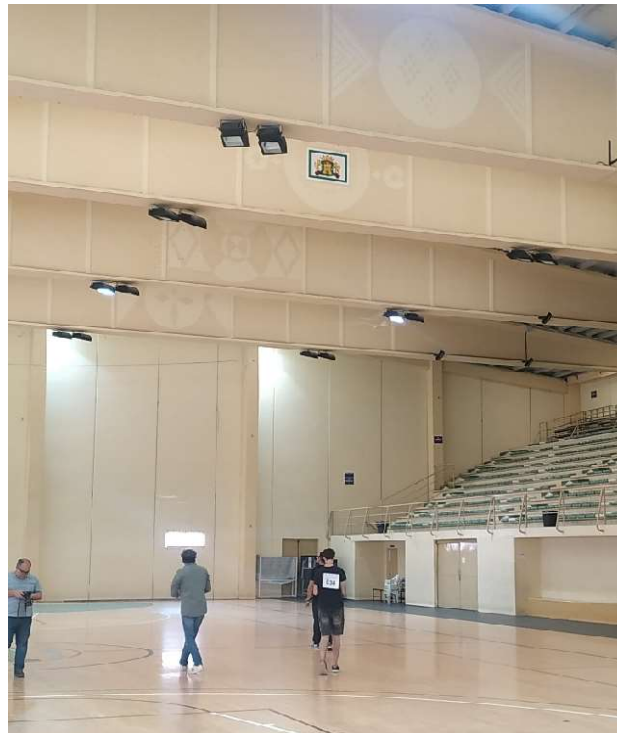


On the 7th of May, in the town of Ocaña, Toledo, took place the regional championship of Indoor flying of Castilla la Mancha. The championship was organised by Miguel Monedero, member of the aeromodelling club Aeroclub Ocaña and Jorge García of the Club Halcón de Veleros.

The competition was held in the municipal sports hall "Rafa Yunta", a sports hall with a sports court and a grandstand area. The height under the main beams is 8.8 m, from which the height of the luminaires must be deducted, leaving a useful height of about 8.2 m. This clear height makes the sports hall resemble a Category I sports hall in practice. It should be noted that the main beams are made of prefabricated concrete tapered beam and full web, which, in addition to providing an aesthetic attraction to the sports hall, the structure has a great advantage for indoor flying, as it prevents model from getting stuck.



Interior view of the sports hall with the main precast concrete beams.

A total of 16 competitors from different model flying clubs in Castilla la Mancha, Madrid and Cantabria took part in the championship, so it can be considered a great success.

The contest was focused on the F1M-L modality, with most of the contestants using the plane designed by Bruno Wächter, whose plan can be found at: https://www.thermiksense.de/wp-content/uploads/2018/05/F1M-L_upd.02.pdf

The competition was conducted in six rounds, with the two best times counting towards the final classification. One flying philosophy that was introduced for this competition was the No Touch mode. The contest could be won in two different ways, one by maximum flight time and the other by maximum time in the No Touch mode. In this mode, the model cannot touch the ceiling, although it can be guided if there is a risk of collision. In this way, the model runs less risk of getting hung up on the structure or being damaged by impacts against it. In this respect, as can be seen in the ranking, the best model had a flight time of almost seven minutes. I have

no data on this but it can be considered quite an achievement considering that this is a category I sport hall and fixed pitch propeller models.

Fishing rods were used to guide the models to prevent them from crashing into the walls, colliding with each other or flying into the grandstand area.



Guidance of a model by means of a rod.

It is worth mentioning that Bruno Wächter's design is very robust and easy to handle, which facilitated a high participation rate. It also has a great flight performance, achieving flight times of over 8 minutes, as can be seen in the classification.



Miguel Monedero with his plane in dialogue with other participants.

Apart from Bruno Wächter's F1M-L design, other designs were flown in the competition, such as Jorge García's F1M-L with elliptical wing or Manuel Ángel Díaz's F1M-L, with a quasi-tandem stabiliser, both with high flight performances.



Jorge Garcia's F1M-L model with elliptical wing.



F1M-L model of Manuel Angel Diaz.

For reference, the best times were achieved with propeller pitches close to 600 mm, 370 mm rubber loops weighing just over 1.25 g and with 1700 turns and back off at 150 turns. The maximum take-off torque was approximately 4 g/cm.

The results could be viewed live online, so that the competition could be followed from anywhere in the world via the internet.

Nombre	Categoría	Dorsal	Vuelo #1		Vuelo #2		Vuelo #3		Vuelo #4		Vuelo #5		Vuelo #6		Total	Posición	Mejor No touch	Posición No touch	Pesos Mod.1	Club
			Tiempo	No touch?	Tiempo	No touch?	Tiempo	No touch?	Tiempo	No touch?	Tiempo	No touch?	Tiempo	No touch?						
Jorge García-Bravo	s	27	6:17	YES	7:20	NO	7:28	NO	7:16	NO	6:48	YES	0:00	NO	14:56	5	6:48	1	ok	Club Halcón de Veleros
Alberto Solera Rico	s	28	4:13	YES	4:48	NO	5:01	NO	5:33	NO	2:05	NO	4:53	YES	10:34	13	4:53	6	ok	Luis Cid-Fuentes
Mariano Jiménez Ramírez	s	29	4:49	YES	3:12	NO	5:30	NO	2:26	NO	3:38	NO	0:00	NO	11:00	12	4:49	7	ok	Alcotán
Manuel Ángel Díaz García	s	30	6:33	NO	6:14	NO	6:14	NO	7:22	NO	7:16	NO	0:00	NO	14:38	6	0:00	10	ok	Aeromodel Club Santander
Miguel Monedero Yébenes	s	31	1:55	NO	6:54	NO	7:12	NO	7:18	NO	1:14	NO	0:00	NO	14:30	7	0:00	10	ok	Aeroclub Ocaña
Manuel Martín Sánchez	s	32	2:00	NO	0:00	NO	0:00	NO	0:00	NO	0:00	NO	0:00	NO	2:00	16	0:00	10	ok	Grupo de Aeromodelismo de Ocaña
Fernando González Camuñas	s	33	4:44	NO	0:20	NO	0:00	NO	0:00	NO	0:00	NO	0:00	NO	5:04	15	0:00	10	ok	Club Tajo Aeromodelismo
Pablo Jiménez Martín-Ventas	j	34	6:45	NO	7:02	NO	6:41	NO	7:22	NO	7:58	NO	0:00	NO	15:20	3	0:00	10	ok	Club Tajo Aeromodelismo
Diego José Jiménez Martín-Borja	s	35	7:28	NO	1:02	YES	6:33	NO	7:48	NO	0:00	NO	0:00	NO	15:16	4	1:02	9	ok	Alcotán
Federico Martínez	s	36	6:42	NO	6:13	NO	4:11	YES	5:59	YES	6:26	NO	3:50	NO	13:08	10	5:59	2	ok	Aeroclub Ocaña
Antonio Rodríguez Delgado	s	37	7:06	NO	5:35	YES	6:59	NO	6:03	NO	1:41	NO	8:36	NO	16:39	2	5:35	4	ok	Club Tajo Aeromodelismo
Mateo Hidalgo Rodríguez	j	38	7:15	NO	1:34	NO	7:01	NO	6:48	NO	8:47	NO	0:00	NO	17:35	1	0:00	10	ok	Club Tajo Aeromodelismo
José Luis Oteño Palmero	s	39	5:48	YES	2:15	YES	6:39	NO	6:27	NO	5:48	NO	0:00	NO	13:18	9	5:48	3	ok	Luis Cid-Fuentes
Ignacio Villar	s	41	3:02	NO	1:51	YES	4:11	YES	2:36	NO	4:02	YES	5:17	YES	9:28	14	5:17	5	ok	Luis Cid-Fuentes
Miguel González Muñoz	s	42	3:10	YES	4:55	NO	4:44	YES	5:58	NO	6:16	NO	1:39	NO	12:14	11	4:44	8	ok	Grupo de Aeromodelismo de Ocaña
Patricia López Verdú	j	43	6:31	NO	6:57	NO	5:43	NO	1:18	NO	5:30	NO	0:00	NO	13:28	8	0:00	10	ok	Club Halcón de Veleros

Scores of the competition including time and No-Touch ranking.



Participantes en la zona de preparación de los modelos.

On the podium were two juniors, Mateo and Pablo, one of them the first prize, setting times very close to 9 minutes. Congratulations to the winners.



The podium of the competition in which two junior contestants were placed.

The preliminary work and preparations before the competition, the timekeepers, the food, the logistics, the arrangement of tables where each participant could prepare their models, the updating of the competition information in real time, the prize-giving and in general the organisation was a complete success.

Thank you and bravo to the organisers.