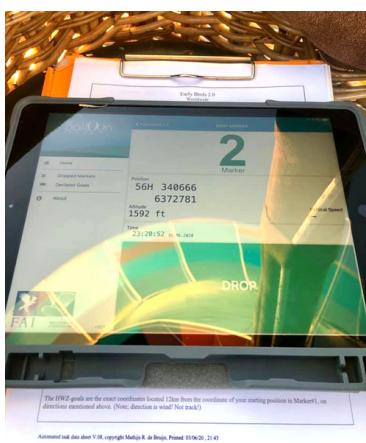


## CIA NEWSLETTER 2020 AUTUMN



Ver. 1 15/11/2020



### 2020 EDITION

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## PRESIDENT'S COLUMN

To say this has been a challenging year would be an understatement. All of our Cat 1 events have been postponed and or unfortunately cancelled. As to what will happen in 2021 we will just have to hope for the best. Although some flying is taking place to organize a major event with all the Covid - 19 protocols, and travel restriction will be challenging if possible at all.

All air sport disciplines within the FAI are having the same issues and the vast majority of their events have been postponed and or cancelled. All of the commission presidents and their Bureaus have been working hard to keep things going. The ballooning commission bureau has been meeting every month by Zoom and making sure the CIA stays on track. I am very grateful to have such a talented group of Bureau members to help us work through all the issues. Lindsay Muir has been working hard as EDS chair making sure pilots and organizers know they are supported by the CIA.

It is looking like this year's March CIA meeting will be held by zoom. The FAI is now working on a workable format that will incorporate sub-committee reports, awards, and elections. I would expect we would meet around two to four hours a day via zoom. If you are in a WG or sub-committee, be thinking about having a Zoom meeting well in advance of the March meeting so all of your work can be ready to submit.

In my last president's column I reported about all the financial difficulties the FAI would be facing due to numerous problems, many of which were brought on by questionable management issues. I understand that some of the current FAI Executive Board will not be seeking re-election. Several of the Commission Presidents have sent in requests to be listed as candidates for EB positions. In addition the Royal Aero Club of the United Kingdom has nominated David Monks to run for FAI President.

Our technical WG balloon live project is progressing very well in spite of the current pandemic.

Over 400 pilots have purchased the app for this new program. Many events cannot take place because large gatherings of people are not allowed. The balloon live project has been very helpful in that it can be used in decentralized balloon competitions. The Bureau approved releasing the CIA approved funding to purchase 50 of these devices. The funding for this project was approved by the 2019 plenary and included the development of the app.

As your President I wish each of you a safe holiday season and a better 2021. Let's all hope this pandemic will get under control and a vaccine comes available in the very near future. So let us all hang together, we will get through this.

Mark Sullivan

President

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## **1 BUREAU DECISIONS BASED ON PLENARY AGENDA 2020**

Due to the COVID-19 travel restrictions we did not have a physical plenary meeting for the first time in recent times. The bureau had requested input from the commissions on matters that needed to be addressed.

All decisions have been made on behalf of the delegates and will need to be accepted by the plenary in 2021.

Please find these decisions in the attachment or on the website.

## **2 OTHER BUREAU DECISIONS 2020**

In contrast to other years the COVID situation brought a lot of unexpected questions to the CIA table. The bureau has worked closely with EDS and the organizers to come to solutions that are best for everyone regarding decisions made for events.

All decisions have been made on behalf of the delegates and will need to be accepted by the plenary in 2021.

Please find these decisions in the attachment or on the website.

## **3 CIA PLENARY MEETING 17-20 MARCH 2021 – LAUSANNE**

### **3.1 ORGANIZATIONAL DETAILS**

With all the COVID regulations in place throughout the world it is hard to make a decision for an event like the plenary half a year in advance.

The bureau has been in close communication with the FAI about possibilities of having an online plenary event instead of a physical plenary in March. And the FAI has made it clear that they will provide support for either decision.

The bureau would like to ask you to save the dates:

### **17-20 March 2021**

For either an online or a physical plenary.

If we decide to do an online plenary, we are considering to do the working groups in the weeks preceding 17-20 March.

The choice for either one will be made at the end of December and will be communicated to you no later than January 11th.

## **4 DON PICCARD IN MEMORY**

### **Passing of 2002 CIA Hall of Fame inductee Donald L. Piccard (1926- 2020)**

Ballooning Pioneer Donald L. Piccard passed away on 13 September 2020. Don was inducted into the FAI Ballooning Commission Hall of Fame in 2002. Our sympathy to his wife, Wilma Piccard and his extended family.

Don Piccard's list of firsts is impressive - and almost endless. Piccard made the first post-World War II free flight in 1947, with a captured Japanese Fu-Gos; a small, hydrogen-filled paper balloon. In 1948, he organized the first balloon club in the United States; the Balloon Club of America. In 1957 he flew in the first plastic gas balloon, the Pleiades. The Pleiades, his design (based on his father's idea), is also a first as it consists of not one envelope, but a cluster of seven; just like the famed Seven Sisters of Greek mythology.

What else? Piccard did some of the first work in using laminated Mylar for superpressure balloon envelopes. In the 1960s, he was instrumental in getting hot-air ballooning recognized as a serious sport when he organized the first balloon races. And in 1963, along with Ed Yost, Don Piccard was the first to fly the English Channel in a hot-air balloon. The first hot-air balloons sold in Europe and South Africa were built by Piccard's company and a Piccard-manufactured balloon, Red Dragon, was one of the first three that launched hot-air ballooning as a sport in England. Taken as a whole, Don Piccard's accomplishments are awe-inspiring. Not bad for a guy who flunked calculus (or Calc-useless as it is also known) twice and, like Ed Yost and Tracy Barnes, never graduated from college!

Please read his full 50 year of Ballooning Memories stories here :

<https://www.fai.org/sites/default/files/documents/cia-hof-piccard-don.pdf>

## **5 CAMPINAR FOR JUNIOR BALLOONISTS**

By Katie Griggs, Chairman, Junior Balloonist Camps, Balloon Federation of America

This was my first year as Chairman of the Balloon Federation of America (BFA) Junior Balloonist Camps. The Junior Balloonist Program is open to kids aged 13 to 17. Through education, summer camps, training, and mentorship, we provide young people with the opportunity to discover and grow in the sport of ballooning. Our volunteers' mentor them, helping them to achieve their goals.

### **TWO CAMPS INITIALLY PLANNED**

The BFA Youth Program operates Youth Summer Camps. There were two camps to be held in 2020. The first camp was to be in Gaffney, SC. The second camp was in Albuquerque, NM. Little did anyone know what a year it would be.

We put together a committee of past camp directors and staff. Our first meeting was in Albuquerque on October 8, 2019 during the Albuquerque International Balloon Fiesta. We had a great meeting, made lots of plans, and I left feeling good about our direction for the camps.

### **CHALLENGED BY COVID-19**

The committee continued to make plans for camps via phone conference meetings, even after the pandemic hit. With no idea of how this virus would affect us, we remained hopeful that we would still be able to hold the camps. We set a date for a final decision on whether to cancel camps or not.

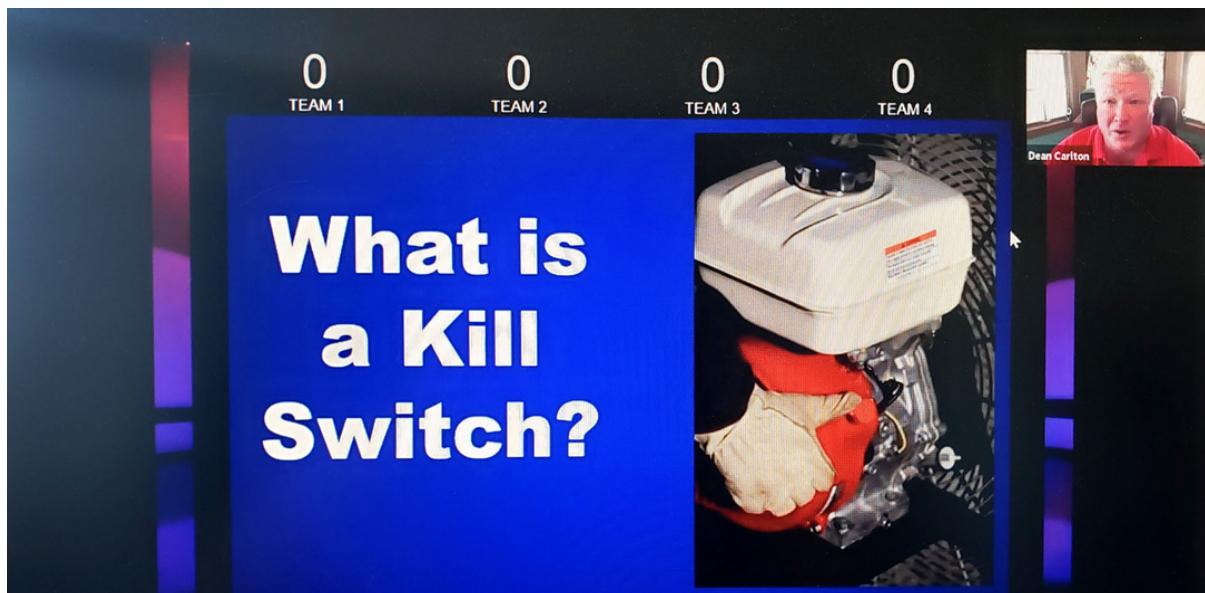
Events were being canceled around the world; it was a stressful time. Finally, in the second week of April, we came up with the idea of a virtual camp. The next step was to sell it to the committee, which had been working so hard on the physical camps. Even though it was before the deadline we had set for decision making, I felt we could not, in good faith, ask parents to send their children to camps when the whole world was reeling from the Covid Pandemic.

## VIRTUAL CAMP

Lucky for me the directors were willing to take on the challenge of creating a whole new venue for the camps. Although disappointed, everyone worked together to put on a new type of camp: the Campinar.

With only three months to plan, and no previous experience in this type of event, we put together a format for a virtual camp.

I asked the directors to figure out how we should run a virtual camp, and within a few weeks they came back with a plan of having four days, with three one-hour sessions, followed by a Q&A session each day. They took the list of speakers they had for their physical camps and started working on filling the 12 sessions.



We decided to use Zoom as our platform. Dean Carlton, BFA Website Manager, and Jill Jacobsen, BFA Office Manager, helped work out the details for the back end, as Zoom was a new way of doing things for most of us. The children who would be attending were all used to Zoom, as they had been attending schools this way for months already. We opened the registration and ended up with 88 people enrolled for Campinar. Attendees ranged from age eight to 69. We had ballooning novices and student pilots, as well as experienced pilots tuning in.

Read the whole story here on the FAI website <https://www.fai.org/news/campinar-junior-balloonists>

## **6 FAI/CIA CATEGORY ONE COMPETITIONS 2020**

### **6.1.1 4<sup>th</sup> Women World Championship 2020, Poland**

Cancelled

### **6.1.2 24<sup>th</sup> World Championship 2020, Slovenia**

Postponed

Due to the postponement of the event the bureau decided to return the Performance Bond to the organizers on the condition that all entry fees have been returned to the pilots.

Pilots who have not yet had their entry fee returned should contact with the organizer and the chairman of the CIA EDS sub-committee ([lindsay@plasmadoc.co.uk](mailto:lindsay@plasmadoc.co.uk)). The organizer has created an online link where you can fill out a form in order to start the refund process. You can try to click on the link here or copy paste the address into your browser.

<https://www.hotairballoons2020.com/en/request-for-refund-of-registration-fee/>

### **6.1.3 64<sup>th</sup> Gordon Bennett 2020, Poland**

Postponed

### **6.1.4 CE Cup, Pre-European Championship, Hungary**

The FAI Sanction was withdrawn; however, the event went ahead and was accepted as Pre-European test event.

## **7 FAI/CIA OTHER SANCTIONED EVENTS (CAT 2) 2020**

### **7.1.1 21st Coupe d'Europe de Montgolfieries – Jonzac – France**

## **8 FAI / CIA CATEGORY ONE COMPETITION 2021**

### **8.1.1 64<sup>th</sup> Gordon Bennett 2021, Poland**

COVID-19 resulted in the postponement of the 2020 Gordon Bennett Gas Balloon Race scheduled to launch from Wroclaw, Poland. The event organisers have been working hard to re-organise the event to take place in 2021.

Pilots and crews had to rearrange their plans and work to find renewed enthusiasm to plan for 2021 Poland. The event is scheduled to take place from 19<sup>th</sup> August – 23<sup>rd</sup> August with the closing ceremony taking place on either 27<sup>th</sup> or 28<sup>th</sup> August. The Jury has been confirmed as Thomas Fink (GER) (President), Hiromi Furukawa (Jpn) and Robertas Komza (LTU). The event director is Benoit Pelard (FRA).

The Event's General Manager, Arkadiusz Iwański, and the organising committee are now working hard with the site personnel, the CIA and FAI to create an excellent race next year in Wroclaw.

Mateusz Rekas and Jacek Bogandanski, popular winners of the 2018 FAI Gordon Bennett Long Distance Gas Balloon Race, remain upbeat that the 64<sup>th</sup> Gordon Bennett will go ahead in 2021. With a history of three cancellations of this race in Poland, 1939 World War 11, 1983 Iron Curtain, 2020 COVID-19, surely the fourth time will be lucky. Wroclaw, a university city, is often claimed to be among the most liveable places in Europe. Situated on the Order River with more than 100 bridges, Wroclaw offers a huge variety of activities for its visitors and locals. Historical buildings, flower markets, illuminate street gas lamp at night and much more to enjoy.

Make Wroclaw Poland your destination for 2021.

#### **8.1.2 22<sup>nd</sup> European Championship 2021, Hungary**

This is due to take place from 13<sup>th</sup> – 18<sup>th</sup> September 2021 in Szeged at the airport. A number of balloon events have been held in Szeged over the years including the Szeged Balloon Cup, the Central European Cup and the Hungarian National Championships. The 2020 Pre-European Championship was held in conjunction with an airshow.

Event Director – David Bareford

There are many old buildings and attractions to see in Szeged and along with a variety of cafes, bars, shops and markets so should it rain during the event there is a lot to keep you occupied.

#### **8.1.3 5<sup>th</sup> Junior World Championship 2021, Poland**

The Junior World Championship will be held in Leszno (host of many International events over the years). It will take place between 9<sup>th</sup> – 14<sup>th</sup> August 2021.

The event director is Eugenijus Komas. Event Jury members have been confirmed as President - Garry Lockyer (CAN), Lindsay Muir (GBR) and Tomasz Kuchcinski (POL).

#### **8.1.4 5<sup>th</sup> Women World Championship 2021, Australia**

COVID 19 travel restrictions into Australia are unlikely to be lifted until June 2021 and hence the decision was made to postpone the event. As the world championships are only staged every other year this means that the next Women's event will not take place until 2023.

### **9 FAI / CIA CATEGORY ONE COMPETITION 2022**

#### **9.1.1 24<sup>th</sup> World Championship 2022, Slovenia**

We are still awaiting dates for this event.

#### **9.1.2 65<sup>th</sup> Gordon Bennett 2022, Switzerland**

Due to COVID 19, the Swiss organisers agreed with Poland to postpone this event for 1 year. No further details are available at this time.

### **10 FAI/CIA EVENT CALENDAR**

#### **CIA Category 1 Championships Calendar and Events Open for Applications**

Section 1 of the FAI Sporting Code states that "World Championships in the same sub-class, age or gender category shall not be held closer to each other than approximately two years" and "Continental Regional Championships in the same sub-class, age or gender category shall not be held more than once a year on the same continent".

The FAI World Air Games is the premier, international, multi-discipline air sports event conducted under FAI rules but is included in the table for completeness.

This event calendar does not show CIA Sporting Events. The objectives of Sporting Events include: encouraging participation in international events in which pilots of all abilities can take part and facilitating fair "entry level" competition using simplified rules that apply equally to all CIA Sporting Events and participants.

EVENT	CATEGORY	2021	2022	2023	2024	2025
WORLD AIR GAMES – NONE SCHEDULED						
HOT AIR BALLOONS (AX)						
General	World	1	Slovenia		OPEN	
	Continental	Hungary Sanctioned		OPEN		OPEN
Women's	World			Australia		OPEN
	Continental		OPEN		OPEN	
Junior	World	Poland		Poland Intention to bid		OPEN
	Continental		OPEN		OPEN	
GAS BALLOONS (AA)						
General	World	No Event	No Event			
	Continental	No Event	No Event			
Women's	World	No Event	No Event			
	Continental	No Event	No Event			
Junior	World	No Event	No Event			
	Continental	No Event	No Event			
GORDON BENNETT RACE						
		Poland Winner 2018	Switzerland Winner 2019			
HOT AIR AIRSHIPS (BX)						
General	World	No Event	No Event			
	Continental	No Event	No Event			
Women's	World	No Event	No Event			
	Continental	No Event	No Event			
Junior	World	No Event	No Event			
	Continental	No Event	No Event			

<sup>1</sup> Grey background indicates NOT open for bidding in that year.

There has been no gas balloon World or Continental championships for several years and so either event is open for application from 2023. The same applies to airship championships.

I made a comment in the last CIA Newsletter that “*we have reached what might be called a crisis situation with respect to future FAI Category 1 (World and Continental Championship) events*”. Unfortunately, this has only got worse as a result of COVID 19.

The Event Development Service (EDS) invites and encourages all NAC's and Delegates to review the Championship Calendar and consider what competitions they might consider hosting in their country. If your country has never run a major International event you may consider that a smaller event such as a CIA Sporting Event or a Junior or Women's championship would be a good entry level. If you would like further advice on what is required to host an event or on completing the sanction application form, please e-mail Lindsay Muir (CIA Event Development Subcommittee Chairman) for assistance – [lindsay@plasmadoc.co.uk](mailto:lindsay@plasmadoc.co.uk)

Further information can be found in Section 1 of the Sporting Code particularly Section 5 and Annex - <https://www.fai.org/cia-documents>

## 11 CIA JUROR'S LIST 2020

The 2020 list of approved Jurors below is to be used when making nominations for Juries for 2021 Sanctioned Events. You can find the list on the documents section of the FAI/CIA website.

## 12 BALLOON COMPETITION RESULTS WEBSITE

Erwin Pellegrrom started a website to make it easy for people to find (older) competition results.

<http://www.ballooncompetitionresults.com>

He says: “I sometimes found it hard to find (older) results on the internet so I thought “why not make a place where all results of the various competitions can be found?”.”

It's not a fancy website, just a place where you can find results. Results as far back as the 70' s can be found, pilots can look up results by their name and results for competition in certain countries can be found as well.

Go and find your name in the database and see how you have done over the years. Erwin Pellegrrom has done a really good job putting together this website with special thanks for the help of Ivars Grinbergs and Hendrik Jan Gommer who helped to minimize the faults in the database.

And if you have results and want them to be on the list and in the database, let Erwin know at [results@ballooncompetitionresults.com](mailto:results@ballooncompetitionresults.com).

The screenshot shows the homepage of the Balloon Competition Results website. At the top, there is a banner with a colorful collage of balloons and the text "Balloon Competition Results" and "Collected by Erwin Pellegrrom". Below the banner, the word "Results" is prominently displayed in blue. A search bar is located below the title, with dropdown menus for "Pilot" (set to "Any pilot"), "Country" (set to "Any country"), "Competition" (set to "All competitions"), and "Year" (set to "Any year"). A "Search" button is positioned next to the search bar. At the bottom of the page, a blue banner displays the following statistics: "In the database there are 671 competitions, 3375 pilots from 59 countries with a total of 18670 results!"

## 13 A CANADIAN WORLD RECORD ATTEMPT

Article written by Jonathan Perron-Clow (Canada)

Standing around, gazing out at a world he could not wait to explore, Canadian hot air balloon pilot Sébastien Poupart was admittedly a bit bored for several hours. Little did he and co-pilot Johann-François Ouellette-Frèvre know that a few hours of that would be nothing compared to what many would face later in the spring as COVID-19 lockdowns confined much of the world to our homes. For them, staring at the same scenery during their record-setting flight this past January are better memories than most people will have from this year.



For 9 hours and 57 minutes, on January 30, 2020, Sébastien Poupart and Johann-François Ouellette-Frèvre floated over rural Québec on their way to shattering the Canadian record for flight duration in the AX7 Balloon Category. It would not have been boring, but considering they eventually landed less than 10 kilometres from where they launched, the scenery did not change much!

"It wasn't the most palpitating flight," admitted the understated Poupart who, along with his co-pilot, are part of a resurgence of younger pilots in Québec. This new group is seeking to repeat and expand upon the adventures of the previous generation of balloon pilots.

Few of them would qualify for the FAI Junior category that is capped at 29 years old, but in a world of greying pilots their renewed energy and enthusiasm is catching on: there is a waiting list of students hoping to be trained and licensed. Some are sons and daughters of former pilots, while others have been brought into the orbit of the International Balloon Festival of Saint-Jean-sur-Richelieu, Canada's largest hot air balloon festival that took leadership to address the situation by starting a successful flight training school a few years ago. Many graduates now fly their own balloons during the annual event and the momentum it has generated has seen other private pilots and balloon companies support their crew members to get their own licenses which will keep the skies full of pretty balloons for years to come.

Read the whole story of this world record breaking adventure on the FAI website.  
<https://www.fai.org/news/ten-hours-ten-kilometers-and-canadian-record>



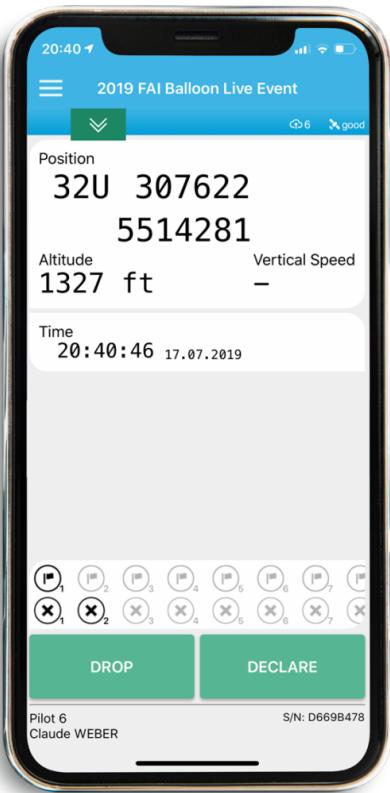
## 14 BALLOON LIVE



The Balloon Live project started in 2018 as a follow-up project to replace the FAI Balloon Competition Loggers introduced in 2009 by the New Technology Subcommittee. The new project has a larger scope. It replaces the existing loggers by a mobile app and an additional sensor box to guarantee a constant and equal quality of the position (GPS) and altitude (GPS and barometric) measurements. Additionally, the live transmission of the data becomes reality and opens a lot of new possibilities for live coverage and tracking of the competition. Watchmefly.net is an essential part of the project as platform for data recording, visualisation and scoring.

### 14.1 BALLOON LIVE APP

In August 2019, the New Technology Subcommittee and the Balloon Live Team proudly launched the mobile app on Android and iOS.



The app is used in hot air balloon competition and has the following features:

- competition
  - ✓ 2 app modes: training and
  - ✓ Flight recording with
  - ✓ up to 8 different electronic
  - ✓ up to 8 goal declaration
  - ✓ recording in IGC-file format
  - ✓ export as IGC-file
  - ✓ Automatic flight resume on
- Start/Stop functionality
  - ✓ Background mode when
  - ✓ Connection to external
- marker drops
  - ✓ app restart
  - ✓ flight is started
- slots
  - ✓ Balloon Live sensor for best quality GPS and barometric altitude

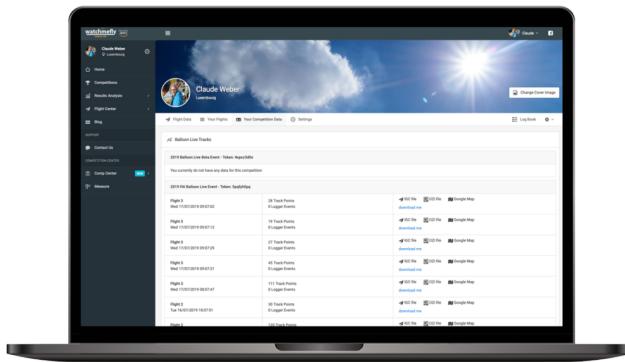
In competition mode:

- ✓ Synchronisation of competition settings and flight data from watchmefly.net
- ✓ Live tracks to watchmefly.net for competition officials and retrieve crew



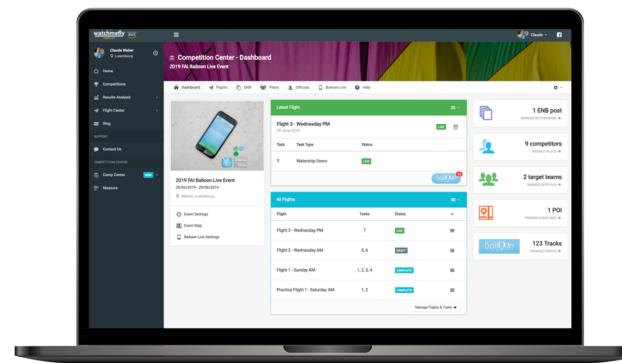
## 14.2 WATCHMEEFLY.NET

Along the release of the app, watchmefly.net was updated with the new **WatchMeFly Comp Center** that allows event organisers and competition officials to manage all the flights, tasks and Balloon Live logger data in real time.



Login as a pilot to the **Pilot dashboard** and have an overview of your past and upcoming competitions. Find your personal token/code to register your *Balloon Liveapp* to a competition and download all your recorded tracks directly on your personal profile page.

Competition officials can manage competition details, pilot list, flight and task settings, official noticeboard, measuring reports and download all recorded tracks immediately after landing.



## 14.3 BALLOON LIVE SENSOR

The Balloon Live Sensor (BLS) was developed in 2019 and 2020. The sensor closes the gap of the Balloon Live App running on many different phones and the need for precise GPS and barometric measurements. This is done using an external sensor that connects to the app. The design is based on a previous Volirium (Flytec Balloon) product named Sensbox, but is now upgraded to the latest state of technology and extended with functions needed for Balloon Live. The whole design (electronics, firmware and testing infrastructure) was done by Marc André as volunteer work. The production is done by Volirium (Flytec Balloon). This is an exciting next step for Balloon Live!

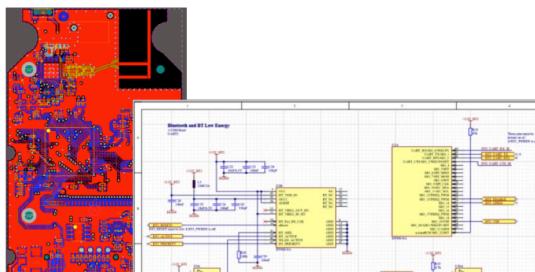
The sensor uses Bluetooth low energy to connect to the Balloon Live App. It uses a custom protocol that also includes signing of the data. Each device has its own signature key. On request of the pilots we have added an additional classic Bluetooth connection so that multiple devices such as a laptops can connect and get the same data as the Balloon Live App. USB will be available as an alternative interface.



The sensor is powered by an internal LiPo battery which has approximately 20h runtime. The sensor comes with Flytec's quality altitude and variometer sensing (@8Hz) and a state of the art GPS receiver (@5Hz) that supports all common GNSS standards. The device also stores all tracks on a SD card for backup. The small display shows the status and minimal information.

#### 14.4 MILESTONES OF THE BALLOON LIVE SENSOR DEVELOPMENT

**Electronics redesign and PCB Layout:**  
Q4/2019



**Prototype build: Q1/2020**



**Series0 production Q3/2020**



**Prototype Testing Q2-Q3/2020**



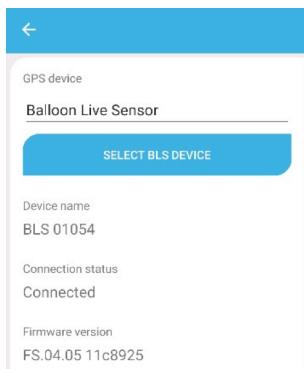
## Production test infrastructure Q2-Q3/2020



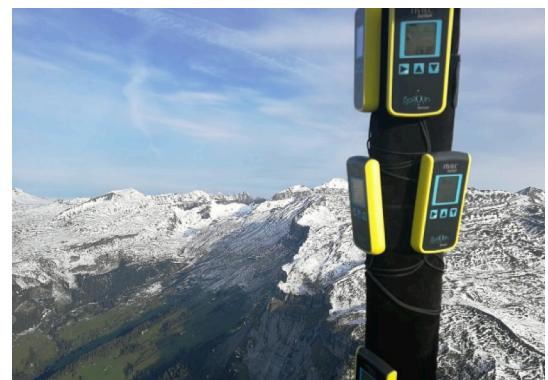
Firmware development (ongoing) Q2-Q4/2020



## App integration Q3-Q4/2020 (ongoing)



## In-flight testing Q4/2020 (ongoing)



All hardware tests were successful and the device is now ready for full series production. The firmware will be further improved over the next months. Unfortunately the planned test-event was cancelled due to COVID-19. We will work on the system and test it during winter so that it is ready in spring 2021. We plan to run a test event in spring 2021 to confirm that the system is ready for competition use.

The Balloon Live Sensors will have to be purchased by the pilots (or the NACs). We have negotiated a fair deal with Flytec Balloon. In order to reduce cash and inventory, the primary sale of the devices will happen through sale events. The first event is planned in November 2020. A few more events will happen prior to the next big events (Europeans / Worlds). Any purchase outside the events will be significantly more expensive and cannot be guaranteed (inventory).

## 15 BALLOON LIVE SENSOR SPECIAL SALE

The Balloon Live Team of the FAI Ballooning Commission is excited to announce that the Balloon Live Sensor can now be ordered.

Along the Balloon Live app and [Watchmefly.net](http://Watchmefly.net), the sensor is the last element to make the project Balloon Live complete and replace the actual FAI loggers. After more than 10 years of successful use in many CAT1, Continental and World championships, it is now time to take the step into the future of balloon competition, whether it be online contests or on-site competitions (once the conditions allow us to host them again).

The new devices have to be bought by pilots (or NACs) and pilots have to bring their own device to competitions. FAI/CIA will not purchase and manage a pool of devices anymore as the logistics of shipping the devices between competitions, countries and continents became too complex and will even increase with more countries outside Europe committing to use the FAI/CIA developed infrastructure.

To be able to offer the best price to pilots, we start selling the devices in a Special Sale on [balloonlive.org](https://balloonlive.org).

Be fast and order yours before November 20th, 2020 to make sure you get a devices manufactured and delivered before the next flying season starts. The next possibility to buy one will not be before end of 2021. So make sure you have one to participate in the 2021 events.

Check out the details about the device here: <https://balloonlive.org/about-balloon-live/#bls>

and order yours here: <https://balloonlive.org/sensor-sale/>



## 16 EARLY BIRDS 2.0 WORLDWIDE BALLOON COMPETITION

Story by Jonas Maes, Event Director, Early Birds 2.0 (Belgium)

### THE IDEA

End of May 2020. We are in the middle of the Covid-19 crisis and almost all national and international competitions have been, or will be, canceled. This is also the case with the Belgian Balloon Trophy, a well-known competition with (traditionally) a strong international field of participants. As for previous editions, I was asked to lead this competition and to provide the participants with some fun and exciting task-setting. Unfortunately, Ballooning has been banned in Belgium for some time, but has recently been re-allowed, albeit under strict conditions.

During a sunny afternoon I received a phone call from competition pilot Tom Deleersnyder, asking if we could put something together to do competitive ballooning. Pilot Philippe De Cock also contacted me that weekend with the same question. I asked them for a few days to look at this and promised to get back to them soon. But how...?

Balloon races are normally organised at a fixed location, with a predetermined airspace, where all pilots must fly the assigned tasks. There is a general briefing at the start of the event, and there are task briefings for each flight, where the task sheet (the list of assignments to be completed for each flight) is gone through and the pilots can ask questions if needed. The presence of all participants is mandatory. More than half the tasks are also flown and scored by means of a physical marker drop, on a physical target somewhere in a field. All the above points are very difficult, considering distance rules, red zones, personal bubbles, etc.

Now that we are used to flying competitions with loggers, and where the Watchmefly.net platform has become a useful and current medium, it did not seem impossible to me to come up with something attractive, especially as the Balloon Live App has recently been introduced. This is an app that can be downloaded on a mobile device and is identical to the logger that we are used to flying with. The only difference is that it currently still works on the GPS function of the device in question, unless you connect it to an external GPS (more about this later).

As on a competition map, each point can be determined by a coordinate. In other words, any point in the world can be determined by a coordinate. Since we mainly work with coordinates, it does not seem to be a problem here.



Apart from coordinates, the results of various tasks are achieved by flying a difference in degrees. If you can determine coordinates, you can also determine degrees from a certain location. The tools to literally organise everything ‘from a distance’ are therefore available. The event started to take shape in my mind. I explained the situation to Tom and Philippe and they also started to believe in this concept.

As such a competition has never been organised before, and no specific rules have been described, we mainly wanted to promote the fun aspect. The intention must be that it should be fun and accessible, without much fuss. Rookie pilots should feel comfortable joining in the tasks and at the same time it should be challenging for more-experienced competition pilots. So basically, fun should come first for everyone, especially in these tough times.

## THE CONCEPT

How we proceeded:

- We provided seven slots of two weeks each in which a published task sheet can be flown.
- We published a task sheet on the last evening of each slot.
- Each pilot must have the Balloon Live App on a mobile device, and have a login at Watchmefly.net
- To give rookies opportunities, as well as pilots who cannot fly every slot, we decided to count only the five best slots of the seven possibilities for the ranking.
- We score in the traditional way, with only the pilots who have flown a certain slot.
- After the last slot you automatically get a winner adding-up all the results.

Early Birds 2.0 Worldwide					
<b>FLIGHTDATA SLOT #3</b>					
a) Date	04/07/2020 – 16/07/2020	e) Min dist. ILP to goals	3km		
b) Sunrise / Sunset	See official SR & SS	f) Launch period	Pilot's choice		
c) PZs in force	N/A Common sense required	g) Briefing times	See watchmefly.net		
d) Launch area	Pilot's choice / Marker #1	h) Solo flight	No		
		i) Search period	4Hrs.		
<b>TASK Nr. 1, MINIMUM DISTANCE DOUBLE DROP</b>					
Logger: Goal #1 & #2 / Marker #2 & #3					
a) Marker colour	-				
b) Task/Marker order	In order				
c) Marker drop	-				
e) Scoring p/a/as	-				
f) Task data R15.15.2	a. Description scoring areas	Scoring areas A & B			
<p><b>Scoring area A:</b> 2km radius of coordinates in Goal #1. The coordinates of goal #1 must be minimum 3km away from your launch point in marker #1.</p> <p><b>Scoring area B:</b> 500m radius of coordinates in Goal #2. The coordinates must be minimum 3km away from your coordinates in Goal #1.</p> <p>Declaration Goals #1 &amp; #2 must be made into the logger before take-off.</p> <p>Shortest distance between Marker #2 and Marker #3 is best.</p> <p>Loggermarks outside scoring areas = No result. Disrespecting of the distances set above to goal-declarations = No result.</p>					
<b>TASK Nr. 2, FLY ON</b>					
Logger: Goal #3 / Marker #4					
a) Marker colour	-				
b) Task/Marker order	In order				
c) Marker drop	-				
e) Scoring p/a/as	-				
f) Task data R15.5.2	a. Method of declaration	Into logger			
	b. Number permitted Goals	1			
	c. Goals available for declarations	Any coordinate			
	d. Min/Max dist. previous mark to goal	2 / 4 km			
<p>Your declaration-point must be minimum 2km away from your FON-goal in Task #2.</p> <p>You will be scored in 2D.</p>					
<b>TASK Nr. 3, LAND RUN</b>					
Logger: Goal # / Marker #5 & #6					
a) Marker colour	Marker #4 (FON in task 2), #5 & #6				
b) Task/Marker order	In order				
c) Marker drop	-				
e) Scoring p/a/as	-				
f) Task data R15.12.2	a. Point A	Marker #4			
	b. Point B	Marker #5 – Min 2km / Max 5km from A			
	c. Point C	Marker #6 – Min 2km / Max 5km from B			
	d. Description scoring area(s)	Anywhere in the world			
<p>The result is the area of the triangle A,B,C. Greatest area is best.</p>					
<b>TASK Nr. 4, HESITATION WALTZ</b>					
Logger: Goal # / Marker #7					
a) Marker colour	-				
b) Task/Marker order	In order				
c) Marker drop	-				
e) Scoring p/a/as	-				
f) Task data R15.3.2	a.	See note!			
<p>Note: The HWZ-goals are all crossings of Northing and Easting UTM-gridlines with coordinates ending on '00'. (e.g. 5500/8500) outside a 2km radius of your marker #6 (Point C in LRN-task). No Maximum distance of radius is set.</p>					
<p>Automated task data sheet V.08, copyright Mathijs R. de Brujin, Printed: 28/06/20 , 12:22</p>					

Almost immediately after the announcement of the competition on facebook for Belgium pilots, we get the question from our northern neighbours, with whom we organise several competitions every year, whether they can also register for this initiative. With the ethos of "the more souls, the more joy" we accept their request and Dutch people also start to register for the competition.

As with many things, Ballooning is a small world. The news about our initiative spreads like wildfire and soon we receive requests from pilots all over Europe, wishing to participate. It's quite surprising, but on the other hand, we are all starting to enjoy it very much. We decide to make an English version of our introduction and post it on both mediums that we use to communicate with our participants.

What happens next is almost unreal. The registrations come, and come, and keep coming. We receive emails from all over the world. Almost all ballooning countries from the EU are represented, and also pilots from Australia, Canada, Russia, the USA and Japan indicate that they wish to participate in this exceptional competition.

Read the full story about this concept that was picked up on world wide by pilots here.  
<https://www.fai.org/news/early-birds-20-worldwide-balloon-competition>

## **17. CIA SCHOLARSHIPS FOR BALLOON YOUTH CAMPS DISCONTINUED**

The CIA Bureau has advised that the CIA scholarships for Balloon Youth Camps have been discontinued, effective immediately.

This is due to a combination of circumstances, including the ripple effect of COVID-19 pandemic. Budgets have been severely impacted by the cancellation of events around the globe.

Any questions, please contact the CIA PMR Chair, email: [CIA-media@fai.org](mailto:CIA-media@fai.org).

Submitted by Debbie Spaeth, CIA PMR Chair on 12 Oct 2020.

## 18. HALL OF FAME NOMINATION FORM



### HALL OF FAME NOMINATION FORM

#### Nominated person

First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_

Nationality: \_\_\_\_\_

Date of Birth: (Year/Month/Day): \_\_\_\_\_

Date of Death (Year/Month/Day): \_\_\_\_\_

#### Short Biography (10 lines):

#### Achievements, honours and awards:

#### Photographs attached:

Please send this completed form to the CIA Secretary. A full CV may be requested later.

**Nominating person:** \_\_\_\_\_

Name: \_\_\_\_\_ NAC: \_\_\_\_\_ Date: \_\_\_/\_\_\_/\_\_\_

## **19. FAI AWARDS AND NOMINATIONS PROCEDURES 2021**

by Hans Åkerstedt

The art of balloon and airship flying depend a lot on the enthusiasm, work and devotion to our sport by many individuals and groups of persons. They spend a lot of time to spread and develop the sport through education, instruction, event organization or technical development. What can we do to recognize their work and to reward them?

One way is to nominate them for an award. The CIA and FAI has a large number of those and nominations should be encouraged. For most of the awards, nominations shall be made by NAC's to FAI office, so the trick is to make the NAC's aware of possible candidates.

All balloon federations and balloon clubs – make your proposals to your national FAI members.

Below is a summary of CIA/FAI awards and a short description of the nomination procedure.

### **19.1 CIA SPORTING BADGES, SPORTING CODE, SECTION 1, CHAPTER 8.**

These are available in silver, gold and gold with one, two or three diamonds. Each require recognized performance in distance, duration, altitude and precision. Detailed requirements are found in the Sporting Code. Application form is available on the CIA web site, documents section. Send application to FAI office.

### **19.2 THE MONTGOLFIER DIPLOMA. FAI BY-LAWS, CHAPTER 7.2**

Awarded for best performance during the previous Montgolfier year in gas, hot air or Rozière balloons and for a major contribution to the development of ballooning in general. Nominations by NAC's to FAI office latest 60 days before the CIA plenary meeting. Note: The Montgolfier year starts on November 21st and ends on November 20th the following year.

### **19.3 THE SANTOS-DUMONT GOLD AIRSHIP MEDAL. FAI BY-LAWS, CHAPTER 7.3**

Equivalent for airship pilots of the Montgolfier diploma awarded for best sporting performance during the previous Montgolfier year in airships or for a major contribution to the development of airship flying in general. Nominations by NAC's to FAI office latest 60 days before the CIA plenary meeting.

### **19.4 THE FAI AIR SPORT MEDAL. FAI STATUTES 10.7**

For outstanding services in air sport activities, training or education. Any number may be awarded to individuals or groups. Order forms are available at the FAI web site, documents page. Invoice for CHF 100 will be sent from FAI office.

The following are FAI General awards available for ballooning. Applications to FAI office before 31 May and shall cover performances until 31 December the preceding year or contributions over a longer period. Citations shall not exceed 250 words. Other supporting documents may be attached. The awards will be given at the FAI General Conference to recipients present.

#### **19.5 THE FAI GOLD AIR MEDAL. FAI STATUTES 10.2**

One of the FAI's two highest awards. Given to those who have contributed greatly to the development of aeronautics by their activities, work or achievements. Since 1925, 76 Gold Medals have been awarded including 7 for ballooning and 1 for airship achievement.

#### **19.6 THE FAI SILVER MEDAL. FAI STATUTES 10.9**

For persons having occupied high office in FAI or in a national organisation and have shown exceptional leadership and influence to the benefit of the whole air sport community.

#### **19.7 THE FAI BRONZE MEDAL. FAI STATUTES 10.3**

Only the FAI Secretary General may make nomination for this award. The Medal is reserved for persons who have rendered eminent services to the FAI in administrative work, in Commissions, or in the organisation of FAI sporting events.

#### **19.8 THE DE LA VAULX MEDAL. FAI STATUTES 10.5**

This medal is given automatically to all holders of recognized absolute world records established during the previous year. Count Henry de la Vaulx was founder and past president of the FAI. He flew Gordon Bennett 1906.

#### **19.9 THE SABIHA GÖKÇEN MEDAL. FAI STATUTES 10.8**

The Medal is reserved for the woman who performs the most outstanding achievement in any air sport in the previous year. Sabiha Götzen was Turkey's first woman pilot and in 1937 became the world's first female military pilot.

#### **19.10 THE NILE GOLD MEDAL. FAI STATUTES 10.10**

This medal may be awarded to a person, group of persons or organization to reward distinguished work in the field of aviation and space education, particularly during the year preceding its award. The medal is donated annually by the Aero Club of Egypt.

#### **19.11 THE OUTSTANDING AIRMANSHIP DIPLOMA. FAI STATUTES 10.11**

It shall be awarded to a person or a group of persons for a feat of outstanding airmanship in sub-orbital flight during one of the previous two years which resulted in the saving of life of others or was carried out with that objective.

#### **19.12 THE PAUL TISSANDIER DIPLOMA. FAI STATUTES 10.12**

May be awarded to those who have served the cause of aviation in general and sporting aviation in particular, up to three diplomas per FAI Member, depending on their class of membership, may be awarded. Paul Tissandier was a balloonist and Secretary General of FAI from 1919 to 1945.

#### **19.13 THE FAI GROUP DIPLOMA OF HONOUR. FAI STATUTES 10.14**

A FAI Group Diploma of Honour may be awarded to a group (design offices, scientific bodies, aeronautical publications, etc.) that has contributed significantly to the progress of Aeronautics or Astronautics during the previous year or years.

#### **19.14 THE H.R.H. PRINCE ALVARO DE ORLEANS-BORBON GRANT.**

To Persons or institutions who have devoted themselves to create and/or promote technical developments and innovation in sport aviation. Additional consideration will be given to projects. Nominations should be received in writing by the FAI Head Office latest 30 June (using the Prince Alvaro de Orleans-Borbon Grant Nomination Form available on FAI website) ([members@fai.org](mailto:members@fai.org))

#### **19.15 THE IOC WOMEN AND SPORT TROPHIES.**

Awarded annually to promote the advancement of women in sport. They recognize outstanding achievement and contributions made to develop encourage and strengthen the participation of women and girls at all levels in the sports world. There is annually one trophy worldwide and one each for the continents.

Nomination forms will be posted to national Olympic committees.

#### **19.16 FAI RECOMMENDED MUSEUM RECOGNITION. FAI BY-LAWS 10.1**

The FAI may give recognition to deserving venues such as museum collections, special exhibitions, etc, which educate the public, particularly children and young people, in the history and practice of air sport, aeronautics (including commercial and military aviation) and astronautics.



## FAI Awards for Ballooning 2021

### Nomination Form

(one nomination per form)

**Name of the Award:**

- Montgolfier Diploma / best sporting performance in Gas Ballooning (By-Law 7.2.1.2.1)
- Montgolfier Diploma / best sporting performance in Hot Air Ballooning (By-Law 7.2.1.2.2)
- Montgolfier Diploma / best sporting performance in Roziere Ballooning (By-Law 7.2.1.2.3)
- Montgolfier Diploma / contribution to development of ballooning (By-Law 7.2.1.2.4)
- Santos-Dumont Gold Airship Medal (By-Law 7.2.2)

**Submitted by:**

NAC: \_\_\_\_\_

Name: \_\_\_\_\_

Position: \_\_\_\_\_ Function: \_\_\_\_\_

Date: \_\_/\_\_/\_\_

Signature and stamp: \_\_\_\_\_

**Nomination for:**

Name: \_\_\_\_\_

Birthdate: \_\_/\_\_/\_\_

E-mail address: \_\_\_\_\_ @ \_\_\_\_\_

Reasons for nomination (maximum 250 words, English only):

Please provide at least one high resolution picture of the nominated person, if possible taken while practicing his/her sport or beside his/her (model) aircraft.

All nominations must be received at the FAI Head Office by **15 January 2021** at the latest in electronic format (to [members@fai.org](mailto:members@fai.org)) **preferably** or by fax or post.

## 20 THE CIA BALLOONING COMMISSION 2019/2020

### Delegates of the FAI Ballooning Commission (CIA)

as of 12 november 2020

(This list can change, the most current list is available online <http://www.fai.org/page/cia-delegates>)

Country	Title	Name	Email
USA	President	Mr. Mark SULLIVAN	marksullivansr@gmail.com
France	President of Honour	Mr. André de SAINT SAUVEUR	
Germany	President of Honour	Mr. Horst HASSOLD	
UK	President of Honour	Mr. Jacques W. SOUKUP	
Luxembourg	President of Honour	Mr. Jean Claude WEBER	jwe@pt.lu
Luxembourg	1st Vice-President	Mr. Claude WEBER	claude.weber@mac.com
Germany	2nd Vice-President	Mr. Uwe SCHNEIDER	uwe.cia@dfsv.de
Switzerland	3rd Vice-President	Mr. Marc Andre	marc.andre@netline.ch
The Netherlands	Secretary	Ms. Sanne Haarhuis	sanne@sannehaarhuis.nl

Country	Title	Name
Albania	Delegate	Mr. Gridi Shima
Argentina	Delegate	Mr. Roberto Stocker
Australia	Delegate	Mr. Steve Ireland
	Alternate Delegate	Ms. Ruth E. Wilson
Austria	Delegate	Mr. Gerald Stürzlinger
	Alternate Delegate	Mr. Christoph Fraisl
Belarus	Delegate	Mr. Dmitri Bondarenkov
	Alternate Delegate	Mr. Konstantin Tsarik
Belgium	Delegate	Mr. Luc Van Geyte
	Alternate Delegate	Mr. Philippe de Cock
Brazil	Delegate	Mr. Marcos Bonimcontro
	Alternate Delegate	Mr. Aquilino Gimenez
Bulgaria	Delegate	Ms. Orlina Asparuhova
Canada	Delegate	Mr. David Gleed
China (People's Republic of)	Delegate	Mr. Wu Gongyu
	Alternate Delegate	Ms. Li Tong
Chinese Taipei	Delegate	Dr. Elsa L.C. Mai
Colombia	Delegate	Mr. Carlo Oswaldo Cortes
Croatia	Delegate	Mr. Igor Miklousic
Czech Rep.	Delegate	Mr. Michael Suchy
.	Alternate Delegate	Mr. Jan Suchy
Denmark	Delegate	Mr. Rune Paamand
	Alternate Delegate	Mr. Christoffer Mundt
Egypt	Delegate	Mr. Mohamed Hassan
	Alternate Delegate	Mr. Ahmed Farghal
Estonia	Delegate	Mr. Jaano Rassa
Finland	Delegate	Mr. Max Sevelius
	Alternate Delegate	Mr. Olli Luoma
France	Delegate	Ms. Martine Besnainou
	Alternate Delegate	Mr. Benoit Pelard
Germany	Delegate	Mr. Uwe Schneider
	Alternate Delegate	Ms. Silvia Meirl
Greece	Delegate	Mr. Vasilis Petinis
Hong Kong, China	Delegate	Mr. Nigel Black
	Alternate Delegate	Mr. Andy Chau
Hungary	Delegate	Mr. Peter Molnar
	Alternate Delegate	Mr. Garab Scabolcs
Iceland	Delegate	Mr. Agust Gudmundsson
Indonesia	Delegate	Mr. Chepy R Nasution

Ireland	Delegate	<b>Mr. Tom McCormack</b>
	Alternate Delegate	<b>Mrs. Carol O'Neill-Davis</b>
Italy	Delegate	<b>Mr. Paolo Oggioni</b>
	Alternate Delegate	<b>Mr. Marco Giomi</b>
Japan	Delegate	<b>Mr. Saburo Ichiyoshi</b>
	Alternate Delegate	<b>Mr. Hiromori Soejima</b>
Korea	Delegate	<b>Mr. Eunyoung Roh</b>
	Alternate Delegate	<b>Mr. Seoku Kang</b>
Latvia	Delegate	<b>Mr. Gints Gailis</b>
	Alternate Delegate	<b>Mr. Kaspars Stamurs</b>
Lithuania	Delegate	<b>Mr. Zydrunas Kazlauskas</b>
	Alternate Delegate	<b>Mr. Tadas Gegevicius</b>
Luxemburg	Delegate	<b>Mr. Claude Weber</b>
	Alternate Delegate	<b>Mr. Jean Klein</b>
Mexico	Delegate	<b>Capt. Isaías Silva Solares</b>
	Alternate Delegate	<b>Dr. José Luis Cervantes Aguilar</b>
Netherlands	Delegate	<b>Mrs. Sanne Haarhuis</b>
	Alternate Delegate	<b>Mr. Erwin Pellegrrom</b>
New Zealand	Delegate	<b>Mr. Scott Cursons</b>
North Macedonia	Delegate	<b>Mr. Borce Paunovski</b>
Philippines	Delegate	<b>Mr. Jose Mari "Joy" Roa</b>
Poland	Delegate	<b>Mr. Witold Filus</b>
	Alternate Delegate	<b>Mr. Arkadiusz Iwanski</b>
Portugal	Delegate	<b>Mr. Anibal Soares</b>
Romania	Delegate	<b>Mr. Dan Chiriac</b>
Russia	Delegate	<b>Mr. Yury Mityagin</b>
	Alternate Delegate	<b>Mr. Vladimir Karnaukhov</b>
Saudi Arabia	Delegate	<b>Mr. Ahmad Talal Almahrouqi</b>
	Alternate Delegate	<b>Mr. Nouf Ahmed Alnami</b>
Serbia	Delegate	<b>Mr. Srdic Srdjan</b>
Slovakia	Delegate	<b>Mr. Juraj Brezan</b>
	Alternate Delegate	<b>Mrs. Anna Nociarová</b>
Slovenia	Delegate	<b>Mr. Branko Ambrozic</b>
South Africa	Delegate	<b>Mr. Richard Bovell</b>
	Alternate Delegate	<b>Mrs. Felicity Clegg</b>
Spain	Delegate	<b>Mr. Ricardo Aracil Romero</b>
	Alternate Delegate	<b>Mr. Carles Figueras Leal</b>
Sweden	Delegate	<b>Mr. Hans Åkerstedt</b>
	Alternate Delegate	<b>Mr. Bengt Stener</b>
Switzerland	Delegate	<b>Mr. Marc Andre</b>
	Alternate Delegate	<b>Mr. Ralph Fasler</b>
Thailand	Delegate	<b>Mr. Pol. Maj. Gen. Somchai Klongak-Kara</b>
	Alternate Delegate	<b>Mr. Tawin Dumkhum</b>
Turkey	Delegate	<b>Mr. Ismail Keremoglu</b>
	Alternate Delegate	<b>Mr. Gokhan Ucaroglu</b>
Ukraine	Delegate	<b>Mr. Igor Lobashov</b>
United Arab Emirates	Delegate	<b>Mr. Yousif Hassan Ali Al Hammadi</b>
	Alternate Delegate	<b>Mr. Mohammed Yousif</b>
United Kingdom	Delegate	<b>Mrs. Lindsay Muir</b>
	Alternate Delegate	<b>Dr. David Bareford</b>
USA	Delegate	<b>Mr. Andy Baird</b>
	Alternate Delegate	<b>Mr. Sam Parks</b>
Venezuela	Delegate	<b>Mrs. Julieta Chiriboga de Gonzalez</b>

Representative to	CASI	<b>Mr. Mark Sullivan (USA)</b>
Representative to	EnvC	<b>Mr. Steve Ireland (AUS)</b>
Representative to	CIEA	<b>No representative</b>
Representative to	CIMP	<b>Dr. David Bareford (GBR)</b>
Europe Air Sports		<b>Bureau will appoint if necessary</b>

## 21 CIA DONATIONS SCHEME

### FORM FOR USE WHEN MAKING PAYMENTS TO FAI/CIA BY CREDIT CARD

To: **Fédération Aéronautique Internationale,  
Maison du Sport International  
Av. de Rhodanie 54  
CH - 1007 Lausanne  
Switzerland.**  
Tel: + 41 21 345 1070, Fax +41 21 345 1077

From: (country)

I/we hereby authorise you to debit my/our credit card as follows:

Type of card (Mastercard or Visa):

Number:

Expiry date:     CVV number:

Name on card:

Sum to be debited:

Reason for payment:

Name:

Date:

Signature:

## 22 CIA STATISTICS

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### CIA Statistics and delegate reports

The statistics together with the delegate report are a way for a country to proudly present what is going on their country with regard to hot air ballooning. This year we will try to put together a presentation in which we can show to all the delegates what is going on with ballooning around the world. Please attach pictures of what has been going on in your country this year. A word document that can help you writing your delegate report is also attached.

This information helps the CIA to defend its position and interests in FAI, and an accurate return is therefore very important. Members are reminded of their obligation under Chapter 8 of the CIA Internal Regulations to make an annual return of their national statistics.

Please send back the excel sheet for the statistics and the word document for the delegate report attached to this newsletter to the **CIA Secretary by the 31st January 2021** ([sanne@sannehaarhuis.nl](mailto:sanne@sannehaarhuis.nl))

In 2020 the **COMPETITOR'S RANKING LIST** **does not** need to be submitted along with the return of the statistics as a new web-based system has been implemented, nevertheless we kindly suggest that you submit a copy for this year.

**You will find the new Excel sheet attached to the email with this newsletter.**

### Newsletter Contributions Welcome

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Thank you to those who submitted articles and photos.

Contributions are welcome and should be sent to the CIA Secretary at the email address below.

Sanne Haarhuis, CIA Secretary	Mobile: +31628262204 Email: <a href="mailto:sanne@sannehaarhuis.nl">sanne@sannehaarhuis.nl</a>
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### Information Published

*The CIA Newsletter is published by the CIA Secretary on behalf of the CIA Bureau. All information is believed to be correct at the time of publication, but no responsibility can be taken for any errors, omissions etc.*



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