

Chief Judges Report
32nd WAC
Zamosc, Poland

14 -24 August 2024



1. Judges and Assistants

Chief Judge: Quintin Hawthorne (RSA) with Laszlo Liskay and Irma Janciukiene.

Judges: Timo Bartholdi (FIN), Tuula Bartholdi. Algis Orlickas (LTU), Juozas Valivonis. Galyna Supranenko (UKR), Violeta Gedminaite. Gilles Guillemard (FRA), Guy Auger. Esteban Moulin (BEL), Alain Dugas. Eladi Lozano (ESP), Rodrigez Gonzalo. Marty Flournoy (USA), David Taylor.

There was one change from the original selection - Violeta Gedminaite replaced the appointed Ukrainian assistant who was unable to attend due to travel restrictions applicable in the Ukraine.

2. Accommodation and Transport.

All the judges, assistants and the members of the jury were accommodated in the Hotel Carskie Koszary, located away from the main roads, approximately 10km from the airfield. The facilities were comfortable and adequate while the meals provided at breakfast and dinner were sufficient. Pilots were housed in a separate hotel.

Transportation for the judging team was not ideal. Only one minivan with a capacity of 8 passengers was provided for panel members. This meant that at least two shuttle trips were required each morning and evening to get everyone moved.

Due to the available travel options some judges arrived on site a day earlier than the official arrival date and were forced by the hotel to pay for the additional accommodation. The organisers were aware of the early arrivals and had made the appropriate hotel reservation in advance, however they failed to abide by the CIVA regulations governing early arrivals of judges in order to attend compulsory briefings. This was pointed out to the contest director and organiser, who agreed to refund those judges who had paid for the extra accommodation. I provided them with the relevant receipts and banking details to facilitate the refunds, however at the time of preparing this report no refunds had not been made.

3. Competitors

A total of 36 pilots from 13 countries participated, with one H/C entry. There were 2 warm up pilots provided for the event; Romain Fhal (FRA) and Jan Jilek (CZE). Romain initially attracted some controversy from the organisers who seemed to challenge his national status, however his participation was subsequently approved

and he capably conducted his warm up flights for Programme 1 before becoming ill, ultimately resulting in his withdrawal. Jan had intended entering the Excellence category and since its cancellation, he volunteered to be a warm up pilot. Although he was considered an Advanced category competitor he demonstrated that he was more than capable of performing the Unlimited sequences, and all were flown safely. He was the only warm up pilot for the remainder of the contest.

4. Performance Zone

The aerobatic box was placed abeam runway 03/21 and extended beyond the airfield boundary and across the neighbouring ploughed fields. The box was placed overhead level terrain and there was no rising ground within 5km of the airfield. Apart from an access road to the neighbouring farm, there were no obstacles underneath the performance zone. There were some high-tension power lines located to the East of the performance zone, however this potential hazard was clearly pointed out to all pilots during the briefings.





5. Judging Positions and facilities

The judge's positions were well marked and all easily accessible along the farm tracks. The prevailing wind and sun's position favoured the use of the East judging location on most days. After assessing the sun's track however, it was decided that flying would not commence before 10h00 each day while the East position was in use to avoid judges having to look directly into the sun. This judging position was placed approximately 200m from the edge box marker.

The South position was located somewhat closer to the box, no more than 150m from the edge marker. It was placed up against the perimeter of the farm garden fence. A hedge alongside the judging position made it awkward for the two judges that were placed abeam the hedge, to assess any low flying if it occurred.

I considered the North position totally unusable in view of the sun's track. Any suitable position of the sun for flights to take place would have only occurred nearer sunset.

The West position was suitably located on the airfield and was used only once, during the Freestyle programme.

A group of young volunteers took charge of setting up the judging facilities. This was all carried out promptly with everything in place by the time the judges arrived. Chairs, shades and refreshments were adequate.

Radio communication with the starter and contest officials was seamless throughout the contest, capably managed by Laszlo Liskay at the CJ table.

Irma Janciukiene diligently managed the scoresheet reviews and prepared them for the scoring office. The scoresheets were collected by a runner and taken to the scoring office at regular intervals.

Adequate briefing facilities were made available to the judges, complete with TV monitor and video review setup.



6. Video

Prior to the start of the contest, the contest director and Jury President alerted me to the fact that the videographer team members were inexperienced in filming aerobatic flights. We agreed that they be given an opportunity to practice by way of filming the practice flights which we would assess. After numerous attempts we considered that they would manage with the task at hand. While one of the US volunteers agreed to act as a backup recorder for the duration of the assessment flights, the jury deemed that the use of the alternative footage in a video review may be challenged. The contest management made it clear that they had a second person on standby if needed. There were a few video reviews from Programmes 1 and 2, most of which involved poor quality video footage. The videographer was clearly not adequately competent despite being briefed, and the result was impacting the decisions taken at the reviews. I suggested that the standby videographer be called to continue the task. The new person was clearly experienced at recording aerobatic competition flights and familiar with Aresti sequences and judge reviews. He had recently recorded a glider aerobatic contest and mentioned that he was a student at an aviation academy. He recorded the flights with a hand-held camera without a tripod. The quality of the video footage was significantly improved and I applaud the organisers for their willingness to recruit him at an added expense to the championship.

7. Flying standards.

Programmes 1 – 4.

There was a suitably high standard of flying throughout the contest, with only a few of the competitors having difficulty with the unknown programmes. No LOW penalties were recorded during the competition and all flying was considered safe. Despite the regularity of having large birds flying in the vicinity of the performance zone, only two pilots were advised to delay the start of their sequence because of the flocks of storks flying through the box. Also, there was only one occasion that a competitor took off before the previous competitor had completed his sequence and he followed the briefed procedure to hold to the north of the performance zone. I would also like to commend the Flight Director and his assistants who ensured the rapid pace of flight launches with a minimum delay.

Flying was cancelled for almost two days due to the runway being waterlogged and considered unsafe for operations following a thunderstorm on 19 August.

All four programmes were completed despite the inclement weather delay.

Programme 5.

The Freestyle programme was scheduled for the morning on the final day, to be performed in front of a demarcated public viewing area on the western side of the airfield. Unfortunately the start was delayed for a number of hours while the organisers hastily arranged for smoke oil to be collected from another location. Their club AN2 was used to fetch the drums of oil. By the time that the AN2 had returned with the oil and decanted into the participating aircraft, it was already after 2pm. The judging facilities had been set up on the western position and the judges were subjected to non-ideal conditions looking into the setting sun. The music was well co-ordinated and there were no low calls or incursions of the deadline.

8. Judging Standards.

All the judges were selected on the basis that they had previously officiated at either a National or CIVA Unlimited category championship and thus experienced at assessing Unlimited sequences. A detailed judges test and briefing was conducted prior to the commencement of the flying. Mostly, the panel were in consensus with their assessment of the flights but there were occasional omissions of factual errors, particularly during the warm-up flights and also in Programme 4. There was an occasion where all judges missed a HZ where a pilot rolled 3 times instead of twice; on another occasion they missed a HZ where a pilot performed a 1 $\frac{3}{4}$ roll and not 1 $\frac{1}{4}$ roll. Almost every warm - up flight produced a missed HZ or missed penalty. Most video reviews were of snap rolls considered 'no snap' and mostly without consensus.

My thanks to all the judges and their assistants, the CJ assistants and the video recorder for their hard work in the field.



The overall assessment (Judges Ranking Index report) of the judging panel is attached to this report.

Quintin Hawthorne
Chief Judge, WAC-24

Analysis Of Judges Combined Anomalies

Sequences: Seq01 Programme 1: Free Known, Seq02 Programme 2: Free Unknown #1 (UNP), Seq03 Programme 3: Free Unknown #2 (UNP), Seq04 Programme 4: Free Unknown #3

32nd FAI WAC 2024
Mokre/Zamosc, POLAND
15 to 25 August 2024

| | | | FIN | FRA | USA | BEL | LTU | UKR | ESP |
|------------------------|--------------|-------|----------------|-------------------|----------------|----------------|----------------|-------------------|--------------|
| | | | Timo Bartholdi | Gilles Guillemard | Marty Flournoy | Esteban Moulin | Algis Orlickas | Galyna Suprunenko | Eladi Lozano |
| | | | RI 5.89 [4] | RI 9.50 [4] | RI 9.69 [4] | RI 13.94 [4] | RI 14.13 [4] | RI 16.40 [4] | RI 20.75 [4] |
| | All Judges | | | | | | | | |
| | No | | 1.8 | 1.7 | 1.9 | 1.9 | 1.7 | 1.6 | 2.0 |
| | % | | | | | | | | |
| HZ - Hard Zeros | 255 | 1.8 | 37 0.0 | 35 0.0 | 38 0.0 | 38 0.0 | 34 0.0 | 32 0.0 | 41 0.0 |
| Marks from 0.0 to 6.5 | 2441 | 17.3 | 619 30.7 | 192 9.5 | 243 12.1 | 505 25.0 | 129 6.4 | 375 18.6 | 378 18.8 |
| Marks from 7.0 to 10.0 | 11406 | 80.8 | 1360 67.5 | 1787 88.6 | 1732 85.9 | 1472 73.0 | 1853 91.9 | 1609 79.8 | 1593 79.0 |
| AV - averages | 10 | 0.1 | 0 0.0 | 2 0.1 | 3 0.1 | 1 0.0 | 0 0.0 | 0 0.0 | 4 0.2 |
| Total marks | Pilots/Judge | 14112 | 2016 144 | 2016 144 | 2016 144 | 2016 144 | 2016 144 | 2016 144 | 2016 144 |

Style Comparison:

Average and Style of Judges Raw Marks compared to normalised all-Judges average
Style $\propto 2 \times \text{Raw SD}$

Vertical axis scale:
1 mark = 94mm

Raw Marks Factors:

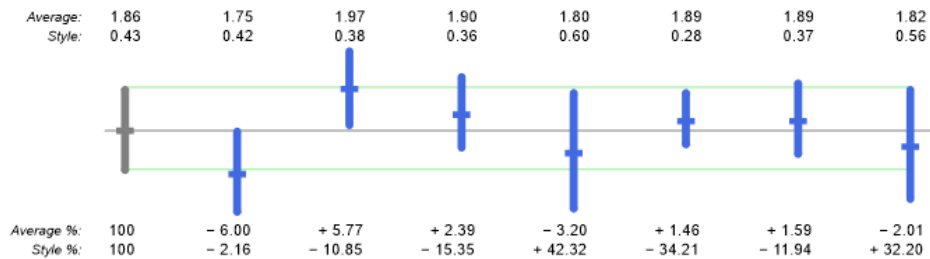


Figure anomalies

| | | | | | | | | | |
|------------------------|-----|-----|----|----|----|----|----|----|----|
| HZ to fitted value | 46 | 0.3 | 5 | 5 | 7 | 8 | 4 | 4 | 13 |
| Mark to confirmed HZ | 42 | 0.3 | 4 | 6 | 4 | 6 | 6 | 8 | 8 |
| AV to confirmed HZ | 2 | 0.0 | - | - | 1 | - | - | - | 1 |
| AV to fitted value | 8 | 0.1 | - | 2 | 2 | 1 | - | - | 3 |
| Lo to fitted value | 142 | 1.0 | 6 | 26 | 16 | 30 | 16 | 16 | 32 |
| Hi to fitted value | 45 | 0.3 | 2 | 3 | 9 | 5 | 10 | 9 | 7 |
| The 60% Rule | 21 | 0.1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Total figure anomalies | 306 | | 20 | 45 | 42 | 53 | 39 | 40 | 67 |

Sequences: Seq01 Programme 1: Free Known, Seq02 Programme 2: Free Unknown #1 (UNP), Seq03 Programme 3: Free Unknown #2 (UNP), Seq04 Programme 4: Free Unknown #3

| | | | | | | |
|----------------|-------------------|----------------|----------------|----------------|-------------------|--------------|
| FIN | FRA | USA | BEL | LTU | UKR | ESP |
| Timo Bartholdi | Gilles Guillemard | Marty Flournoy | Esteban Moulin | Algis Orlickas | Galyna Suprunenko | Eladi Lozano |

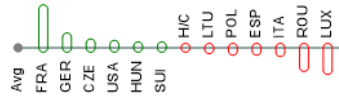
Sequence anomalies

| Team | Pilots assessed in FPS pass-2 | FIN | FRA | USA | BEL | LTU | UKR | ESP | |
|---------------------------------|-------------------------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| CZE Czech Republic | 12 | 3 Lo 4 Hi | - 1 Hi 2 Lo - | - - | - - | 1 Lo 1 Hi | - 2 Hi | - - | |
| ESP Spain | 8 | 3 Lo 5 Hi | - - | 1 Lo - | - 1 Hi | 1 Lo - | 1 Lo - | - 3 Hi | |
| FRA France | 40 | 18 Lo 10 Hi | - - | - 2 Hi | 1 Lo - | 2 Lo 2 Hi | 3 Lo 1 Hi | 4 Lo 1 Hi | |
| GER Germany | 20 | 2 Lo 4 Hi | - - | - 1 Hi | - - | - 1 Hi | 1 Lo 1 Hi | 1 Lo - | |
| HUN Hungary | 8 | 0 Lo 2 Hi | - - | - - | - - | - 2 Hi | - - | - - | |
| ITA Italy | 4 | 2 Lo 2 Hi | - - | - - | - - | 1 Lo - | - 1 Hi | - 1 Hi | |
| LTU Lithuania | 4 | 0 Lo 1 Hi | - - | - - | - - | - - | - 1 Hi | - - | |
| LUX Luxembourg | 12 | 1 Lo 3 Hi | 1 Lo - | - - | - - | - 2 Hi | - - | - 1 Hi | |
| POL Poland | 4 | 1 Lo 2 Hi | - 1 Hi | - - | - - | - - | 1 Lo - | - - | |
| ROU Romania | 12 | 1 Lo 2 Hi | 1 Lo - | - - | - - | - - | - - | - 2 Hi | |
| SUI Switzerland | 8 | 1 Lo 0 Hi | - - | - - | - - | - - | 1 Lo - | - - | |
| USA United States | 8 | 2 Lo 3 Hi | - - | - - | - 1 Hi | 1 Lo - | 1 Lo - | - 1 Hi | |
| H/C H/C | 4 | 0 Lo 1 Hi | - - | - - | - - | - - | - 1 Hi | - - | |
| Total sequence anomalies | | 34 Lo 39 Hi | 2 Lo 2 Hi | 3 Lo 3 Hi | 1 Lo 2 Hi | 5 Lo 7 Hi | 7 Lo 6 Hi | 8 Lo 8 Hi | 8 Lo 11 Hi |

Cumulative RI contributions per Team

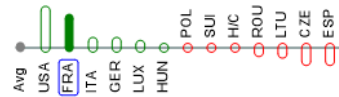
Timo BARTHOLDI (FIN)

Judge: max country bias = 1.29 min = -0.73
 Panel: = 2.48 min = -2.34
 Most favoured Least favoured



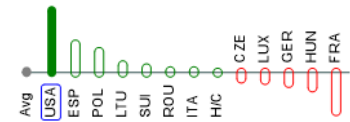
Gilles GUILLEMARD (FRA)

Judge: max country bias = 1.22 min = -0.44
 Panel: = 2.48 min = -2.34
 Most favoured Least favoured



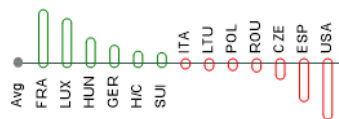
Marty FLOURNOY (USA)

Judge: max country bias = 2.08 min = -1.28
 Panel: = 2.48 min = -2.34
 Most favoured Least favoured



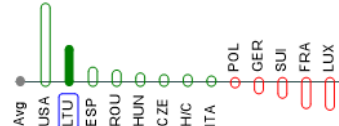
Esteban MOULIN (BEL)

Judge: max country bias = 1.66 min = -1.73
 Panel: = 2.48 min = -2.34
 Most favoured Least favoured



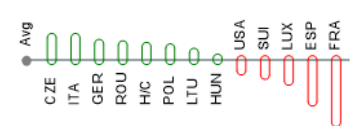
Algis ORLICKAS (LTU)

Judge: max country bias = 2.48 min = -0.79
 Panel: = 2.48 min = -2.34
 Most favoured Least favoured



Galyna SUPRUNENKO (UKR)

Judge: max country bias = 0.76 min = -2.07
 Panel: = 2.48 min = -2.34
 Most favoured Least favoured



Eladi LOZANO (ESP)

Judge: max country bias = 1.50 min = -2.34
 Panel: = 2.48 min = -2.34
 Most favoured Least favoured

