

# In The Box

The Official Newsletter of The International Miniature Aerobatic Club



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# IMAC

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## Letters from the Editors

### Rich Whitlow

Back in 2017 I wanted to do something for IMAC. I wanted to do something that would help spread the word and let everyone know what is going on. This culminated into the IMAC InTheBox Newsletter. I watched a lot of YouTube Videos on InDesign to learn how to lay it out. I thought a lot about content and came up with what you experience now.

It has been a challenge and a lot of fun. I was lucky enough to be able to travel to many contests and write a lot of the content myself. After over four years of working on this project, it is time for some fresh blood. This fresh blood is the energetic David Garceau. He has enthusiastically hit the ground running and you are seeing the results of his efforts now.

He has refreshed some areas and has plans for more. I will not be completely out, as I will try to keep providing content as I travel to events. I enjoy sharing my pictures and letting everyone know how a contest went.

But I want to take a minute and thank everyone that has made such kind comments on the newsletter. Please know that I appreciate them all. I know the newsletter is in good hands and will continue to be an asset for IMAC and its members.

So, thanks again and goodbye, for now.  
**Rich Whitlow**

### David Garceau

I'm wondering where 2022 went, it doesn't seem like a year ago when I first chatted with Rich took on the role of "editor in training". With this issue the training wheels come completely off and I'll be doing my best with each issue to bring you updates about our niche in the RC flying world.

IMAC is in a great place today with so much happening around the globe. Please thank those that paved the way for IMAC with their vision and support those that are taking us into the next era. I hope they all take the time to fly and enjoy the amazing friendships they have made along the way.

With a new website launching to add valuable functionality, electronic scoring, and an international presence there will be a lot of info shared in the upcoming issues. 2023 will be an exciting year.

It's your newsletter, so feedback and suggestions are welcomed. I'm going to be looking for your ideas on how to keep improving it!

# Letter from the Past President

**Doug Pilcher**

I would like to say thank you, but not goodbye to the IMAC Organization (family) for these last 15 years. (Almost 10 with the BOD)

I have been and remain grateful for my IMAC family around the world. I have been part of IMAC since 2008 at my local club level in Sherman Texas as CD running the IMAC annual competitions at our club. In 2013 I was asked to be ARD of Texas of the South-Central region and in 2014 asked by the BOD if I would step up to Regional Director by Wayne Matthews. Wayne and the rest of the BOD at that time were wonderful in helping me learn what was expected and needed as an RD. The North Central RD at the time (Mike Karnes) was very helpful in guiding me to navigate the running and growth of the South-Central region. I have made a lot of lifelong friends with IMAC around the world. I was also lucky enough to have my wife Rosie and daughter Leasha helping from local competitions to Nat's and Worlds 18. Also, with a few IJS judging schools in between. I could not have done any of these things without the support of these two ladies.

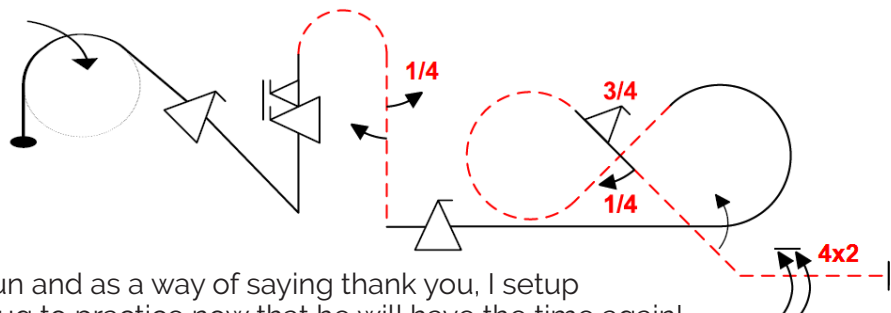


I am grateful to every one of the BOD members and the individual committees and members I have worked with over the last 10 years. A lot of change has happened because of each of them. We were able to integrate the rest of the international community in the growth of 3 additional regions, Asia Pacific, Latin America, and Europe. And I am sure this growth will continue with the eventual break into yet smaller regions among those. I am confident the BOD going forward will bring about many other great advancements and growth to IMAC. I think Alex Dreiling is the perfect man to take the next BOD forward in this growth.

As for me, I do not plan to disappear. I plan to continue with the ISC group and current librarian as well as help with the continuation of the migration to the new website. I also plan to dust off several years of dust from some planes and get some much-needed maintenance completed and get some stick time on them again.

A huge thank you to all of you in the IMAC community for your support in this amazing time I was able to spend with the BOD. I hope you all join me in continuing to help grow IMAC as we move forward and continue to support the organization in the years that come.

**Doug Pilcher**  
Douglas.pilcher@gmail.com  
903-647-2640



Editor Note: Just for fun and as a way of saying thank you, I setup one final figure for Doug to practice now that he will have the time again!



# Letter from the Current President

Alex Dreiling

Welcome to the 2023 season! Some regions have already kicked off their new season with some great contests. Down here in Arizona we just had our first contest of the year and it was a beautiful weekend with notably perfect weather. If you are in a region where it's still chilly weather and prime building season, we want to see those build pics!



We have a new website! Due to several compatibility and security issues, our old website had to go and a new one needed to be developed. The good news is we now control 100% of the site! We have established a small committee of a few members who are helping transition things. One of the main contributors is Dan Carroll. We contacted him late September of 2022 and asked him what options we had. He stepped up to the plate and had a new front end that was ready to go within weeks. We researched outside web developers and the BOD decided it would be best to keep all development in house (IMAC). So, hats off to Dan! To say we're grateful to him is an understatement. When you see him around or see him on the web, make sure to thank him for all his hard work and hours spent! With Dan's help, we will be continuing to update the front end as we go. Currently, we are still working on developing the back end and we thank you for your patience as we persist in this endeavor.

We have started to test the electronic scoring system here in the USA. The NC and SW region have begun to use it with great success! It makes life much easier for the Contest Director when there isn't a scorekeeper available. We are working on a plan to get all regions access to this at some point in 2023. All scorekeepers need to verify that they have the most current version of SCORE! installed with all of the 2023 sequences ready to go. This can be downloaded directly from the website under the "Downloads" tab.

All regions including international regions are now one in the same! IMAC fees have been lowered everywhere in the world and each member can now sign up and renew for \$20. We have also given the same funding and budget to all regions internationally.

I am so honored to be your President of IMAC 2023 and I know each one of you love this hobby like I do or else you wouldn't be here! So please when you ask what your membership dues contribute to, remember the website, scoring platforms, regional budgets, Nationals' budgets for each region, and many other things we work hard to provide you with! We thank you for your participation and contribution to IMAC. It's a pleasure flying with such an amazing group of people.

See you at the field!

**Alex Dreiling**  
President  
alexdreiling@gmail.com



# Notes from the Officers

## Vice President

Jacques Telles



None Submitted

**Jacques Telles**  
Vice President

## Secretary

Rick Crow



We have been busy with rules updates and other things to make IMAC a better organization.

Thanks for your support

**Rick Crow**  
Secretary

## Treasurer

Jim McCall



None Submitted

**Jim McCall**  
Treasurer

# Learning About Aresti!

## Introduction

We are going to dig into Aresti a little deeper with each upcoming newsletter, but to start with here is a little background on how it all started. **Aresti is globally universal, just like reading sheet music!**

When full scale aerobatics first came into being in the 1920s, there was no good method for pilots to explain to others what they were going to fly. Some used their own method of shorthand notations, others would describe the maneuver with various words and phrases. But as the sport of aerobatics began to mature and spread into international competition, the need for a standardized method to describe aerobatic flight maneuvers grew due to language differences.

In 1961, the Spanish pilot **José Luis de Aresti** published an aerocryptographic system to describe aerobatic maneuvers that broke down individual pieces into lines, curves and rotational elements. This **Sistema Aresti**, or **Aresti System**, was adopted by the Fédération Aéronautique Internationale (World Air Sports Federation or FAI) as the official method of aerobatic sequence description at the World Aerobatic Championships in Bilboa, Spain in 1964. Today, the Aresti System – called Aresti for short – is in use worldwide. It allows a Russian pilot to fly a U.S. sequence in front of an Italian judge and no one needs to speak a foreign language to make it happen!

# The International Sequence Committee, A Peek Behind the Veil!

Every IMAC pilot knows the thrill (or dread?) of receiving the unknown sequences at the end of the day on Saturday. The angst of visualizing and memorizing the sequence without actually putting a plane in the air, and then the anticipation of getting one chance to get it right and outscore your competitors. Nothing levels the playing field for pilots like a challenging unknown sequence. But where do these sequences come from?

On nearly every weekend of the year, somewhere in the world, there is an IMAC contest looking for unknowns. That's four original sequences roughly 50 weekends a year, or 200 original sequences every year. These sequences are all constructed by the hardest working committee in IMAC – The International Sequence Committee (ISC). As of this writing, there are 9 people currently working on the committee, and we're seeking additional help, but more on that later.

So how are these sequences developed? For many years, the ISC has used Microsoft Visio and a free add-on for Aresti. Although a very powerful program, Microsoft Visio required a lot of work to draw and place figures in a clear format, and properly placing and showing roll elements took even more work. Sequence authors would spend a couple of hours or more creating sequences. But that is just the tool for drawing the sequences. How do the authors know what figures and rolls they can use?

IMAC uses the Radio Control Catalogs from Aresti Systems, currently the 2018 versions. Those catalogs were developed in cooperation with CIVA, IAC, and IMAC to identify the legal figures for each competition class. Those catalogs contain the rules for sequence construction, and each sequence author must know those rules as they construct a sequence. For example, did you know that Sportsman unknowns cannot exceed 360 degrees of roll on any line and that there cannot

be any unlinked roll elements? There are also restrictions on where quarter or three-quarter rolls can be used. There are similar restrictions for Intermediate, Advanced, and Unlimited. Yes, there are limits on Unlimited.

So the sequence designer has at hand the software and the catalog of figures. But just like having a dictionary and a pen is not sufficient to write a story, the sequence writer must bring the elements together. Like an artist painting a canvas, the sequence writer begins with a rough vision of what they want to create. Some work one figure at a time, adding roll elements to base figures one figure at a time. Others create the sequence of base figures, then go back and add roll elements, like an artist adds color details to a painting.

But just putting the figures on paper still doesn't get the job done. The author must be continuously thinking as the sequence builds. Where is the pilot going to fly this figure? Is it going to make a tight footprint where it's easier to see the plane, or is it likely to send the pilot way out to the ends of the flight area? Is it going to send the pilot further from the flight line? Will the judges be able to see the elements? The sequence committee has several guidelines, in addition to the construction rules, that we use. For example, we try to minimize the use of a 45-degree line away from a center box figure. Those elements are best performed across the center. So the author may skip a center box figure and use two turnaround maneuvers to include those 45-degree lines. Similarly, the number of roll stops on uplines and downlines may be limited to avoid forcing the pilot to extreme altitudes. The sequence author is looking at the box as 9 zones (left, center, right; low, medium, and high), and trying to use each zone for a balanced sequence. The use of x8-point rolls is typically limited on the high zones because it's too hard for the judges to see those elements.

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Finally, the sequence author must be careful about the final K factor of the sequence. Unknowns generally target 80-90 percent of the K-factor for that year's Known sequences, but it may be possible to see unknowns over that value.

Once the author has written a sequence that he or she believes meets the standards for a good sequence, he or she submits it to the committee for review. Two additional committee members review it before it is released for competition. Once it passes the committee checks, the Librarian adds it to the available sequences for issue. Only the Librarian knows which sequences are used on a given weekend, and every IMAC competition on a given weekend uses the same sequences.

## Now for some good news!

Over the past several years, a new software product has come on the scene. OpenAero is an open-source web-based sequence drawing program that has taken much of the hard work out of sequence writing. CIVA, IAC, radio control pattern and many other organizations around the world have already adopted OpenAero as their choice for sequence writing, and as of this year, IMAC is joining their ranks. OpenAero has the benefit of having catalogs of allowable figures built into the software. The rules for sequence construction are built-in and automatically checked, creating alerts to the author when something isn't correct. It still requires the author to consider the sequence footprint and is by no means automatic, but it is a huge improvement in our process. And because it's free, anyone can try to write sequences.

But why would anyone want to write sequences? In my years of IMAC competition, I've met several pilots that wanted to be members of the ISC, but the barriers of access to Visio and the catalogs made it too difficult. The ISC was almost a secret society that was very difficult to break into. We are trying to change that, and beginning this year, we are going to allow ANY IMAC Member to submit unknown sequence proposals to the committee. Using OpenAero, the author can write a sequence, include their IMAC Number and email address in the comments for the sequence, and send that sequence to the ISC Chair (me). I will put that sequence into the checking process. Any committee member may review the sequence, and provide comments/recommendations to the author for resolution. Once two independent committee members check the sequence, the original author will get credit for the submission.

And the first 10 IMAC members completing five full sets of unknowns (5 Sportsman, 5 Intermediate, 5 Advanced, and 5 Unlimited) will get a free 1-year IMAC membership.

And before you ask, you don't have to submit all 20 sequences at once. If you're just starting, start with Sportsman, write one sequence, get feedback, and then work your way up. Yes, you can submit unknowns for your class. We'll try to make sure an individual doesn't try to fly a sequence they've written, but over the years I've found I wouldn't recognize a sequence I wrote a few weeks after I wrote it anyway.

There are several resources available for writing and checking sequences, and they are available at

<https://imac-cloud.diamondcomp.com/s/OXGkErHi52IBQTQ>

There are two 90-minute recordings of training that we did for the sequence committee regarding sequence construction, there is a sequence writing do's and don'ts document, and a couple of images with tips for writing good sequences.

OpenAero is very easy to access. Simply open your browser of choice, although Chrome is recommended, and go to

<https://Openaero.net>

The application will run in your browser. On the left side of the window, you'll see sequence info. Don't worry about the Pilot, Team, Aircraft Type, or Registration. Below that information you'll see selections for Power, then Rules, Category, and Program. Under Rules, select IMAC, then choose the class and program from the available dropdown selections. Now you're off to the races selecting figures and roll elements.

I also recommend using the IMAC Forums (Hanger) to discuss sequence construction. It's a great place to ask questions, and I'll keep an eye on the discussions to ensure things don't go too far afield. And if you turn out to be a prolific sequence writer, don't be surprised to get an invitation to join the committee.

**Brad Davy**  
International Sequence Committee Chairperson  
Bdavyg2960@msn.com



# BE PROUD # IAmIMAC

## INTERNATIONAL MINIATURE AEROBATIC CLUB

### What does this mean? Where did this come from?

I was enjoying some great live music (Samantha Fish & Johnathon Boogie Long) in downtown Baton Rouge, and I noticed a bumper sticker on the wall of the club that was leftover from a Baton Rouge Downtown marketing campaign. The bumper sticker said #IAmRedStick. This caught my attention and I started to think about what that message means, or could mean. Then an idea was born.

We all see the finger pointing all over the online world exclaiming what is so wrong with IMAC. We do it on Facebook, we do it on the Public Forums and we do it on the IMAC Forum pages. Everyone has an opinion of what Somebody Else can do to make IMAC better. When the truth is every face to face IMAC event and IMAC competition is typically a wonderful experience.

### What is the disconnect?

I believe that what it boils down to is it is up to each and every one of us to take responsibility and say "I Am IMAC"! If I think something needs to be done, I am the one to make sure it gets done. If I meet someone who is interested in IMAC, I am the one responsible to explain IMAC in such away that they walk away with a positive opinion of IMAC. IMAC and IMAC competition is not for everyone. But, there must be a positive message presented to one who is new to IMAC so that they can determine if IMAC is what they are looking for.

It is imperative, if we want to continue to grow as an organization (and yes I meant to say continue to grow!) that we highlight the positives of IMAC and we not only present them, but we believe in these positive aspects. It is obvious when you are speaking with someone, if you do not believe in what you are saying. Especially when it is something that so many can be passionate about. Every post, conversation and comment can potentially influence someone or change someone's mind about IMAC and what it is about. In just about every little informal survey I have done, the number one thing that pilots say is key to why they continue to fly IMAC, includes the fact that the people are great and they love their IMAC family. So, when someone new is asking about IMAC let's be one of those great people and let's highlight this to them. Its easy.

Lastly, take pride in what IMAC is. This is an International Family of great people, who happen to love RC Aerobatics. That's it. Wear your IMAC shirts with pride, your IMAC hats, your event shirts and take offense when someone is talking down your IMAC. There is a place for constructive criticism, but in the Outrage Happy world, it is easy for people to cross the line from constructive and destructive. Ask the person (or yourself) what positive thing will this comment do for IMAC. If no positive aspect can be accounted for, then maybe that comment should be left unsaid or typed.

So, now you know. Tag yourself and others. Raise up those doing positive things for IMAC and question those that are not doing things that will ultimately help our beloved sport.

Rich Whitlow #IAmIMAC

# Our New Website Design

## Dan Carroll - Webmaster

Hello, my name is Dan Carroll and I've been involved in IMAC Australia for about 8 years. In that time I've had a few roles, mainly being CD for competitions and the "State Rep" which is kind of like the ARD role in the US, and then later I served on the committee for a few years as the National Contest Director. But by far the most work I've done is to maintain and develop the IT integration surrounding our scoring software. I'm the main developer of Score! as well as the well used ScorePad iPad software that's very popular here in Australia.

For a little while now, I've been involved in the update of the main IMAC site and as you can see, the old website has now been migrated to a new platform. The old site was using a long ago unsupported piece of content management software which could not be upgraded and it was becoming more difficult to even update content. It was also a major source of security problems and so we really needed to move on.

The new site is running on one Joomla, a popular CMS tool that has a good track record of support and offers plenty of features. Right now, we have the basics up and running but it's a work in progress and we will improve on it over time.

Currently, regional directors can write articles that are posted to each of the region pages and we hope that the RDs will take the opportunity to keep everyone informed here. The points section is a copy of the data from the old site while I finish off the code to import the data from uploaded results. The results pages are also turned off currently as they do still need to be migrated. This will be done when I can get to it as there are a few things I need to arrange first.

What's coming up?

Shortly, I'll have the basic event registration system in place. This will enable CDs to create events and for pilots to register for them after they have been opened for entries.

Results processing for competitions.

RPS calculations and tallying

Email Migration - The old email addresses for mini-iac.org still work but we also be transition those to a new platform.


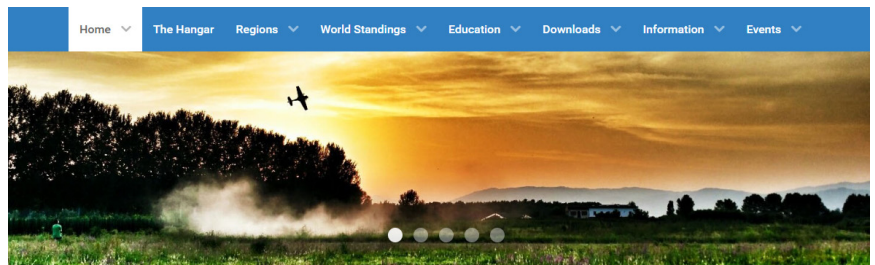
I hope to build on this base in the future and build a website that will serve the IMAC community well...

In the meantime if you wish to get in direct contact with me, you can email me at

[webmaster@mini-iac.org](mailto:webmaster@mini-iac.org)

or by creating a support ticket from the Home->Create Ticket link (Choose website for it to come to me).

**Dan Carroll**  
Webmaster




**WHAT IS SCALE AEROBATICS?**

Scale aerobatics is aerobatic operation of a radio controlled scale model of full-sized aerobatic competition plane.

*A little about the sport*

[Read More](#)




**HOW TO BEGIN?**

We can assume that you are tired of flying in circles, practicing your landings, etc. and looking for a new R/C challenge...and you are in luck!

*Getting started in competition*

[Get Started!](#)



**JOIN IMAC**

The International Miniature Aerobatic Club (IMAC) is an organization dedicated to competitive sport of radio controlled Scale Aerobatic competition.

*Support Scale Aerobatics!*

[Read More](#)

# An Event "In The Box" Package

## Promoting IMAC to new club locations

At the almost rained out 2021 S.E. Regional finals, just over a year ago, an idea was formed to find ways to promote IMAC at clubs and in geographic areas where we didn't have much, if any membership or participation.

That idea finally became a reality with an "In the Box" event package.

For someone with no prior experience in IMAC, and especially for a club that has not previously held an IMAC event, the thought of starting out can be quite intimidating. We didn't want that to be a roadblock.

As ambassadors we cannot let this hinder the growth of our club. Promoting IMAC and increasing the membership is essential. Without it we wouldn't have new pilots to fly in contests and worse yet could end up having just a few limited places to fly.

So, we set out to find a new club that had interest but didn't know where to start. The concept is simple, once we found a new host site, we would bring ALL the resources to the club to run and manage the event - All they need to do is provide the field and a pilot's lunch or meal. Everything else would be run by a group of experienced event volunteers.

Let US bring the IMAC event to the new club instead of overloading them with details

Aka an event "In the Box". A fully packaged, prepared, and delivered event so that the new club's membership has an excellent experience at their home field. Properly executed, their membership will want more, and the club can learn from it to host future events.

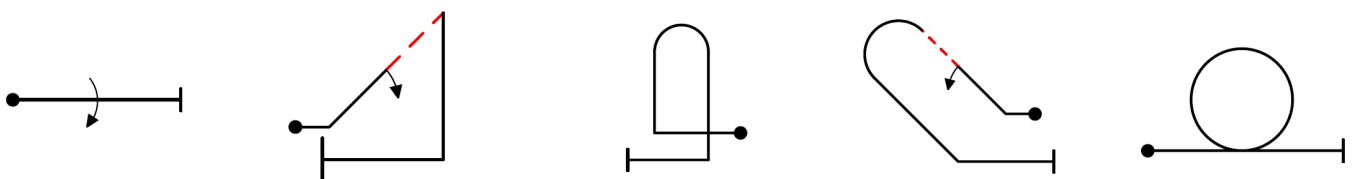
As a now experienced event CD and scorekeeper, as many of you are, I have everything needed to run a contest at my disposal. It's often packed into my trailer when going to events anyway just in case any of it is needed... So why not take it on the road to a new field?

The offer to do this was circulated within several new clubs and two are now going to host events. The first one is going to be the "Tarheel Summer IMAC contest" in Elm City North Carolina on July 15th and 16th. Hopefully many of the readers can make a special trip to help show this club what a great organization they are going to get involved with.

On the next page you'll see a similar idea that was happening half the world away. Is anyone else doing something like this? Would you like to? and do you have any suggestions on how to make this even more beneficial?

I'd love to get some feedback and discussion going to see how else we can develop ideas.

David Garceau





# IMAC Starters Boot League

## Introducing IMAC to new pilots

ABOUT THE IMAC STARTERS BOOT LEAGUE:

The challenges that came with the beginning of 2022 required us to figure out ways to overcome overly high expenses and travel issues. This became the next challenge to overcome itself. Thus, the IMAC Starters league was born.

It is a sister league of the regular IMAC league, giving the newcomers the chance to learn directly from some of the best pilots and judges from the regular league.

Its goals are:

- a) Discover new talents disregarding the age or renown of the pilot (we have had some great surprises from pilots over 60 years old)
- b) Create a line of new coming non flying judges.
- c) Promote aerobatics for pilots that want to join the regular league soon in the future or just want to have a great day
- d) Host contests that are extremely affordable, easy to host and quick paced.

Our results in the tests conducted in January and March in México and October and November in Colombia are very flattering. The same is starting to show as 2023 is going by.

In our worst-case scenario one of the invitations was released just 36 hours prior to the scheduled date. Even though 7 new to the sport pilots and 2 new coming judges showed up traveling from 3 different states and bringing planes ranging from small electric/glow sport planes to medium sized gassers.

In our best-case scenarios with Starters contests advertised with plenty of anticipation, we got 15 new registered members for IMAC Colombia alone.

There's actually a report from Mr. Manuel Prado, IMAC Colombia Director. You can find it here:

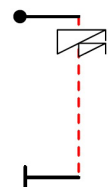
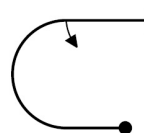
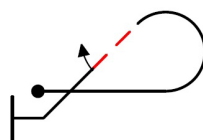
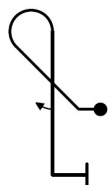
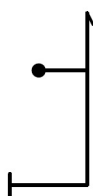
<https://mini-iac.org/articles/regional/int-la/primer-imac-starters-colombia-octubre-23-2022-1st-imac-starters-series-in-colombia>

Inquiring further made us realize a lot of people have been wanting to compete for a long time, but they felt overwhelmed by the amount of scheduled dates, distances to travel, length of contests, size of planes usually found in the regular season and so on.

What was the lesson brought by the trial contest? People crave to give IMAC a try!

It's up to us to give more options to deal with the needs our pilots have. The only question I can think of is, why not?

Oliver Soto



# Regional Reports

## NE Regional Director

Dave Dupre



No Article Submitted

Dave Dupre

Northeast Region Director

Friday will be a day to spend as a clinic, plane set up, engine tuning, IMAC flying, etc. So, bring your planes. Saturday and part of Sunday will be the rules training, in class time followed by going out to the field and putting words into action. Who knows you just might be called to fly in front of 20 plus eager students that are ready to hand out zeros.

#LOVEIMAC  
#IMACARTINTHESKY

Primo Rivera

Southeast Region Director

## NC Regional Director

Toby Silhavy



### FREESTYLE IS BACK IN THE SE!!!

As many of you may know, thanks to the generosity of one of our Southeast members, Bill Daniel to be exact. The Southeast Region will be giving away a 100cc Extreme Flight plane to the top FREESTYLE season points winner.

The idea is to promote new young members and maybe juuuust maybe get the blood flowing for us older guys. It already has proven to be a great idea, remember those three new Basic pilots I mentioned? Well, two of them were there just for the FREESTYLE and after seeing how much everyone was enjoying each other's company, BOOM just like that they fell in love with IMAC. THANK YOU BILL.

It is going to be a great year, I already have the location for Regionals and we are going to have visitors from Mexico there. More details on that later in the year.

I will share my time there and my trip to Tucson in the next IN THE BOX! but for now, dust off your radios, kick the tires, well, please don't do that. Work on a FREESTYLE routine, come out, and have fun.

Well we are preparing and building planes this winter to prepare for the upcoming 2023 season. A lot of time and money is spent each winter to have a happy successful season (no matter the outcome at a contest) where we enjoy our friendships and get to do quite a bit of flying in the end. Jeannette and I are preparing to have a great season and I'm happy to say both my boys are in the process of building IMAC rides. So, over the next couple of months go over those airplanes. Check your radios and clean those gimbals with some cotton swabs as I'm sure they are dirty from a year of dust. Go over those planes with a fine tooth comb. Check your batteries and cycle them at least twice before you start the new season. If you are reading a 10-20% drop from what you are use to then recycle those batteries for your fuel can and get yourself some new packs. Your servos, linkages, tailwheel, landing gear, exhaust should all be inspected.

## SE Regional Director

Primo Rivera



Dear Southeast IMAC Pilots. The 2023 season has begun with a big bang. With 21 pilots and the re-incarnation of FREESTYLE, it sure looks to be a fantastic season. We have a total of 16 contests currently planned for 2023, 5 of them in the NC, SC, and GA area. Our own In the Box Editor has been working extremely hard to build up pilots in the north side of the region. In fact! We had three new members at the season opener. Two of them participated in FREESTLYE.

This month we have an in person Judging School, (ABOUT TIME RIGHT!) Not just a normal school,

A couple bucks now may prevent you from a lot of heartache later. One thing I always try to do at the beginning of the season is to go over my vehicle and trailer to make sure all grease fittings are greased and that I have all the tools I need and to have a spare for each part in my plane if I can. Getting organized with take apart tool boxes like the Packout, Flex, or Craftsman is always a great choice. You will be surprised at the end of the season the amount of tools and parts you start carrying with you. In the end, being prepared will make your flying weekend more enjoyable or make someone else's weekend more enjoyable due to your ability to assist them.

Well spring is around the corner and its time for judging school(s). This year, we are again, focusing on the new pilot. We will be having several online schools this year. On March 4th, we will be having an introduction to IMAC, on March 18th we will be hosting an online school focused on what to expect being a Basic pilot. I would highly recommend these to any newcomer or a seasoned Basic/Sportsman pilot. We will have several experts there to help answer any questions you might have. Please stay tuned to the NC Region page of [www.mini-iac.org](http://www.mini-iac.org) for the gotomeeting announcement link. We will also be adding this year contest director/scorekeeper training this year. I would ask if you are in either of these two roles to please attend as many new items are being covered to prepare new contest directors and scorekeepers on how to use the Score! program and how to use electronic scoring. We as a country are going to be going to electronic scoring and I am proud to announce the North Central was the leader in this. I also have some new easier and faster compilations being used this year. The team who has been

developing these systems spend a lot of personal time and a lot of their own monies to bring a better, faster, and a system prone to less human errors. So please, your kind attention is very much appreciated!

Well; my NC IMAC family, this will be my last month as Regional Director. My wife and I came to this decision in the last few weeks due to my Parkinson's. I've been in full computer/electronic design of our newest scoring system (again, thanks to everyone helping me!!!!)/IMAC governance/District Director duties and I'm spending on average three nights a week without sleep and its become pretty unhealthy for me. This decision doesn't come lightly and I'm looking to have brain surgery in the near future to deal with my Parkinson's. I don't know how much recovery time this will require but I'm sure it will not be easy. I feel IMAC needs me to assist in getting the USA and several parts of the world up and running on electronic scoring and I'm going to pursue that in any means IMAC deems necessary. I have been assisting other districts implement iPads and a newer system being developed. I have spent several hours talking with Jaimy Hicks and he has showed the willingness and self sacrifice this job entails. I have recommended him to the board of directors and they will surely approve him for the position. He has the TALENT, WILLINGNESS, LEADERSHIP this region REQUIRES to keep the ship running as they say. I'm proud to call him a friend and the NEW NORTH CENTRAL REGIONAL DIRECTOR. He has asked me to remain on as an ARD and to head up regional scoring/wireless scoring for the near future which I'm glad to offer. THANK YOU EVERYONE FOR YOUR SUPPORT AND KIND WORDS DURING THIS TRANSITION!!!! I'll still be going

to IMACS and you will still see me, just in a lesser role (thank God) and hopefully more rested than I currently am!

With Respect,

**Dr. Toby Silhavy**  
North Central Region Director

## SC Regional Director

**Tim Hughes**



Hello South Central,

We are just about to kick off our 2023 season. I hope everyone has been getting lots of stick time and emptying fuel cans to getting ready. We have our online judging school in just a couple of weeks to get everyone ready for the new season. During the 2022 season we saw many new pilots trying out IMAC and some IMAC pilots who had been away for a while. Looking forward to seeing them again this season as well as all the friends I have made in the years since starting IMAC.

Our first contest on the schedule is the 2nd Annual Jetero IMAC Challenge. This was a great contest last year. Very nice field to fly at and the club members were very supportive. If you can make it, it is well worth it. The remainder of our contest schedule is mostly done. We do have a few more contests which may make it onto the schedule as well. One in Wrightsville which we have missed for a few years. Everyone talks about flying there and missing it.



I would like to say a special thank you to all the ARDs who have been a huge asset helping me with the Regional Director duties. I can tell you, they are doing a lot of work you don't see and helping me not only get things done, but letting me know what needs to be done. Both Doug and Alex have been a major asset as well. We all know Doug has done it all and he has been a wealth of information and help. Alex has been a great resource and encouraging.

Fly big and smooth,

**Tim Hughes**  
South Central Region Director

middle of April, and we are ready for some warmer flying weather!

We're looking forward to the 2023 IMAC season in the NW.

**Tim Cooper**  
North West Region Director

## SW Regional Director

**Kevin Garland**



Our new schedule event is the Oakdale Spring Fling run by Mark Huntley.

Pilots be sure to sign up for all contest you plan to attend this year. This goes a long way in helping CDs prepare for their contest! Also, if you plan to not come and you are signed up, please take your name off the list. Are you interested in running a contest? We are always looking for CDs to run events! Please feel free to contact me for more information on how to become a CD and run your own IMAC event. See you at the field! Try to stay dry this rainy and snowy season in the Southwest!

**Kevin Garland**  
Southwest Regional Director  
Garlandk89@gmail.com

## NW Regional Director

**Tim Cooper**



The Southwest IMAC region already has over 10 contests on the schedule for the 2023 season!

The first contest of the year was completed the weekend of February 4th in Florence Arizona. We had a great turn out with over 20 pilots participating at the event. During this time of the year Arizona weather can be hit or miss and it was the best flying weather! A huge thanks to Alex Dreiling and Jacques Telles for running the event. At this event we introduce the new electronic scoring. Judges still wrote down scores the normal way, but when the round was completed, the judges entered the scores on the ipad system. This was a great introduction to the system, and it allowed immediate results of the standings after all of the scores were inputted into the ipads. We hope to take it to the next level in allowing scribes to use the system on the flight line at the next event in the Southwest Region.

Sadly, our second event of the year had to be postponed due to weather. Be on the lookout for new dates for the Hemet contest!

Greetings from the North West.

Aside from learning about the responsibilities of the Regional Directors position things here have been pretty quiet.

Our first event of the year will be an online Judging school happening the first weekend in March.

Here in the North West we all look forward to this as it is the first light, so to speak, of the new coming season. We have some great participation this year with 8 pilots from sportsman-unlimited volunteering to help present slides.

Our first flying event will be in the

## Europe Regional Director

**Manrico Mincuzzi**



Manrico has dedicated much of his time to the 2023 European Contest schedule for August in Leszno Poland, With over 100 pilots already registered there is now a call for dedicated Judges to participate!

Check out the full details here:  
<https://www.imaceurope.com/imac-europeans-2023>

**Manrico Mincuzzi**  
European Regional Director

## Asia-Pacific Reg Director

Michael Hobson



No Article Submitted

**Michael Hobson**  
Asia-Pacific Regional Director

## Latin America Reg Director

Oliver Soto



Dear friends and fellow IMAC'ers:

As we begin the new competition season and the year itself, I want to express my gratitude for your commitment.

The Region is starting to really rise in areas such as membership, technical knowledge, and in the near future in the number of judges as well.

As I write this (literally) IMAC Colombia is holding its 1st contest of the year and a new region just opened in Mexico with a Starters Boot Contest with a great turn up, I must say!

ACTIONS, PROJECTS AND NEW ENDEAVOURS:

After the pandemic, we got to see an increasing number of contests. Most noticeably in Argentina, Brazil, Chile, Colombia and México, having even binational events held in between IMAC Argentina and IMAC Chile respectively.

The region is experiencing an interesting awakening. Activities from several countries sprout more often every time. We started getting plenty of reports directly from the National Directors themselves in numbers that made me ask Rich Withlow for some extra space in the "In the box" magazine so their work gets reflected globally, to which he graciously agreed.

BREAKTHROUGHS:

As mentioned above, we started a more energetic approach towards a stronger membership in LA. This includes the very successful introduction of the Starters league.

As a direct result, we got over 50 new members just for the region together with the full support of Manuel Prado, Lucas Laforte, Carlos Vargas, Memo Lomeli, José Carlos González and Ricardo Lomeli.

Also, many thanks to the National Directors and collaborators that have helped growing the membership and the number of new competitors in LA.

Working hand in hand with them, I'm sure during the rest of 2023 the membership will rise to a number we have never seen before throughout IMAC history in Latin America!

I applaud the new coming pilots that are starting to attend contests either in the regular

season or the Starters league. Overcoming the stage fear is just the first step towards a whole new world in the aerobatic arena!

This is also true for the new judging lineup, which this time includes the first fully qualified female judge: Andy Rosano. Soon we will be hearing of a second lady to be officially certified as judge for our region.

I hope to see you all in the fields again soon ready for the 2023 adventure.

Warmest regards.

**Oliver Soto**  
Latin America Regional Director

**\*\* Some useful links for the Latin-America region from Oliver:**

All the information, happenings and pictures in the region show up here on FaceBook first:  
<https://www.facebook.com/profile.php?id=100063802510541>

Articles can be found here:  
<https://mini-iac.org/reg/int-la>

and don't forget about our IMAC forums page:

<https://forums.mini-iac.org/forum/regions-aa/international-latin-america>

**Oliver also submitted several pictures from his region's activities that are highlighted on the next page**





# RECONOCIMIENTO DE LOGRO

Se extiende con orgullo el presente reconocimiento al señor

CARLOS VARGAS

como muestra de aprecio por su esfuerzo e invaluable aportación al crecimiento de la liga de competencia de precisión IMAC en la Región de América Latina a través del Mass Registration Program.

*Alex*  
**Alex Drilling**  
 President  
 International Miniature  
 Aerobatic Club

*Jacques*  
**Jacques Telles**  
 Vice President  
 International Miniature  
 Aerobatic Club

*Oliver*  
**Oliver Soto**  
 Regional Director  
 IMAC Latin  
 America





## 2023 Plane Nutz SE Region Season Opener.

Nothing could have prepared us for this event !

It was a record breaking event (for us) with 21 pilots checked in, some traveling long distances to attend from three regions. They still showed up despite forecasted inclement weather.

The pilots were fairly evenly spread through the classes from three brand new basic pilots to four incredible unlimited pilots.

Friday's practice day was awesome. It was a perfect Carolina Spring day, warm sunny weather, a light breeze, with planes lined up 8 deep ready to fly! The fellowship and spirit of IMAC was strong, when contestants had issues there were people jumping in to help.

Saturday was forecast to be wet, but the weather held off until about 3pm allowing us to have a pretty solid contest day. The club provided a pilots lunch and even brought a birthday cake for on member who celebrated his birthday by flying with us.

Sunday morning was dreary, and no matter how many times we checked the ceiling it just wasn't favorable for the unknowns.

Instead of being disappointed, we jumped right into our freestyle contest. The SE region is giving away a 35% plane for the season points winner this year - so the energy from those pilots was just insane... You could feel the crowd roar when one of our new basic pilots went into a low cloud and came out doing a perfectly intentional knife edge spin! Jawdropping to say the least and yet he didn't even win!

Eventually the contest was called. Awards were handed out but the energy and enthusiasm of the pilots never faltered.

If this is an indicator of things to come in 2023 it is going to be an unbelievable year. The hosts at Plane Nutz loved having us there and are making plans for a fall event.





# Upcoming Events

## March 2023

Date	Event	Region	Location
03/04/23	Leeton Phantom Fly-in	Asia Pacific	Leeton Airport
03/11/23	Oakdale "Spring Fling" IMAC	Southwest	Rc Flyers Unlimited
03/11/23	2nd Annual Jetero IMAC Challenge	South Central	Jetero Rc Club Inc
03/11/23	Ocala Spring IMAC	Southeast	Ocala FL
03/11/23	Introduction to IMAC	North Central	
03/11/23	IMAC Cuautla	México Centro	
03/18/23	BASIC JUDGING SCHOOL	North Central	
03/18/23	Kingaroy IMAC	Asia Pacific	Kingaroy Aeromodellers Society
03/25/23	Tucson IMAC	Southwest	Tucson Radio Control Club
03/25/23	West Texas Challenge	South Central	Permian Basin Model Aircraft Club
03/25/23	SE Region Judging School	Southeast	Tabor City NC
03/25/23	Wings over Wangaratta	Asia Pacific	Wangaratta Aero Modellers

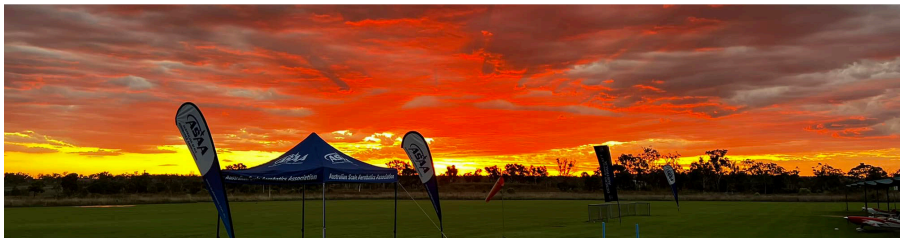
## April 2023

Date	Event	Region	Location
04/01/23	Salinas IMAC I	Southwest	Salinas Area Modelers
04/01/23	AMPS Miami IMAC	Southeast	Miami FL
04/01/23	CD / Scorekeeper Training	North Central	
04/02/23	IMAC at Whitfords	Asia Pacific	Whitfords Mac
04/08/23	NQ Easter Escapades	Asia Pacific	Townsville Aeromodellers Society
04/15/23	12th Annual MMRCC IMAC Challenge	South Central	Mid Mississippi Rc Club
04/15/23	Grizzly Bear IMAC	North West	Tri City Modelers
04/22/23	2023 Mocksville Spring IMAC	Southeast	Mocksville NC
04/22/23	Echuca IMAC	Asia Pacific	Echuca Moama Model Aero Club
04/27/23	IMAC South Africa LSA SA Nationals	Europe	
04/29/23	Higgins Spring IMAC STD.	North West	Higgins Minature AA
04/29/23	2023 First Coast IMAC	Southeast	Jacksonville FL
04/29/23	MODEL AIR CLUC D'AIX EN PROVENCE	AIX EN PROVENCE	132902023 Europe
04/29/23	Remote Possibilities IMAC	Southwest	Remote Possibilities

## May 2023

Date	Event	Region	Location
05/05/23	IMAC TARRAGONA 2023	Europe	
05/06/23	NC 2023 JUDGING SEMINAR	North Central	AMA HQ,Muncie IN
05/06/23	SUD VIENNE AERO-MODELISME	Europe	
05/06/23	Pegasus FMAC IMAC Classic	Northeast	Pegasus Radio Control Club
05/06/23	IMAC Norway FYRESDAL 1	Europe	
05/06/23	Northern Rivers IMAC	Asia Pacific	Lismore Model Flying Club
05/13/23	EPRC SC-SW Smackdown	South Central	El Paso Radio Controllers
05/13/23	IMAC Sweden Älmhult IMAC	Europe	
05/18/23	GIRONDE SCALE MODEL AEROBATIC CUP	IMAC FRANCE	COMPÉTITION INTERNATIONALE
05/18/23	AERODROME de VENDAYS-MONTALIVET	Europe	
05/20/23	2023 Bayou Bash IMAC Competition	South Central	Red Stick Radio Control Flying Club
05/20/23	Idaho Wrecking Crew Challenge STD.	North West	Boise Area Rk Society
05/20/23	1st IMAC German Cup • (Bavaria)	Europe	
05/26/23	IMAC Odra EuroCup	Europe	

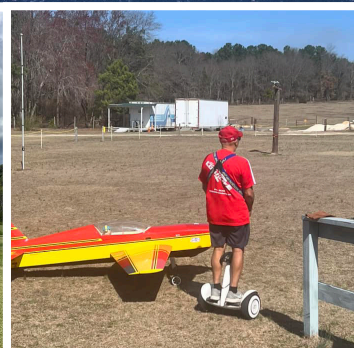














# Why Join IMAC?

The **International Miniature Aerobatic Club (IMAC)** is an organization dedicated to sport of radio-controlled Scale Aerobatic competition. IMAC operates under the auspices of the USA's Academy of Model Aeronautics (AMA) with a designation as the Special Interest Group (SIG) for R/C Scale Aerobatics. While its origin is American, the scope of IMAC operations now extends to over 15 countries throughout the world and continues to grow daily.

IMAC members are people just like yourself that love to fly scale aerobatic planes. Like any worthwhile endeavor it takes focus, energy and passion to succeed in this sport. As a pilot, you spend hours learning sequences, tuning your plane, or learning how to do the "perfect" spin entry. You pack up and head out to a contest ready to compete head-to-head with your fellow pilots. It's great so far but think about it... what is going on behind the scenes?

- Who organizes this stuff?
- Who sets the standards so that all events operate on the same level playing field?
- Who helps write and maintain the rules that we all fly by?
- Who develops the judging schools and training programs?
- Who actually writes, refines, and publishes the known sequences you so diligently practice?
- Who provides all events with pre-tested unknown sequences for THAT competition?

**It's IMAC – International Miniature Aerobatic CLUB.**

Yes, a CLUB... people like yourself all contributing to the sport with their time, resources, and passion. If you are serious about flying scale aerobatics, IMAC membership is your way of giving back to the sport.

Yes... you get benefits like discounts off entry fees at every event and the ability to compete with other pilots in your class across your IMAC region for annual bragging rights. You get access to the full IMAC website including contest calendars, buy/sell classifieds at no charge, and a full forum for sharing information with your fellow pilots



Without an international organization like IMAC, the sport of scale aerobatics as we know it may disappear! All the activities of the organization are focused on making the sport better whether through national judging schools, holding monthly phone conferences, working with the website, working with vendors that contribute to IMAC and these activities cost money. As a not-for-profit organization, IMAC depends on its members. Regardless of if you are in the US/Canada or somewhere in the rest of the world, the sport needs you to be part of the CLUB

**Join with the rest of us and support scale aerobatics!**

If you fly even a few events throughout the year, you get your money back through event entry fee discounts but more importantly - you support the sport. It doesn't get any better than that!

[www.mini-iac.org](http://www.mini-iac.org)

