



U.S. National Aerobatic Championship

**Wittman Regional Airport (KOSH)
September 23-29, 2017
Oshkosh, Wisconsin**

Bulletin No. 1

2 July 2017



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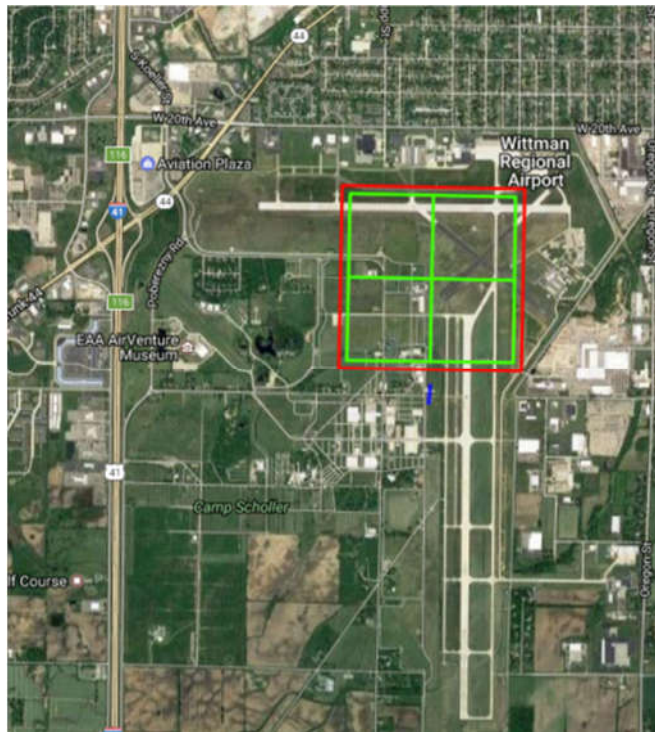
1. General

The U.S. National Aerobatic Championship is organized by the International Aerobatic Club, Inc. (IAC), P. O. Box 3086, Oshkosh, WI 54903-3086.

1.1 Venue

The U.S. National Aerobatic Championship will be held at the Wittman Regional Airport (KOSH), situated in the city of Oshkosh, Wisconsin USA. The Nationals will be situated on the grounds of the world-famous EAA AirVenture, the annual gathering of aviation enthusiasts each summer.

Oshkosh is situated approximately 21 miles south of Appleton, 88 miles north of Milwaukee, and 177 miles north of Chicago. The Milwaukee airport is General Mitchell International Airport (KMKE); major airports in Chicago are O'Hare International Airport (KORD) and Midway Airport (KMDW). Appleton is Appleton International Airport (ATW). All four airports are served by major airlines.



The Aerobatic Box overhead Wittman Airport. The position of the box is approximate and will differ from this image slightly.



2. Contest Officials

2.1 U.S. Nationals Contest Jury

- Jury President - Robert Meyer
- Jury Members - Mike Heuer
 - Bill Gordon
 - Tom Adams
 - Peggy Riedinger
 - Tim Brill
 - Doug Sowder



Nationals Contest Director Gary DeBaun

2.2 Chief Judges

- Primary/Sportsman - Kevin Campbell
- Intermediate - Hector Ramirez
- Advanced - Peggy Riedinger
- Unlimited - Jim Wells

2.3 Organizing Body - International Aerobatic Club, Inc.

- IAC President - Mike Heuer
- Executive Director - Lorrie Penner
- EAA Event Coordinator - Kelly Zanders
- Contest Director - Gary Debaun

2.4 Officiating Body - International Aerobatic Club

- Contest Director - Gary Debaun
- Assistant CD - Bob Harris
- Volunteer Coordinator - Alice Johnson
- Registrar - Liza Weaver
- Scoring Director - Janet Fitzke
- Safety Director - Tim Brill
- Chief Tech Inspect - Chris Magon
- Medical Director - Hector Ramirez



2.5 Technical Committee TBA

2.6 Judges

Judges will be selected in accordance with the process given in IAC P&P 501.4 and is based on available judging analysis, recency of experience, and overall performance. Names of the judges for each category will be provided in Bulletin #2.

3. Schedule

Wednesday, September 20 0730 - Practice Day - box open until 1730

Thursday, September 21 0730 - Practice Day - box open until 1730

Friday, September 22 0730 - Official Practice Begins
0730 - Technical Inspections
0730 – Sign-up for all unreserved practice slots
1000 - Meeting with Key Staff Members (IAC Pavilion)
1200 - On-Site Registration and Volunteer Sign-up

Saturday, September 23 0730 - Practice, Technical Inspections, Registration
0800 - Judges Refresher Course
1000 - Group Photo at EAA Brown Arch
1100 - Opening Ceremony - Founder's Wing, EAA Museum
1200 - Official Pilots & Volunteers Briefing. Order of Flight
1400 - Advanced Known Program
1900 - Opening Reception & BBQ at EAA Nature Center

Sunday, September 24 0700 - Primary/Sportsman Known Pilots & Volunteers Briefing
0800 - Primary & Sportsman Known Program
1100 - Advanced Free Pilots & Volunteers Briefing
1200 - Advanced Free Program
1700 - Advanced Free Unknown 1 Figure Submission Meeting
1900 - Distribution of Advanced Free Unknown 1 Figures

Monday, September 25 0700 - Intermediate Known Pilots & Volunteers Briefing
0800 - Intermediate Known Program



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- 0800 - Deadline for Advanced Free Unknown 1 Sequence Submission to Jury
- 1000 - Unlimited Known Pilots & Volunteers Briefing
- 1100 - Advanced Free Unknown 1 Sequences approved by Jury and posted
- 1100 - Unlimited Known Program**
- 1400 - Primary/Sportsman Free 1 Pilots & Volunteers Briefing
- 1500 - Primary & Sportsman Free 1 Program**
- 1800 - Deadline for Advanced Pilots to notify CD of Free Unknown 1 Sequence Selection
- Tuesday, September 26
- 0700 - Posting of Advanced Free Unknown 1 Pilots Sequence Selection
- 0700 - Advanced Free Unknown 1 Pilots/Volunteers Briefing
- 0800 - Advanced Free Unknown 1 Program**
- 1100 - Unlimited Free Pilots & Volunteers Briefing
- 1200 - Unlimited Free Program**
- 1200 - Advanced Free Unknown 2 Figure Submission Meeting
- 1400 - Distribution of Advanced Free Unknown 2 Figures
- 1400 - Intermediate Free Pilots & Volunteers Briefing
- 1500 - Intermediate Free Program**
- 1600 - Unlimited Free Unknown Figure Submission Meeting
- 1800 - Distribution of Unlimited Free Unknown Figures
- 1900 - A Night at the Movies (*EAA SkyScape Theater*, EAA Museum)
- Wednesday, September 27
- 0700 - Primary/Sportsman Free 2 Pilots & Volunteers Briefing
- 0800 - Primary & Sportsman Free 2 Program**
- 0800 - Deadline for Advanced Free Unknown 2 Sequences Submission to Jury
- 1200 - Advanced Free Unknown 2 Sequences approved by Jury and posted
- 1400 - Deadline for Advanced Pilots to notify CD of Unknown 2 Sequence Selection
- 1400 - Intermediate Unknown Pilots & Volunteers Briefing
- 1500 - Intermediate Unknown Program**



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- 1500 - Deadline for Unlimited Free Unknown Sequence Submission to Jury
1800 - Unlimited Free Unknown Sequences approved by Jury and posted
1900 - Key Volunteer (KVG) Dinner - location TBA
- Thursday, September 28 0900 - Posting of Advanced Free Unknown 2 Pilots Sequence Selection
0900 - Advanced Free Unknown 2 Pilots & Volunteers Briefing
0900 - Deadline for Unlimited Pilots to notify CD of Unknown Sequence Selection
1000 - Advanced Free Unknown 2 Program
1900 - Gathering of Members and Introduction of 2017 U.S. Advanced Team Members (EAA Nature Center)
- Friday, September 29 0800 - Posting of Unlimited Unknown Pilots Sequence Selection
0800 - Unlimited Free Unknown Pilots & Volunteers Brief
0800 - Team 17 Photo Shoot (Evan Peers)
0900 - Unlimited Free Unknown Program
1200 - 4-Minute Free Pilots & Volunteers Briefing
1300 - 4-Minute Free Program
1500 - Cleanup
1800 - U. S. Nationals Awards Ceremonies & Banquet (Founder's Wing, EAA Museum)

4. Regulations

4.1 General

The U.S. National Aerobatic Championships will be organized in accordance with the following:

 [P&P 501 - IAC Championships - Rev 24 - 1 April 2017.pdf](#)

 [P&P 503 - US National Aerobatic Championships - Rev 33 - 01 April 2017.pdf](#)



 [P&P 504 - Selection of US Aerobatic Teams - Rev 30 - 1 Apr 2017.pdf](#)

 [P&P 506 - Contest Juries at IAC Championships - Rev 26 - 1 Apr 2017.pdf](#)

[IAC Official Contest Rules - 2017](#)

Aresti Catalogue (condensed) for Power & Glider Aerobatics (www.arestisystem.com)

Federal Aviation Regulations (FAR)

Local Regulations (to be announced in Bulletin 2)

5. Competitors, Aircraft and Fuel

5.1 Competitors

5.1.1 All Competitors must:

- a) Be current members of the IAC; or hold a valid FAI Sporting License issued outside the USA.
- b) Must possess a minimum of a Sport Pilot certificate if flying a qualifying Light-Sport aircraft (LSA), or at least a Recreational Pilot certificate with rating appropriate for the class of aircraft to be flown (power or glider) if flying an aircraft other than a LSA. However, a pilot with a Sport Pilot certificate may fly a non-LSA aircraft in Primary or Sportsman, if accompanied by a Safety Pilot (See 2.2 of the IAC Rulebook) who holds the appropriate certificates and endorsements for the aircraft in question.
- c) All competitors, regardless of pilot certificate held, must either be in compliance with the FAA rules for medical certification that are in effect at the time of the competition, or hold a current medical certificate appropriate to the pilot's license from another country or the appropriate form issued by any branch of the U.S. Armed Forces. The appropriate proof of medical certification must be shown to contest officials on request.

All such documents shall be presented upon registration for the contest.



5.1.2 Advanced and Unlimited competitors in the Power category should come prepared to submit Free Unknown figures in accordance with the rules provided in IAC P&P 503.4.3.4.

5.2 Aircraft

5.2.1 Each participating aircraft must have a valid Certificate of Airworthiness or Permit to fly, valid for aerobatic flight, in accordance with FAA regulations.

5.2.2 Each aircraft must have a Certificate of Insurance against Third Party Legal Liability (equivalent to one million USD); this certificate must cover the aircraft for use in aerobatic competition.

5.3 Fuel

5.3.1 Fuel is not included with entry fee. It is available for purchase through Basler Aviation.

5.3.2 All competitors wishing to purchase fuel must fill out a Registration Form with Basler Aviation. This form may be downloaded from the contest website.

6. Banquet and Entry Fees – Power and Glider

Sportsman through Unlimited Categories	\$460
Primary	\$260
Collegiate	\$235
Active Duty Military	\$310
4 Minute Free	\$100

Entry fees include video-taped competition flights.

Entry fee Deadline – **September 18, 2017.**

Late fee after September 18th is 10% for all categories.

Banquet Tickets	\$50
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7. Accommodation and transportation

7.1 Hotels

The following hotels have arranged special rates with IAC for the contest. Please note: to get the IAC special rate you must make reservations by phone and mention the discount code for the hotel.

7.1.1 Motel 6

1015 S. Washburn Street
Oshkosh, WI 54904-8052
Phone: 1-800-466-8356 or 1-800-544-4866



\$49.99 One Queen bed or 2 Full beds per night
plus tax

Group Code: **M45960003**. Must book by August 17, 2017

7.1.2 Hawthorn Suites by Wyndham

3105 S. Washburn St.
Oshkosh, WI 54904
Phone 920-303-1133



\$89.00 Standard Queen Bed per night plus tax

Group Reference: **IAC Aerobatic Championships**. Must book by August 31, 2017

7.2 Camping

Audrey's Park - EAA Camp Scholler
399 30th EAA Street (48th St.)
Oshkosh, WI 54902

\$25/night for RV or tent camping

Contact Jill Schumacher (EAA Campground Manager) 920-426-6134

Space assignments will be given after July 31, 2017.

7.3 Transportation

Hertz is the official car rental company for the championship. Vehicles must be reserved directly with Jim Foytik, Vice President and General Manager for the Appleton, Oshkosh and Fond du Lac, Wisconsin offices.

By phone: 920-739-4774

By email: jfoytik@hertzappleton.com Subject line: "IAC Car Rental".

Discount rates begin at \$25 for Economy/Compact cars. Rates are quoted before taxes and fees. All renters must possess a valid driver's license and credit card in their name.

Vehicles will be available for pickup onsite at the EAA Convention Headquarters on the EAA Air Venture grounds.

8. Logistics

The following buildings will be used for events and activities during the championships:

- IAC Pavilion – General Headquarters and Registration
- Hangars C & D – Free aircraft parking
- Boeing Plaza – Flight line activities
- Founder's Wing (EAA Aviation Museum) – Opening and Closing Ceremonies
- Nature Center – Evening activities
- Press Headquarters – Scoring and Jury
- Hillard Building – Daily briefings



9. Entry Form

All competitors, volunteers, and family members must register online at:



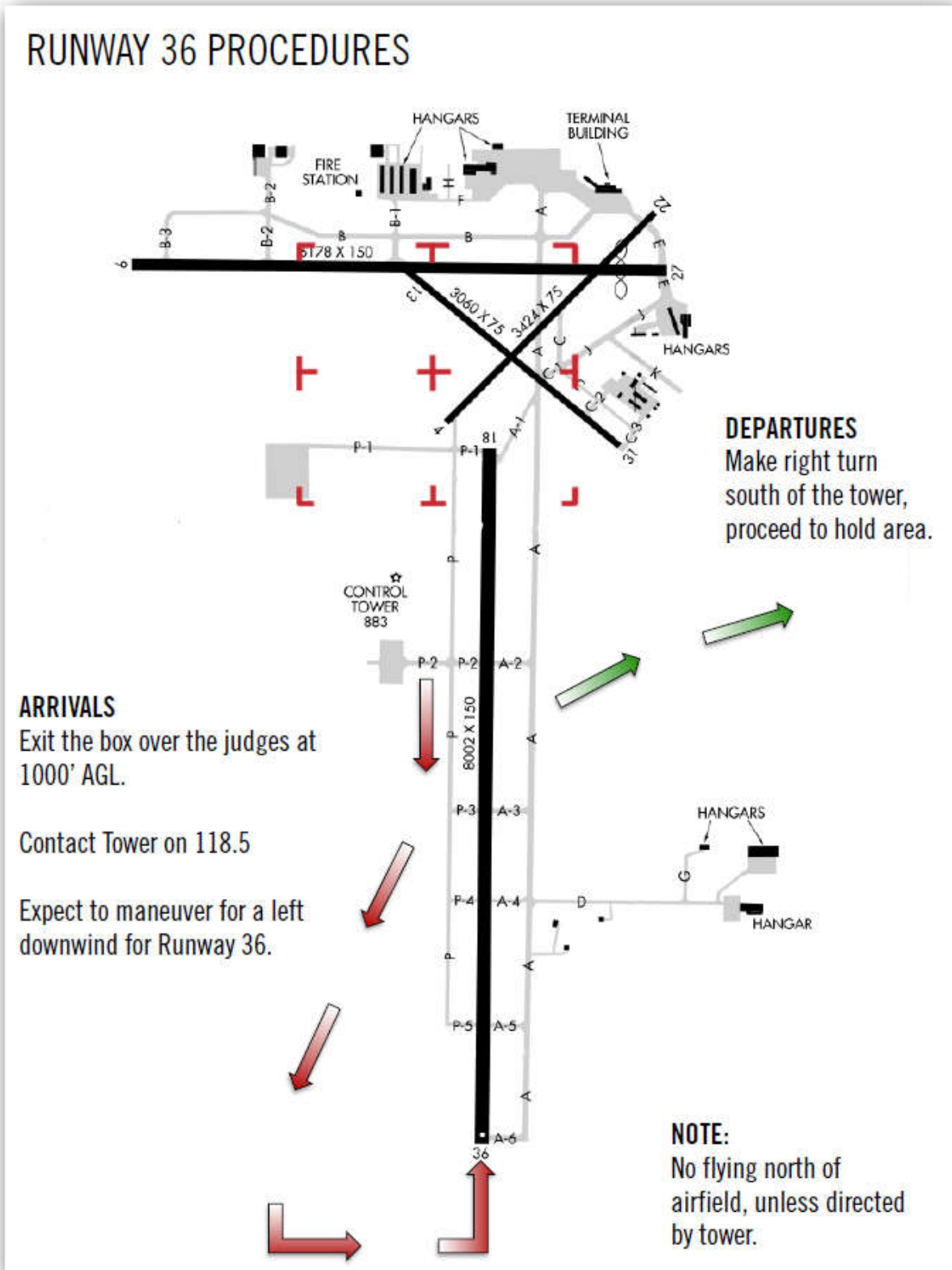
<https://www.iac.org/us-national-aerobatic-championships-2017>

The championship venue is gated and entry onto the AirVenture grounds requires the use of identification as a participant. Therefore all participants are requested to register online so that the proper identification can be provided prior to arrival.

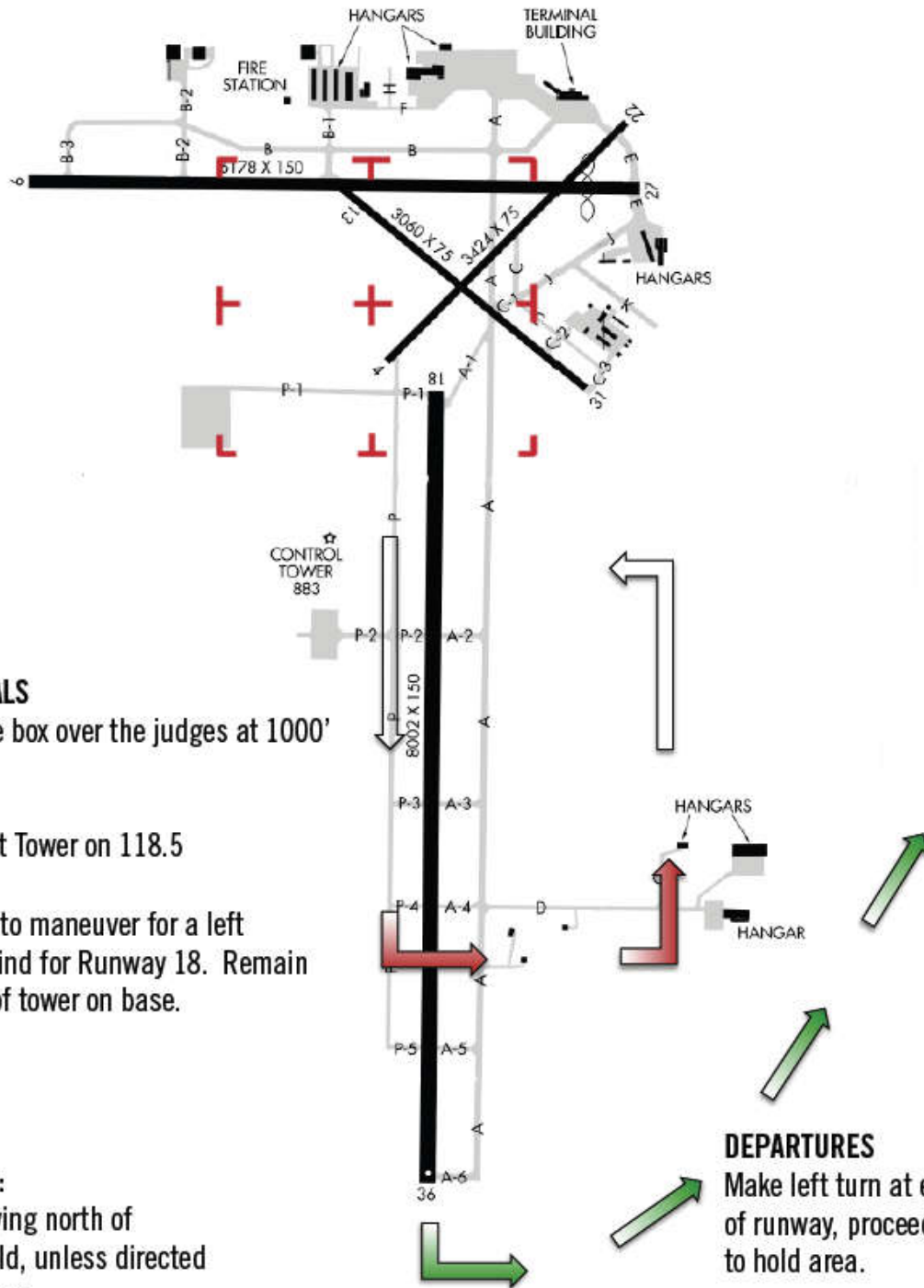
10. CONTACT LIST

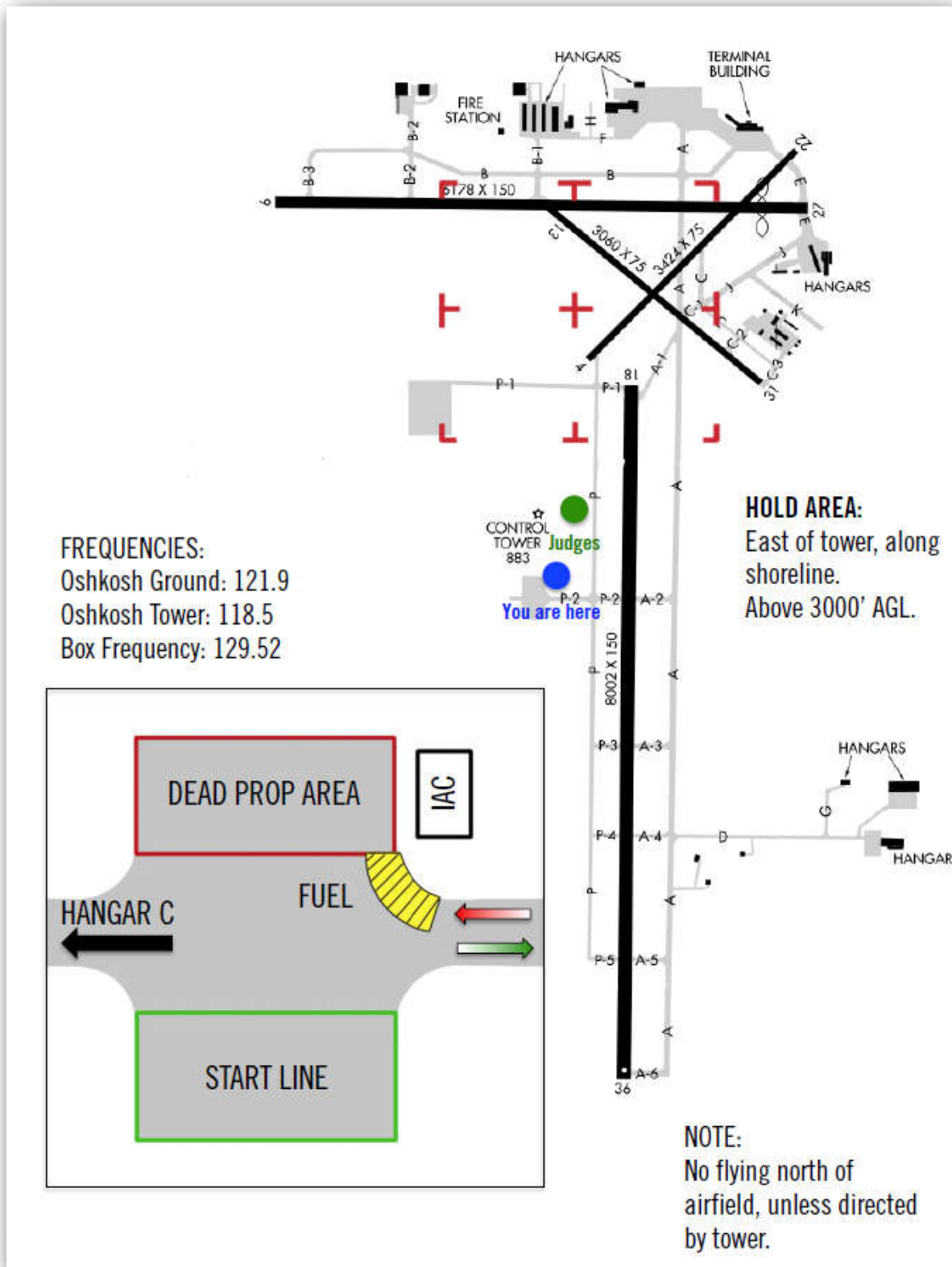
Name	Title	Cell Phone	E-Mail
Mike Heuer	IAC President	(901) 230-9006	mike@mheuer.com
Gary DeBaun	Contest Director	(612) 810-6783	b747inst@aol.com
Bob Harris	Assistant CD	(503) 550-1496	flyhran@aol.com
Lorrie Penner	Executive Director	(920) 479-0597	execdir@iac.org
Liza Weaver	Registrar	(352) 653-9834	liza-weaver@comcast.net
Bob Meyer	Jury Chairman	(661) 917-7984	rmeyer0844@aol.com
Alice Johnson	Volunteer Coordinator	(615) 579-0698	aljohnson487@gmail.com
Monique Hartmann	Communications	(561) 713-4280	mrsoilcan@gmail.com
Tim Brill	Safety Director	(775) 225-3136	tnbrill@gmail.com
Jon Elam	Starter	(256) 394-7169	ifly1jd@yahoo.com
Chris Magon	Chief Tech Monitor	(954) 300-5260	christopher.magon@gmail.com
Evan Peers	Editor & Photographer	(650) 868-8998	editor@iac.org

11. BOX PROCEDURES



RUNWAY 18 PROCEDURES







12. Internet Communications & Social Media

In the weeks prior to the Nationals, news items are published on various media sites including www.iac.org, Facebook, Twitter, *Sport Aerobatics*, and IAC's *In the Loop* e-newsletter. Facebook posts link direct to Twitter so all posts on the Nationals and/or IAC Facebook pages are also tweeted out to subscribers.

While the Nationals is in progress, the Communications Director will post updates and news items throughout the day with these tweeted as well. This will be the primary method of communication with participants as well as updates posted at the IAC Pavilion.

IAC Website, YouTube channel, Facebook and Twitter

Like us on Facebook or join the conversation on Twitter. See aerobatic video on YouTube.

Facebook: @EAAIAC

Twitter: @iachq

YouTube: <https://www.youtube.com/user/EAAIAC>

U.S. National Aerobatic Championships

Website: <https://www.iac.org/us-national-aerobatic-championships-2017>

Facebook: <https://www.facebook.com/USNationalAerobaticChampionships/> (link is external)

Twitter: @USNAcro

Twitter Text Updates for 2017 U.S. National Aerobatic Championships

From your cell phone send a text reading:

Follow @USNAcro

Send text to this number:

40404



If you set this up at last year's Nationals and have been receiving texts since then you do not need to do this set up process again.

This does NOT set up a twitter account for you, this ONLY allows the U.S. National Aerobatic Championships Twitter Page to send you a text with news/updates that are posted on the page.

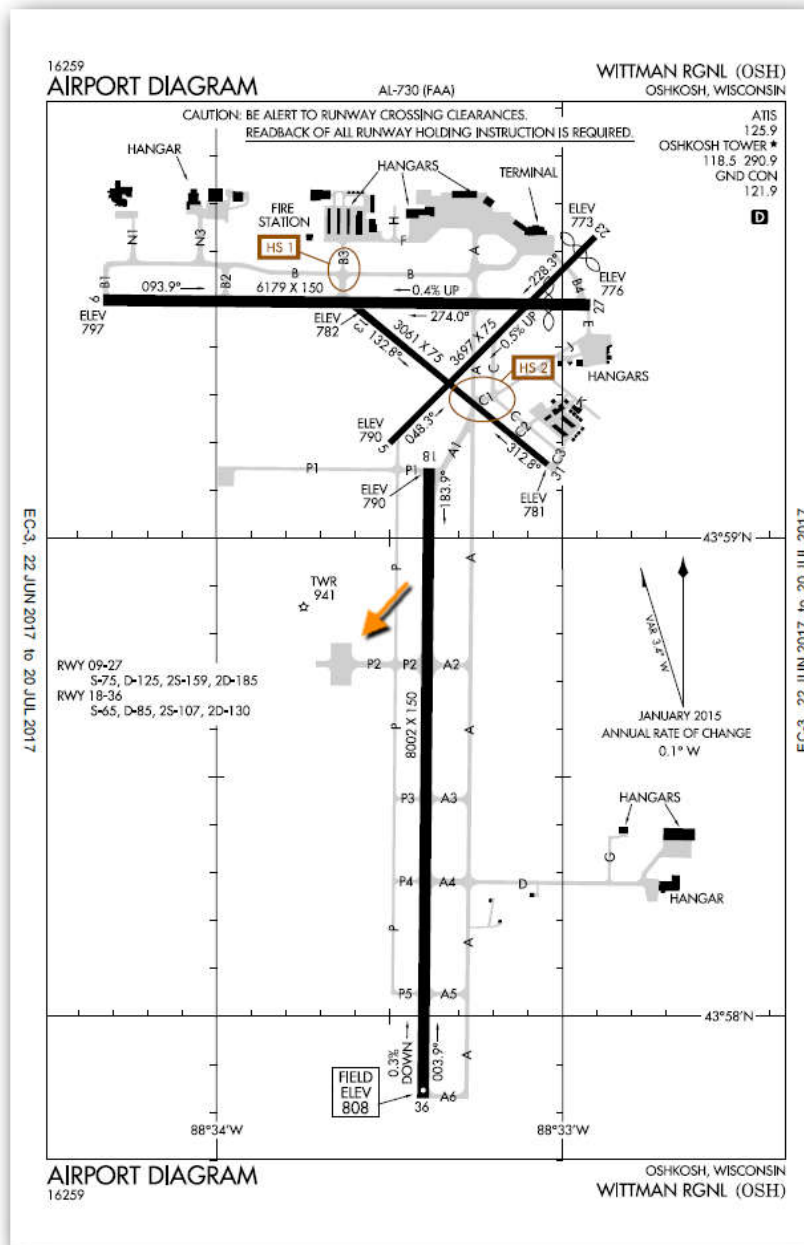
2017 U.S. National Aerobatic Championships
Oshkosh, Wisconsin
Bulletin #1



We urge everyone to sign up for these text messages, this will be extremely useful to get all updates/changes to you pertaining to the contest. The sooner you do this set up process, the sooner you will be up to date on news/changes/scheduling for the Championships.



13. Airport Diagram



Notes: The IAC Pavilion, which will serve as Contest Headquarters, is located on the northeast edge of Boeing Plaza, as shown by the arrow above. Pilots should taxi into Boeing Plaza and adjacent to the IAC Pavilion via taxiway P2.

14. Arriving at Wittman Airport

- 14.1 Taxi to Boeing Plaza where you will be greeted by the Contest Director, a contest official, or an officer or director of IAC. They will give you a checklist of how to proceed, a pilot information package, and the procedure for taxiing to the hangar.
- 14.2 If arriving via car. When reaching the security gate, show the guard your driver's license - he/she will verify with the list of names provided. Proceed to parking as directed by security. Park car and walk to IAC Pavilion where you will find registration.
- 14.3 ID badges and wristbands will be handed out at registration. If pre-registered, they will be sent to you via mail or held at Registration, at the Executive Director's discretion.

15. Scoring at Nationals



Scores at the U.S. National Aerobatic Championships are calculated with the ACRO software, first developed by CIVA in 2007, rather than the IAC JaSPer scoring software used at regional contests. ACRO includes the Fair Play System (FPS) which provides a more robust result by analyzing the judging data and mitigating any inadvertent bias observed on the judging line. Additionally, FPS provides extensive judging performance analysis which the IAC judges at Nationals receive and may use to analyze and improve their future judging performance.

Because FPS is a statistical model, a couple of minor modifications must be made to the Free Program Form A's and how the judges mark a zero grade. Because each pilot's Free Program is different, an additional number called the Super Family (SF) number must be input for each figure such that the statistical analysis is comparing "apples with apples" across all pilots. The SF number is automatically generated by the sequence generating software used, OpenAero or Aresti-Visio. All the pilot must do is to tell the software of their choice to print the SF number on the Form A. Free Programs without the SF numbers will not be accepted at Registration.

On the judging line, the judges will be using a third "flavor" of zero in addition to the familiar Numeric and Hard zeros: the Perception Zero (PZ). The PZ is given for zeros which are totally a matter of a judge's subjective perception, rather than a demonstrable fact: autorotation in a spin or snap; snap rolls in a rolling turn; and sliding in a tail slide. The PZ is treated like an HZ in the



software, that is, it is subject to majority rule, and has no different effect on a pilot's final score versus an HZ. It does, however, allow the FPS system to calculate a more accurate result in addition to providing a more accurate Rank Index for the individual judge's information.

16. IAC Forms to Bring

Please bring **10 Forms A** and **20 each of your B and C Forms** of your Free Program to Registration. There will be limited copying capability in Registration so be sure to provide your own copies.

17. Important Documents

Because the U.S. National is governed by the *IAC Official Contest Rules* as well as the *IAC Policy & Procedures* manual, we urge participants to read the documents posted on our website:

<https://www.iac.org/nationals-2017-special-rules-and-procedures>

Go to “**Important Documents**” and several files are there for your information. These are Nationals-specific and deal with issues such as the Free Unknowns which are unique to the Nationals.

Note that only the Advanced and Unlimited Power categories will fly Free Unknowns. Intermediate Power and Glider categories will fly “canned” Unknowns provided by IAC.



The central graphic shows a blue and red aerobatic airplane flying through a dark blue rectangular frame. The frame is decorated with white and blue geometric shapes, including squares and lines, resembling a grid or a box. The airplane is viewed from a high angle, showing its wings and tail. The wings have a red and white star pattern. The tail is red with a white star. The overall theme is aerobatics and precision flying.

THE BOX IS OURS NATIONALS 2017 OSHKOSH

SEPTEMBER 23-29, WITTMAN REGIONAL AIRPORT



The logo for the U.S. National Aerobatic Championships, featuring a stylized white airplane silhouette flying upwards, enclosed within a red and white circular border. The text "U.S. NATIONAL AEROBATIC CHAMPIONSHIPS IAG" is written in white and red within the border.