



#### International Aviation Law LL.M. Newsletter





#### I, ISSUE I

## The Hague Court of Arbitration for Aviation

In this Issue:

#### By Dominik Weiß

Feature Article

The Hague

disputes among members of the aviation sector are still rearbitration, even though arbi-

Dominik Weiß is an Aviation and Employment Lawyer with the Weisenheimer Law Firm in Vienna. Dominik is pursuing a Masters in International Aviation Law LL.M. at Université Toulouse 1 Capitole,

linkedin.com/in/dominik-weiss-at

mailto:dominik.weiss25@gmail.com

INSIDE THIS ISSUE:	
Editorial	2
Innovation	3
CORSIA	5
Short Haul Ban	7
ConcorDIA	8
History	9

advantages for the parties involved in the dispute. The

recently established Hague ther ensures the Court of Arbitration for Avia- court's neutralition (Hague CAA) could contrib- tv. ute to change this by offering Similar to other specialized arbitration in avia- industry specific tion related matters.

Especially in the context of Court of Arbitrainternational commercial dis- tion putes within the aviation sec- (CAfA), tor, arbitration offers several Chambre advantages compared to litiga- trage Maritime tion. For instance, the possibil- de Paris (CAMP) or the Court of procedural rules set forth expe-

opinion of expert witnesses. in the proceedings. solved by litigation rather than Another practical advantage is As a consequence of its aviathat due to the widely ratified tion specialization, the Hague New York Convention, the in- CAA's procedural rules were ternational enforcement of designed to meet the particular arbitration awards is often needs of the aviation sector, much easier than enforcing especially for speed and flexirulings of national courts. Further, by choosing arbitra- have the possibility to appoint tion in a country, in which none an emergency arbitrator to of the involved parties is based, decide urgent measures within tration may vantage" of one party is elimi- or her appointment. The Hague offer several nated. The new Hague CAA is CAA is also offering more flexinot affiliated with particular bility regarding the location of

tion Institute (NAI), which fur- countries. Additionally,

courts like the for Art the Arbi-

and the technology used in- the Hague CAA, parties have consent thereto.

stead of having the dispute access to the court's pool of decided by a judge with no link aviation law and technology In many cases, commercial to the aviation sector, who is specialists, who can act as arbioften heavily depending on the trators, mediators, or experts

> bility. For instance, the parties possible "homefield ad- a maximum of 15 days after his parts of the aviation industry hearings and the possibility of and administered by the widely their virtual attendance comrespected Netherlands Arbitra- pared to litigation in most the



ity to appoint an arbitrator Arbitration for Sport (CAS), the dited proceedings for amounts with special knowledge of the Hague CAA's main selling point in dispute of less than € 10 aviation sector, aviation law is its specialization. By choosing million or when the parties

### **EDITORIAL**

### **Aviation Sector is at Risk!**



Prof. Laurent Grosclaude is Head of LL.M. Aviation Law chez University Toulouse Capitole. He is also Aviation Law Professor, ENAC—*Ecole Nationale de l'Aviation Civile.* Prof. Grosclaude earned a PhD, Law from the University of Paris 1 and is the Editor-in-Chief and advisor to this publication.

#### linkedin.com/in/laurentgrosclaude-032a25100

laurent.grosclaude@utcapitole.fr

#### By Prof. Laurent Grosclaude

Aircrafts are very sensitive to winds. Tail wind: a quicker than expected post-covid traffic resumption (84 % of 2019 traffic in 2022, probably 110 % in 2023), the best traffic forecast ever for 2040 (8,5 bn), a jam-packed backlog at least for the EU manufacturer, and arrogantly healthy financiers and lessors... Front wind: among all transportation sectors, aviation is from far the less decarbonized (that is to say the most polluting...); if aviation represents today 3% of all carbon emissions, the dramatic rise of the traffic combined with the quick decarbonization of the other sectors will logically lead to a 9 to 10 % share in 2035/2040.

Do we have today the technical solution to fly zero-emissions? No. Will we have it in 2040? It is doubtful. Electricity production is widely fossil-fuels-based, S.A.F. are very costly and raise the dilemma *food or fuel*. Hydrogen is a far horizon. Even though we find THE solution to fly zero-emissions by 2040, how long will it take to replace the existing 40,000-aircraft in service in 2040? And who can seriously believe and demonstrate that offsetting is the solution?

Flying has been, is, and will remain a dream. Aircraft will not disappear but if we continue to put the head in the sand, the sector will legitimately be under attack.

Aviation needs to reinvent itself, but this takes time, and we no longer have this time.

For the time being, the solution is in us, the solution is us, we who love aircraft and aviation more than everything. By flying less, we will contribute to save the planet and certainly the aviation sector.



Thanks to its dynamic and bright students, the Concorde intake initiated, drafted and published this very first edition of The Legal Flyer. I am proud of their creation. Enjoyable reading to all!

# The Hague Cont.

Another important way of dis- the Hague CAA. tion. By choosing this way and resolving their disputes by pose. finding an amicable solution, mediation parties are often able to avoid high procedural costs and to continue their business relationship relatively unharmed. Mediation is also offered by

ation sector, the newly estabpute resolution and valid al- Overall, many parties are well lished Hague CAA is a promisternative to litigation is media- advised to seriously consider ing new venue for this pur-

> or arbitration rather than litigation. For members of the avi-



### **INNOVATION & AVIATION**

Yashvi Padhya is an Aviation and Intellectual Property Lawyer and Patent Consultant. Currently Yashvi is pursuing a Masters in International Aviation Law LL.M. at Université Toulouse 1 Capitole, France. https://www.linkedin.com/in/ <u>yashvipadhya</u>

#### yashvipadhya@yahoo.in



#### By Yashvi Padhya

ing, assignments, opment sectors to ensure of ICAO. After COVID-19

their relevance in the up- the aviation industry has coming markets. The prior- seen a boost in innova-The aviation industry is itization of innovation de- tions not only limited to one of the most innovation pends on two things: regu-sustainable aviation fuels driven industries owing to latory compliance and but also in use of cloud the fact that it often has to competition. In such a technology, block chain, rise to the demand of com- niche field it is often that predictive petition, customers, or the companies are working technology, compliance. This gives rise on solutions for problems of airports, in-flight techto a well-founded and dy- which are faced by their nology, etc. namic ecosystem of licens- clients and also to innoand vate in order to comply fierce protection of Intel- with the directives of aulectual Property within the thorities, for example, the industry. Companies invest research undertaken to a significant amount into accomplish the 2050 net their research and devel- zero carbon emissions goal

maintenance digitalization



### **INNOVATION & AVIATION CONT.**

steady rise in IP infringement cases charge an Archer employee accused en rise to more cooperation within within the industry. The UK High of stealing trade secrets. Both the industry. Start-up innovators are be-Court adjudicated a case in later half companies are fierce competitors to ginning to play a key role in being the of 2020 filed by Lufthansa Technik AG enable zero-emission air taxis for driving force behind the innovation (Lufthansa) for infringement of their short distance travel over urban are- race with more and more companies 'electric power supply device' for use as. The trial is set to begin in early relying on bringing in outside invenin commercial cabins, wherein the 2023 and would be significant in illus- tions rather than just focusing on incourt rules that the patent was in fact trating the interplay of aviation and house R&D. This has led to expansion infringed by the defendants. In 2021, intellectual property. Another note- of the field and given rise to competi-Wisk Aero sued Archer Aviation for worthy litigation has been initiated tion which will result in better seralleged patent infringement and between inflight connectivity provid-vices for the public at large. trade secret theft of its electric air- er SmartSky Networks against Gogo craft designs which were submitted to Business Aviation alleging infringethe USPTO in January 2020. Wisk also ment of four of their patents for the alleged that Archer employed ten forthcoming 5G air-to-ground (ATG)former Wisk engineers and one of supported inflight connectivity. those employees stole confidential data; however in early 2022 the US

Along with this boost has also been a Federal prosecutors decided not to The need for innovation has also giv-



## Antonov 225, Maria



#### by Airton Da Paixão

Our Director has indicated that he is considering allowing the Concorde Class to bestow a name on the next International Aviation Law LL.M. class. I would like to make a pitch to my colleagues that we suggest Maria in honor of the Antonov 225. In my view this aircraft, of which one existed and has sadly been destroyed, is a majestic and iconic testament to humankind's perpetual quest to press the threshold of aviation's utility. There is an ongoing effort to raise funds to return the damaged aircraft to airworthy condition, however, this enthusiasm may be a bridge too far as the cost would be astronomical. I think that we can participate in keeping the "Dream" alive by naming the next class Maria.

"A majestic and iconic testament to humankind's perpetual quest to press the threshold of aviation's utility." Airton Da Paixão

### THE KEY TO THE BALANCE OF AVIATION TECHNOLOGY, ECONOMY - AND THE ECOLOGICAL PURITY OF OUR COMMON HOME - NATURE

### Carbon emissions for aviation

#### By Sofiya Denisova



One of the main modern problems in the aviation industry is the problem of reducfor international aviation. Airlines should

2. The issue of responsibility for CO2 emissions, the es-

controlled: at the international or state level?

Sofiya Denisova is a practicing lawyer and former Senior Attorney with Nordstar Airlines and is currently pursuing a Masters in International Aviation Law LL.M. at Université Toulouse 1 Capitole, France. https://www.linkedin.com/in/sofiya-denisova-901a1a253 mailto:sofiya.denisova1998@gmail.com

> think about the environment and the problems associated with climate the world, including reducing CO2

ation activities. It is impossible not to necessary to create such an internamention France, one of the first coun- tional regulation of mandatory envitries that began to take care of this ronmental technologies in the aviaproblem. France has previously raised tion industry, which will be applied by the issue of reducing flights over its territory in order to reduce CO2 emissions and on December 02, 2022, the ing carbon emissions European Commission approved a ban on domestic flights between French cities, the distance between which can be overcome in less than 2.5 hours by train. Also the large companies engaged in aircraft construction are actively engaged in this issue. For example, Airbus is developing new aircraft that will run on hydrogen internal combustion engines.

> This ZEROe project is aimed at improving the environmental situation in

CO2 emissions from international avi- lawyer in this field, I believe that it is





change, as well as what needs to be done to minimize CO2 emissions into the atmosphere. At the international level, there is already such an organization as CORSIA, which deals with environmental issues in international aviation. CORSIA has developed Annex No. 16, according to which there are certain deadlines for reporting

emissions.

Currently, the task is to solve such a legal problem as finding a reasonable balance between strict state regulation of environmentally friendly technologies in the aviation industry and the economic efficiency of their implementation and use. As a practicing

most countries of the world on a voluntary basis.

Moreover, it is necessary to choose different models of regulation of environmental standards of the aviation industry - depending on the specifics of the region of their application: either "hard law" or "soft law". It is also necessary to consider the possibility

### Carbon emissions for aviation Cont.

of CORSIA to act not only as a control- in the aviation industry are no excepling organization on the part of the tion. The issue of environmental prob-ICAO, but also an organization that lems is acute in the world, especially will be able to set standards and hold in developed countries, so airlines and violators accountable.

the operation of legal norms is en- 21st century without taking care of sured, among other things, by State the environment, and this should not sanctions. Environmental regulations be forgotten.

states should pay more attention to environmental problems. There will In conclusion, I would like to note that be no sustainable development in the

### **C SIA**

It is the first global marketbased measure for any sector and represents a cooperative approach that moves away from a «patchwork» of national or regional regulatory initiatives.



#### **EUROPEAN UNION GIVES LEGALITY TO FRENCH BAN ON** SHORT HAUL FLIGHTS WITH A FEW STIPULATIONS

#### By Francis Metumba Ikomey

France made history by becoming the first EU member state and first nation worldwide to impose restrictions on air travel over concerns for its

Francis Metumba Ikomey is a Senior Legal Counsel, solicitor, advocate and Notary Public. Francis is currently pursuing a Masters in International Aviation Law LL.M. at Université Toulouse 1 Capitole, France. Linkedin.com/in/francis-metumba-ikomey-90254b24 fmikomey@gmail.com



environmental impact. This is a great step in fighting the France's original ban also in- was taken by train. scourge of aircraft borne CO2 emissions.

ban in a 2021 climate law, this ban was proposed by the country's Citizens Convention on climate and became effective in April 2022, but its legality was challenged by French airports, airlines as well as Airports Council international's The European Commission has European branch on grounds of discrimination of passengers.

European commission to carry out an in-depth investigation to look into the matter, making it Services Regulation) which the the first time this article of Air Services Regulation is raised by ning to revise. an EU member state.

has now published its decision rail lines as part of its TEN-T of the 2nd of December project, in an effort to make 2022 to accept the ban on more short-haul flights redunroutes with a regular and direct dant, including a 60 kilometre train alternative of two and a tunnel linking Milan to Paris half hours or less in France.

Although French lawmakers originally proposed to cut eight About 12% of of France's dointernal flight routes, only mestic flights will be affected those from Paris Orly Airport to by the ban according to the Nantes, Bordeaux and Lyon Guardian newspaper, which were confirmed to provide the also noted that carbon emisrequired rail services. These sions for each passenger on a three routes will be prohibited domestic flight is 70% higher for any airline.

cluded a proposed exemption to domestic flights that are The french goverment states part of a multi-stop interna- that future improvements in France initially included the tional journey, but this exemp- the rail sevices in particular, for tion was removed by the Com- the purposes of connecting mission. The European com- flights will enable more routes mission vetoed this planned to be added to the ban. exception because it would have allowed most of the Greenpeace climate crusaders flights to continue operating.

also limited the current ban to a three-year time period, mandating that it is reviewed after two years. This time limit is The challenge spurred the meant to comply with the European law on which the french ban is based (The Air commission is currently plan-

The European Union is working The European Commission on a series of new high speed

that will see the seven hour journey cut into half.

than long-haul routes, which is six times higher than if the trip

believe the ban is a baby step in the right direction.





# ConcorDIA

#### By Raluca Karassi

Dear reader, we have wonderful news to share with you! On 10 March 2023, the "Concorde Intake" class had the constitutive meeting



of the first Association of the students to the Master 2 LLM International Aviation Law of the University Toulouse I Capitole. Our Association, who will be

Raluca Karassi is a career diplomat in Romania currently on sabbatical as she is currently pursuing a Masters in International Aviation Law LL.M. at Université Toulouse 1 Capitole, France. Raluca is also an intern in the Export Control Department at ATR in Toulouse.

#### linkedin.com/in/raluca-karassi-111138a

raluca.karassi@gmail.com

named **CondorDIA** (a fusion of "Concorde" and the French translation of the subject of our course -Droit Aerien International-International Aviation Law).

The scope of our Association is "to promote the LL.M. International Aviation Law in France and abroad, to organize and promote activities related to training, to inform professionals in the aeronautical sector of the activities of the Master, to disseminate to the general public the developments related to air law, and to defend the interests of the students of the Master 2 LL.M. International Aviation Law. The Association's primary aim is to foster a bond among currently enrolled students, past and future

students as well as creating a forum for honorary members with a common interest in International Aviation Law.

We proudly present you the Association's logo, which captures our essence: people from all around the globe, driven by the love for knowledge and the passion for law and aviation, with the upward vision and determination to boldly push the boundaries of both sectors.

To present we held one meeting of the Association's constituents at which time we introduced the initial cadre of officers, our official logo and voted on the adoption of the bylaws. Your present officers are **Dominik Weiβ**, President, **Yashvi Padhya**, Treasurer, **Raluca Karassi**, Secretary. Noteworthy in launching of the Association is current class member **Marie Linieres** who contributed substantially to the drafting of its bylaws.

I hope that this is the beginning of a fruitful cooperation among likeminded individuals of the world. In the future the Association will have its dedicated website with an e-mail address and a forum for those who wish to join the association, offer suggestions or make financial contributions. Those who are too excited to wait until this happens, in the meantime can reach the Association through its secretary **Raluca Karassi** at: <u>ralu-</u> ca.karassi@gmail.com





**Dominik Weiβ** President



Yashvi Padhya Treasurer



Raluca Karassi Secretary



Marie Linieres Author, Bylaws



8



# A Brief History of Selected Aviation Milestones

#### by Airton Da Paixão

The fascination with flight: Dreaming about it, putting it on paper; and acting on those inquisitive dreams involved acts of courage, resourcefulness, innovation, the technology and resilient persistence.

The primary limitation of flight was overcoming the laws of gravity, the rules of motion, the lack of materials, a means of propulsion and controllability of an de Proie, at the Bagatelle aircraft.

To understand how these challenges flew a distance of 60 were overcome it is fitting that we examine a chronological timeline of milestones that led the current state of the art and the the pioneers' discoveries and inventions

One of the first recorded feats of overcoming gravity and taking to the sky was the hot air balloon of the Montgolfier brothers of France who flew their balloon on June 4, 1783.

Each success rests on the shoulders of those who in the same pursuit failed. Although it is not the focus of this writing, we must acknowledge the ac-

complishments and the progress achieved Channel which he accomplished in 1909 on the basis of the contributions of those who were not successful. With this in Daily Mail newspaper. He also was the mind we next consider the contributions of the Wright brothers.

The Wright brothers, Orville and Wilbur are credited with inventing and building the first heavier-than-air aircraft and successfully flying it at Kitty Hawk, North Carolina, on December 17, 1903, at the brothers' home country, USA. Their claim to be the first has been challenged by their domestic and foreign contemporary pioneers, however, it is generally accepted that they were the first and they The Wright Flyer continued to improve on that original model.

Alberto Santos-Dumont, a Brazilian of Portuguese and French heritage was a



significant contributor to the quest of sustainable and controllable flight. His aeroachievements were in Paris where he, in

**Alberto Santos-Dumont** 

Prize. He improved on that model and progressed to powered heavier-than-air aircraft and recognized was by Fédération Aéronautique Internationale for his flight on 23 October 1906 in his 14-bis, also known as the Oiseau Gamefield in Paris. He meters at an altitude of two to three meters.



Louis Charles Joseph Blériot

to

and

well-

the

lish

to

known



winning a £1,000 prize awarded by the



first to fly an aircraft with two passengers, one of which was Alberto Santos-Dumont. He went on to start a successful aircraft manufacturing company named Blériot Aéronautique.

On May 20-21, 1927, Charles Lindbergh, an American aviator, completed nautical studies and the first solo transatlantic flight having flown the 3,600 mile distance from New mostly accomplished York to Paris in 33.5 hours

The invention of the jet engine is credit-1901, flew a powered ed to Frank Whittle and Hans Ohain. airship around the Ohain's engine for which he obtained a Eifel Tower for which U.S. patent in 1939, was an axial-flow he won the Deutsch engine and Whittle's engine was a centrifugal flow engine. On October 14, 1947,

Louis Charles Joseph Blériot, a French Chuck Yeager broke the sound barrier on many applications that now benefit from aviator and inventor made significant con- the Bell X-1 Glamorous Glennis having tributions flown at Mach 1.05. Prior to his flight it the was not known if an aircraft could stand flight at speeds above the speed of sound. advancement of This discovery opened up the possibility of supersonic flight in the both the miliaviation is tary and commercial arena.

Commercial flight is believed to have started in the United States. Based on the for being accepted definition of commercial flight first the first such flight recorded took place on cross January 1, 1914, with one paying passenger, Abram C. Pheil, who flew from St. the Eng-Petersburg, Florida, across the bay to Tampa, Florida. It was a 27-kilometer flight, and it took 23 minutes.

Fly-by-wire technology in commercial aviation was introduced by the Airbus A320. This innovation was significant because it not only improved flight control it substantially reduced aircraft weight. Another important factor is that it now made switching from one model of aircraft to another easier as the flight control characteristics are very similar regardless of aircraft weight.

Airbus has the distinction of having the



**Charles Lindbergh** 

# **Brief History of Aviation, Cont.**

the introduction of the A380 in 2007. Of determined by first identifying the pre- means of transporting people and cargo greater note is its safety record which is ferred definition of largest. Delta Airlines and is projected to continue to grow in the squeaky clean save one engine failure that is the largest if measured by its revenue future. Challenges going forward: Susdid not result in loss of the airframe or and market capitalization. China Southern tainability and sensitivity to the environinjury to passengers or crew.

the oldest airline that is still in operation. size. Federal Express is the freight cham- significant a role going forward as it did in Its headquarters is at the Schiphol Airport pion by ton-kilometers transported, Rya- the pioneering days. in Amsterdam, and it serves 130 destina- nair by number of routes, Turkish Airlines tions.



by the number of countries it serves and

UPS by the number of destinations.

largest aircraft currently in the sky since The largest airline in the world can only be Air travel has become indispensable as a by the number of revenue passengers car- ment; crowded airspace and airports. In-KLM began operating in 1919 making it ried, and American Airlines by its fleet novation will have to continue playing as



**Bell X-1 Glamorous Glennis** 

#### Chuck Yeager

### CJEU Judgment Case C-597/20

By Sun Jaroensiridamrong

On 29 September 2022, a judgement on Case C -597/20 was issued by the Court of Justice of the European Union (CJEU) stating that designated National Enforcement Bodies (NEBs) under article 16 of Regulation No 261/2004 (the Regulation) may, in response to individual complaints, compel an air carrier to pay compensation to passengers.

Sun Jaroensiridamrong completed his law studies at Thammasat University in Thailand. Sun is pursuing a Masters in International Aviation Law LL.M. at Université Toulouse 1 Capitole, France..

Linkedin.com/in/sun-jaroensiridamrong-1511b2136

sunjrs1999@gmail.com



against individual passenger plaints solely on the namember states. Furthermore.

and air carriers are able to bring their proceed- mark's National Enforcement Body is the Danings before national courts, the power of NEBs ish Civil Aviation and Railway Authority. It proto compel an airline to pay compensation to cesses passengers complaints free of charge the passengers depends again, solely on the

national law of each member state. Germany's National Enforcement Body "Luftfahrt-Bundesamt" clearly states in their website that "Luftfahrt-Bundesamt does not provide any compensation or reimbursement services to passengers based on Regulation (EC) No. 261/2004 and we cannot enforce civil law claims of individual passengers against the To summarize, the CJEU held that the *airline concerned*". While most of the member states apply this approach, member states such as Ireland and Denmark apply a total opposite standard where they confer a much more powerful enforcement duty upon their NFRs

> The Commission for Aviation Regulation (CAR) is the designated enforcement body in Ireland. In accordance with article 45 (a) of the Aviation Act 2001 (amended in 2006) and Statutory duty of NEBs to act Instrument 274/2005, CAR may issue a "Direction" when there is a non-compliance by com- an air carrier. The Direction may instruct an air depends carrier to pay compensation to the passengers. Failure to comply with a Direction would be a tional law of the criminal offence subjected to prosecution. According to CAR'S 2020 Annual Report, out of as 3454 cases submitted between 1 July 2019 and CJEU's judgement: https://curia.europa.eu/ long as passengers 30 June 2020, 87 directions were issued. Den- jcms/upload/docs/application/pdf/2022-09/

within 3-6 months. Complaints that are upheld by the authority to refund or compensate the passenger must be complied with by the air carrier. The air carrier has four weeks to compensate the passenger. If the air carrier fails to compensate the passenger, a written warning is issued. In the case where the air carrier still fails to pay, the authority will send the complaint to the prosecution office. Any parties that disagree with the authority's decision may always present their case before national courts.

Due to the vagueness of article 16 of the Regulation, standards and procedures of national enforcement bodies are to an extent, applied differently throughout each member state. This ruling of the CJEU however confirms that the Regulation does not prohibit nor oblige NEBs to compel an air carrier to provide redress to passengers, such matter depends on the domestic law of the member states.

cp220163en.pdf

# The Concorde

#### by: Airton Da Paixão

It is impossible for an aviation enthusiast not to stand in awe in the presence of the Concorde the supersonic commercial transport and the namesake of

Airton Da Paixão is a U.S. based practicing attorney and retired U.S. Air Force flight engineer. He is currently pursuing a Masters in International Aviation Law LL.M. at Université Toulouse 1 Capitole, France. https://www.linkedin.com/in/airton-dapaixao menslegis29@comcast.net

our aviation law class. When our Director, Mr. Laurent Grosclaude, besi Excellence, England, Europe et En- areas. Another negative characteristic tente".<sup>2</sup>

collaborative spirit of France and Britain the positive side of the spectrum was that culminated in the design, manufac- what it delivered which was the reducture and operation of this aircraft with a tion in time of a transatlantic crossing to remarkable safety record, save one un- almost half. A London to New York flight fortunate accident that contributed to took approximately 3.5 hours for any its operational demise.

The groundwork for supersonic flight afford the \$12,000.00 fare. was laid when on October 14, 1947, stowed upon Chuck Yeager broke the sound barrier London-New York and, if desired return our class the on the Bell X-1. Prior to then it was not on the same day. To illustrate the benename Conknown if an aircraft would be able to fit of operating at such high speed conwithstand flight at a speed higher than sider the following: In 1985 promoters until I rethe speed of sound. Following this organized a concert to benefit Africa.

corde I did not realize its

significance searched its "Moral relationship, situation that exists between people having the

same disposition of heart, of mind, and living in harmony, possibly by collaborating in a common work."<sup>1</sup>

Now that I have been enlightened with this word's meaning I am not only flattered, but also feel a sense of responsibility to live up to the expectation that has been placed on our shoulders. It is fitting that we examine the history of how

this magnificent aircraft, the Concorde, received its name. As it turns out there is an interesting history regarding this: "Le 13 janvier 1963, le président français Charles de Gaulle suggéra que l'avion soit baptisé « Concorde » et, le 24 octobre, une première maquette grandeur nature du « Concord » sans « e » fut présentée ; une polémique s'ensuivit sur le nom de l'avion. Le ministre britannique de la Technologie Tony Benn mit fin à la polémique en annonçant : « Le Concord britannique s'écrira désormais avec un « e » car cette lettre signifie aus-

Performance<sup>1</sup>

- Cruise speed: Mach 2.02 (≈1,340 mph, 2,158 km/h) at cruise altitude
- Range: 3,900 nmi (4,500 mi, 7,250 km)
- Service ceiling: 60,000 ft (18,300 m)
- . Rate of climb: 5,000 ft/min (25.41 m/s)
- lift-to-drag: Low speed- 3.94, Approach- 4.35, 250 kn, 10,000 ft- 9.27, Mach 0.94- 11.47, Mach 2.04- 7.14
- Fuel consumption: 46.85 lb/mi (13.2 kg/km) operating for maximum range
- Thrust/weight: 0.373
- Maximum nose tip temperature: 260 °F (127 °C)

<sup>1</sup> Data from Wall Street Journal, The Concorde Story, The International Directory of Civil Aircraft, Richard Seamen aircraft museum

> ceeded to develop prototypes of supersonic aircraft suitable for commercial transportation. They were outdone by the effort of France and Britain who by 1976 were able to commence operation and accumulate a fleet of twenty aircraft with Air France and British Airways each operating ten.

> The Concorde encountered considerable resistance primarily because of the environmental consequence of its sonic boom. This limited operation to destinations near coastlines so that the noise would be over water and not populated

was its four thirsty engines that con-Our class is well poised to emulate the sumed a substantial amount of fuel. On passenger with the deep pockets to

This allowed a business traveler to fly meaning: breakthrough, the U.S. and Russia pro- The project was named Live Aid and

held at a European and an American venue with its duration overlapping. One of the acts, Phil Collins, was booked to perform at both venues in two continents and was only able to accomplish this feat with the help of the Concorde.

Not within the scope of this article is the performance and characteristics of the Concorde. However, I have inserted two boxes with summaries of this information. Also, not considered here are the details of how its operation abruptly ended. Two independent events, a terrorist attack in the U.S. and the

tragic accident in Paris were causal.

Fans of supersonic travel are now experiencing optimistic anticipation as a U.S. company, ironically called Boom, has a supersonic airplane on the drawing board and has received orders from multiple major airlines.

<sup>1</sup>Centre National de Ressources Textuelles et Lexicales, https://www.cnrtl.fr/ definition/concorde

<sup>2</sup>Jean-Pierre Manel, *The Great Adventure of* Concorde, R. Solar, 1969, p. 48



11

# The Concorde in Photos



**Concorde Cockpit** 

Concorde, Tupuleve Tu 144 (Soviet Built) at Sinsheim Transportation and Technology Museum, Germany

#### General characteristics<sup>2</sup>

- Crew: 3 (2 Pilots and a flight engineer)
- Capacity: 92–120 passengers(128 in high-density layout)
- Length: 202 ft 4 in (61.66 m)
- Wingspan: 84 ft 0 in (25.6 m)
- Height: 40 ft 0 in (12.2 m)
- Fuselage internal length: 129 ft 0 in (39.32 m)
- Fuselage width: maximum of 9 ft 5 in (2.87 m) external 8 ft 7 in (2.62 m) internal
- Fuselage height: maximum of 10 ft 10 in (3.30 m) external 6 ft 5 in (1.96 m) internal)
- Wing area: 3,856 ft2 (358.25 m2)
- Empty weight: 173,500 lb (78,700 kg)
  - Useful load: 245,000 lb (111,130 kg)

    Powerplant: 4 × Rolls-Royce/SNECMA Olympus 593 Mk 610 afterburning turbojets
- Dry thrust: 32,000 lbf (140 kN) each
- Thrust with afterburner: 38,050 lbf (169 kN) each
- Maximum fuel load: 210,940 lb (95,680 kg)
- Maximum taxiing weight: 412,000 lb (187,000 kg)

<sup>2</sup> Data from Wall Street Journal, The Concorde Story, The International Directory of Civil Aircraft, Richard Seamen aircraft museum



**Concorde Flight Engineer Panel** 



# Honor Roll







Cas Pratique—SAFRAN

Center: Laurent Grosclaude, Program Director

Frédéric Dehais

The Concorde Class at Université Toulouse 1 Capitole wishes to express its gratitude to the various companies that have partnered with the University and generously contributed to our educational journey. You have welcomed our class into your facilities and provided your most talented individuals to lecture on the relevant topics in our Aviation Law curriculum. The opportunity to benefit from the perspective of people with handson real-world experience from industry-leading professionals is invaluable and greatly appreciated. As the accompanying photos indicate, on occasion the lecture was so spirited that when classroom space was unavailable it continued at a more relaxed venue. In addition to your participation in molding and preparing us professionally some even went the extra kilometer and provided internship opportunities and even consideration for employment. We are deeply thankful to have had this opportunity and hope that this partnership will grow and strengthen going forward. Also, we are very grateful to Laurent Grosclaude, Program Director, and Arnaud Chan who facilitated our admission and matriculation process. Merci beaucoup.



First on Left: Anna Lavrenyuk



Second from Left: Frédéric Yon



L: Arnaud Chan; R: Jan Holtzhäusser



Salomé Masset



Second from Right: Patrick Varin



**Linda Vincent** 

# Honor Roll, Cont.

Distinguished Lecturers and Corporate Partners to whom we Extend our Gratitude and Admiration\*

**Axelle Cartier** Mélissa Ounis **Julian Cohen Karl Hennessee** Mélanie Etienne **Patrick Varin** Frédéric Gaillarde Lukas Rass-Masson **Miguel Urdanoz Nour Alrabie** Juan Manuel Velazquez **Marie Bresson Florence Boubay** Laurent Grosclaude Frédéric Yon **Olivier Ferrante** Salomé Masset Anna Lavrenyuk **Gregory Laville De La Plaigne Anne Faber Matthieu Gualino Anne-Sophie Dalet** Jan Holtzhäusser **Olivier Ferrante** Linda Vincent **Frédéric Dehais Sophie Brugaillere Christelle Tarris** Camila Gonzalez **Olivier Pontreau Michel Fraysse** 

\*Names are not listed in any particular order. Anyone omitted was as a consequence of an honest mistake. Regrettably not all corporate partner's logos are depicted.





### The Concorde Class Tours Musée Aeroscopia and Airbus Facilities

#### by Airton Da Paixao

During the first week of class, we were treated to a guided tour of both Musée Aeroscopia in Blagnac and the Airbus Industrie manufacturing facility. Specifically, we toured the assembly line of the A350. The museum which has been in operation since 2015 and hosts more than two hundred thousand guests yearly, offers a comprehensive history of aviation and an eclectic static display of aircraft with major historical significance. On the tarmac just outside the primary building guests are greeted by a vintage Caravelle, a Concorde supersonic passenger transport and an A400M Atlas tactical military airlifter. The indoor facility does not fail to impress and is graced by three large aircraft. On display and available for interior touring are another Concorde, an Airbus A-300B and a Super Guppy. The Concorde of which twenty were built by France and Great Britain saw commercial operation between 1976 and 2003. Air France and

### **Colleague Profile**

Raluca Karassi our admired and illustrious colleague is a diplomat having served her country of Romania in a long and distinguished career. In her capacity as diplomat with the Romanian Ministry of Foreign Affairs she has held notable positions among them Diplomatic Counsellor and Legal Advisor for the Romanian Embassy at The Hague in the Netherlands, First Secretary, ROU Del to NATO in Brussels and personal counsellor to the Romanian Prime Minister. Raluca studied at the National College of Defense and at the University of Bucharest and holds a Master's in Humanitarian Law from that institution. She found herself in Toulouse after taking a sabbatical from her diplomatic duties to support her husband's career as he is currently a Flight Test Engineer at Airbus. Not one to let her ambition and motivaBritish Airways operated ten aircraft, respectively. The Airbus A-300 was the first twin engine widebody aircraft and was a multi-national endeavor involving multiple European countries. The final assembly was performed at the Airbus facility in

France. The Super Guppy was used to facilitate this multi-national arrangement by transporting major components, such as the empennage and wings for final assembly at Airbus manufacturing plant near Toulouse.

During the tour of the A-350 assembly line we were informed about the many positive attributes of this magnificent aircraft. This airplane comes in two versions the -900 and the -1000. Both built with mostly composite material providing the benefit of superior aerodynamics, lighter weight and reduced incidence of corrosion and airframe fatigue. The aircraft is powered

tion remain at idle for too long she

itole to pursue an LL. M. in Aviation

Law. In addition to being our esteemed colleague, we have relied on

enrolled at Université Toulouse 1 Cap-

her wisdom and expertise as we navi-

experience and providing feedback to

advance improvement to the curricu-

headed a survey and organized a com-

translated into meaningful and syner-

gistic suggestions to improve the pro-

gram going forward. She also was in-

our student association and serves as

one of its officers. Raluca is currently

at ATR as an intern in their export

control department.

strumental in launching ConcorDIA,

lum for future students, she spear-

mittee to gather input that can be

gate our course of study. With the

goal of improving our educational



by the innovative Trent family of Rolls Royce powerplants that deliver reliability, lower fuel consumption and reduced CO2 emissions.



Raluca Karassi