

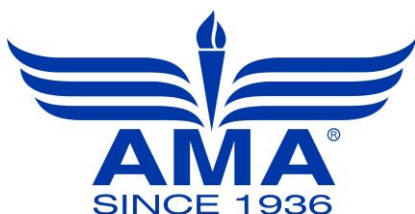
**2022 FAI F3D/F3E World  
Championships  
For Pylon Racing Model Aircraft  
Muncie, Indiana U.S.A.  
08 – 14 July 2022**



**Bulletin 2 – May 2022**

**Friday July 08, 2022 (Opening Ceremony)  
Thursday July 14, 2022 (Closing Ceremony)**

**[www.modelaircraft.org/fai](http://www.modelaircraft.org/fai)**



# FAI F3D/F3E World Championships for Pylon Racing Model Aircraft – Muncie, Indiana

## Web Site:

The official web site containing all World Championships information may be found at [www.modelaircraft.org/fai](http://www.modelaircraft.org/fai). This site will be kept updated with all Bulletins and other pertinent information.

## Accommodation Details:

There are numerous hotels in the Muncie area, just a short drive from the International Aeromodeling Center site (within 20-minute drive). Room rates beginning at approximately \$80.00 USD per night; most allow two to four people in the room at this rate. Suggested accommodation in the Muncie area can be found on the AMA website here: <https://www.modelaircraft.org/about-ama/visit-ama/hotel-restaurant-information>.

Camping is also available on the AMA site. The site features 43 recreational vehicle (RV) sites with 20/30/50-amp electric service. An RV dump station, fresh water, hot showers and toilet facilities are also available on the AMA site. An Information/Registration portal for camping at the International Aeromodeling Center can be found here: <https://www.campspot.com/book/internationalaeromodelingcenter>

## Catering/Restaurants:

There are numerous restaurants in Muncie that cater to all food preferences. The IAC site will also have vendors selling food on the site during the event. For information on the greater Muncie, Indiana area, please visit the Muncie Visitors Bureau website at: [www.visitmuncie.org](http://www.visitmuncie.org).

## Insurance:

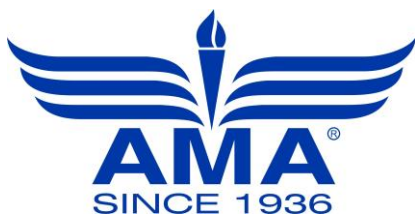
The Organizer will provide a limited third-party liability insurance covering all competitors for model related activity. Non-US citizens are required to follow the same model aircraft regulations that US citizens are required to follow, including following [AMA safety guidelines](#), registering at [FAA's Drone Zone](#), and taking [The Recreational UAS Safety Test \(TRUST\)](#). A portal is being set up through the World Championship website <https://www.modelaircraft.org/fai> to assist competitors and team managers in complying with these regulations prior to arriving in the US. It is recommended that individual health and travel insurance is purchased before traveling. All further insurances (driving, general, legal expenses etc.) are up to the team managers, pilots, helpers, supporters and spectators. The organizer is not responsible for any kind of personal injury, loss, theft or damage to people or property during the contest and the journey and stay in the United States.

## Transportation/Car Rentals:

All major car rental companies service Indianapolis International Airport. All have competitive rates for daily/weekly rentals.

## 2022 AMA Pylon Racing Nationals:

From July 17<sup>th</sup> through 23<sup>rd</sup>, following the F3D/E World Championships, the US National Championships for Pylon Racing Model Aircraft will be held. All F3D/E competitors attending the World Championships are invited to stay compete in the US Nationals event. Further information regarding registration will be included in bulletin 2.



# FAI F3D/F3E World Championships for Pylon Racing Model Aircraft – Muncie, Indiana

## Miscellaneous:

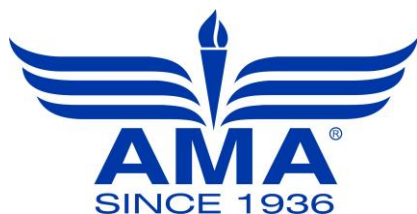
- Voltage in the USA is 110v – 60Hz
- The currency in the USA is the US dollar. The official currency of the Championship will be the USD and the Euro.
- Participants should check with their local US Embassy or Consulate with regard to entry/exit visa requirements.
- Driving is on the right-hand side of the road.

## COVID-19 Safety Information:

Within Delaware County, Indiana current COVID 19 information is available on the Counties Health Department website @ <https://delaware-county-indiana-coronavirus-hub-delcogis.hub.arcgis.com/>. This includes local testing sites, and health care providers near-by in the event someone feels ill during their stay at the International Aeromodeling Center. Information handouts on local emergency care services providers will be distributed during check in. From time to time please visit the FAI web site COVID19 section for any updates. The World Championship web site will also be updated for this matter when so needed.

## Entries received as of 26 April 2022:

| Country     | TM | F3D<br>Pilot | F3E<br>Pilot | Caller | Supporter |
|-------------|----|--------------|--------------|--------|-----------|
| AUSTRALIA   |    | 3            | 3            |        |           |
| BELGIUM     | 1  | 1            |              |        |           |
| BRAZIL      |    | 3            | 1            | 2      | 1         |
| CANADA      | 1  | 1            |              | 1      |           |
| CZECH REP   |    | 3            | 3            |        | 2         |
| FRANCE      | 1  | 3            |              |        | 1         |
| GERMANY     |    | 1            |              | 1      |           |
| GUATEMALA   | 1  | 3            |              | 3      | 3         |
| ITALY       |    | 1            | 1            |        |           |
| JAPAN       | 1  | 3            | 3            | 6      | 2         |
| NETHERLANDS |    | 3            | 2            |        |           |
| SWEDEN      |    | 3            |              | 3      | 1         |
| USA         | 2  | 4            | 3            | 3      | 2         |
| VENEZUELA   | 1  | 1            |              | 1      |           |
|             | 8  | 33           | 16           | 20     | 12        |



# FAI F3D/F3E World Championships for Pylon Racing Model Aircraft – Muncie, Indiana

## Entry Fees:

|  | <b>Euro</b> | <b>US \$\$</b> |
|--|-------------|----------------|
| Team Manager                                 | 420         | \$462.00       |
| Pilot <i>flying</i> F3D                      | 420         | \$462.00       |
| Pilot <i>flying</i> F3E                      | 420         | \$462.00       |
| Pilot <i>flying</i> F3D & F3E                | 610         | \$671.00       |
| Pilot Junior/Female <i>flying</i> F3D or F3E | 210         | \$231.00       |
| Pilot Junior/Female <i>flying</i> F3D & F3E  | 300         | \$330.00       |
| Callers <i>calling</i> F3D or F3E            | 210         | \$231.00       |
| Callers <i>calling</i> for F3D & F3E         | 305         | \$336.00       |
| Caller-Junior <i>calling</i> for F3D or F3E  | 100         | \$110.00       |
| Callers Junior <i>calling</i> F3D & F3E      | 150         | \$165.00       |
| Supporter                                    | 50          | \$55.00        |
| Banquet                                      | 50          | \$55.00        |

\*\* Currency exchange rate based on 1.1

If paying in US Dollars (preferred) you may use the below options:

## PayPal:

[craigs@modelaircraft.org](mailto:craigs@modelaircraft.org)

## MasterCard, VISA, Discover:

Academy of Model Aeronautics  
FAI/F3A World Championship  
5161 E. Memorial Drive  
Muncie IN 47302, U.S.A.

Phone: (765) 287-1256, ext. 252  
Fax: (765) 289-4248  
e-mail: [cpierce@modelaircraft.org](mailto:cpierce@modelaircraft.org)

## Wire Information:

Beneficiary: Northwest Bank  
100 Liberty Street  
Warren, PA 16365 USA  
Routing #: 243374218  
Swift Code: NWBIUS33

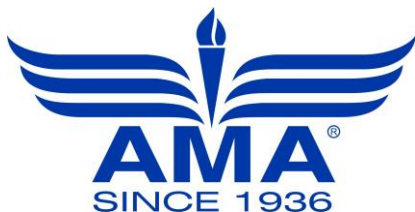
Academy of Model Aeronautics, Inc.  
5161 E Memorial Drive  
Muncie, IN 47302 USA  
Beneficiary Account #: 5536018814

## Deadlines:

Official Final Entry Forms and Payment of Entry Fees must be received no later than 9 May 2022

## Model Aircraft Fuel:

Fuel will be provided in accordance with CIAM General Rules C.13.7. Practice fuel is available at a cost of \$20 USD per 1 gallon jug. Teams should request practice fuel prior to arrival. The Final entry form will have a space provided for payment of the pre-ordered amount. Ordered fuel will be available for practice beginning on July 3, 2022.



# FAI F3D/F3E World Championships for Pylon Racing Model Aircraft – Muncie, Indiana

## All competitors:

Prior to arrival for the WC, please supply 2D, 1:1 drawing's (preferred format is DXF) of the surfaces used to calculate area (this includes cross sectional area) as it pertains to your model. We are fully aware that many pilots fly the same design, in these cases only one source of documentation is required. It is the responsibility of the pilot to make sure the model entered meets all requirements. The US inspection crew will validate both the provided drawings and the physical model entered into the competition.

## Classes:

F3D / F3E

## Rules:

The World Championship will be run according to:

- FAI Sporting Code General Section
- FAI Code of Ethics.
- FAI Anti-Doping Rules.
- FAI Sporting Code Section 4 Aeromodelling CIAM General Rules Volume 2022 Edition.
- FAI Sporting Code Section 4 Aeromodelling Volume F3 Radio Control Pylon 2022 Edition.

[https://www.fai.org/sites/default/files/sc4\\_vol\\_f3\\_pylon\\_21\\_v2.0.pdf](https://www.fai.org/sites/default/files/sc4_vol_f3_pylon_21_v2.0.pdf)

### • 5.3.11 (F3E) sub section g:

A ten (10) seconds period will be allowed after the starter has made sure everyone is ready to go. The race starts immediately after the 10-seconds period. No competitor shall be permitted to take off once the first model aircraft has passed the start/finish line heading from No. 1 to No. 2 pylon on the first lap, and no time shall be given him for that heat.

### 5.2.17 (F3D) sub section g:

A one-minute period will be allowed for starting and adjusting the engine(s). The race starts immediately after the one-minute period. A competitor whose model aircraft engine is not running at the end of the one-minute period will be disqualified from the heat. No competitor shall be permitted to take off once the first model aircraft has passed the start/finish line heading from No. 1 to No. 2 pylon on the first lap, and no time shall be given him for that heat.

*Organizer Clarification - Attempts by a pilot to prevent other pilots from recording flight times due to cutting the course and returning on the back side of the course prior to the other aircraft being launched will be treated as un-sportsman like behavior.*

### • 5.2.2 Technical Specifications of Pylon Racing Aeroplanes sub section e:

For the identification of models, the contest director may supply coloured stickers to the competitors to be applied on the wing surfaces. These wing stickers shall have the following properties:

- i) Width between 75 and 100 mm; length equal to local wing chord, but a minimum of 100 mm.
- ii) Thickness maximum 0.1 mm.
- iii) Total weight of stickers maximum 3 grams.





## FAI F3D/F3E World Championships for Pylon Racing Model Aircraft – Muncie, Indiana

- iv) Adhesive strength more than 0.5 N/mm<sup>2</sup>.
- v) Water resistant.
- vi) Sufficiently flexible to follow all wing shapes.
- vii) Bright colour (fluorescent recommended); two highly different colours have to be available.
- viii) The ability to be peeled off without damaging wing surfaces.
- ix) The stickers must be positioned at the outer half of either the left or the right wing on the top and bottom sides.

*Organizer clarification - For this event the organiser will be supplying coloured ID stickers according to the above specification and it is mandatory for all models in this event to have these stickers applied.*

### F3E

[sc4\\_vol\\_edic\\_20.pdf \(fai.org\)](#)

#### • 5.3.5.3. Use of Limiters in competition

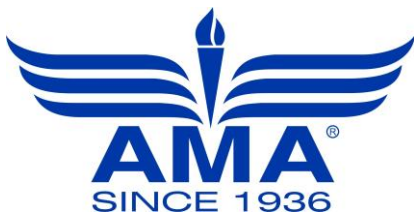
The organiser can use two systems of use of limiters. Only one of these two systems can be used in one contest. The organiser must decide which of these systems he will use and indicate this clearly in the invitation:

- 1: Every competitor uses his own limiter
- 2: The organiser provides for every competitor two (2) limiters, these will be drawn by competitors either every day or before every round. The organiser will provide information in the invitation for the competition how this will be done.

*Organizer clarification - For this event the organizer has chosen option 2. Two energy limiters shall be supplied to each contestant by contest organizers. They will be collected and redistributed randomly at least once per contest day. Limiters shall be of approved type and conform to applicable specifications. Limiters shall have following detailed specifications and will be approved for use:*

#### specifications:

- a. Weight: 16 gms (nominal)
- b. Dimensions: 51 mm (including bullet connectors) X 22mm X 10 mm (nominal)
- c. Battery Connectors: 6mm bullet type, male end (+), female end (-)
- d. R/C Plug: JR type 3 pin, RX male, Speed Control Female
- e. R/C Plug Length: 15-17 cm (nominal) each plug
- f. Common Ground: R/C Plug (-) and Battery (-) are connected; speed controls must be non-optically isolate to function with limiter
- g. Supplied R/C Throttle Pulse Acceptable Frame Rate: 30 to 100 Hz
- h. Supplied R/C Throttle Pulse Period to Pass-through to Speed Control (below cutout): 0.9 to 2.1 ms
- i. Generated R/C Throttle Pulse After 1000 Wm Cutout: Supplied Frame Rate with 1.0 ms period (nominal)
- j. Interruption Restoration: Limiter shall allow an additional 100 Watt-minutes (W-m) after a (10) second interruption when 1000 W-m has been reached. Limiter will allow indefinite 100 Wm energy consumptions followed by 10 second gaps after the 1000 Wm cutoff has been reached. This will allow the contestants to make a safe landing after the race.



# **FAI F3D/F3E World Championships for Pylon Racing Model Aircraft – Muncie, Indiana**

## **Local rule change F3E start procedure specific to Muncie:**

Due to the layout of the Muncie site and a history of shifting wind directions the organisers have requested to CIAM and the bureau has granted permission for a local rule change, which is just the old F5D rule.

## **Starting Procedure:**

- a) Starting positions in all races will be determined by draw. Model aircraft will be signalled for start by the starter via flag, light or acoustic information at 1 second intervals with timing commencing when the model aircraft crosses the start/finish line for the first time.
- b) A maximum of one minute will be allowed after identification of all model aircraft of the heat at which point the race will commence. A competitor whose model aircraft is not ready to fly at the end of the one-minute period, will be disqualified from the heat.
- c) No competitor shall be permitted to launch once the first model aircraft has passed the start/finish line heading from No 1 to No 2 pylon on the first lap and no time shall be given him for that heat.
- d) After the start signal, any contact between model aircraft shall be considered a collision and the model aircraft involved must leave the flight path immediately and land as soon as possible. The Contest Director is required to give such competitors a second opportunity to record a score in that round, provided that in his opinion the aircraft are still airworthy or the competitors have airworthy reserve model aircraft. If a competitor fails to stop racing immediately after the collision, then he will be disqualified from that round.
- e) The starter announces the direction of the launch at least 10 minutes before the first heat on each competition day. If the wind direction changes during the competition and the starter must adopt the launch direction a minimum of 10 minutes preparation time before the next heat must be given. The helper must launch the model within  $\pm 45^\circ$  of the given launch direction.
- f) A penalty will be incurred if the competitor releases the model aircraft before the start signal, or in the wrong direction, cuts a pylon or flies outside the sideline. Two infringements constitute disqualification for that flight.

## **FAI Jury:**

Mr Barrie LEVER  
Mr Jim ALLEN  
Mr David FORD

United Kingdom  
United States  
Canada

