



NewsLetter

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From Newsletter PWG...

Hi EUROAVIANS! This is the last Newsletter of this year! Ah, 2012! We could remember every event, every decision and every feeling that we have lived, but just for a moment, because we'll live another beautiful experiences together!

We have had a lot of changes, new International Board, new Sponsors and new Countries entered in the EUROAVIA's group, but instead of this, the association continues to be united and unique. Really, the deep change is around us, are us. We have to be careful to improve, and not create a wall on our eyes!

As a representative image of 2012, I've chosen a picture of the mission Red Bull Stratos, to remember you that all it is possible; the only important things is the hoped dreams! So, I think that this year has explained to us that, in spite of transformations (good or bad), we are a force! When you look this image, do you feel a heroes? Iron Man? Especially, are you not proud to be alive?

Now, let read the interesting contributions below! Bye! See you the next year!

May the Force be with you!

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IB report

Dear fellow EUROAVIANS,

The last month has been really intense for the IB and most of the work done by IB members was related to International Working Groups. As described in the Business Plan of this year, in each Working Group there are two IB members and most of the times one of them is coordinator of the WG itself. This requires a considerable effort from every IB member and it can bring to have even 5 Skype meetings in a week!

All Working Group are now smoothly running and achieving their tasks and goals toward a better association. An important objective that was set at the beginning of the Business Year was to improve the collaboration among different Working Groups to better aim at common goals. This has brought to a great and ever improving collaboration between the International Events WG, the EYE WG and the PR WG for a better and more consistent help to Affiliated Societies for the organization of international events. The International Events and EYE WG, moreover, have joint their forces in the Design Workshop Working Group that is currently busy in looking for a host (you will soon here from them in the next Newsletter). Last but not the least the IT WG and the PR WG will soon collaborate for the design of the new EUROAVIA Corporate Identity.

There are also many international updates that are worth sharing with you all. A very interesting one, for instance, is related to the student association UKSEDS (UK Students for Exploration and Development of Space) that recently asked for help to the International Board for the organization of their annual conference. This was the perfect occasion to get to know the two societies better and lead, indeed, to many ideas for a more intense collaboration between the two groups. The IB and the UKSEDS committee are currently evaluating all these possibilities and will soon come up with a proposal for a common project. It is worth noticing that UKSEDS is the British branch of the much bigger SEDS with many societies even in USA and India. EUROAVIA and SEDS do not only share many goals and ideas, but they also have together a potential target of more than 100,000 students, reason for which is very much interesting starting

a collaboration!

On a similar topic, we got recently contacted by the AYAA, the Australian Youth Aerospace Association that looks exactly like the Australian version of EUROAVIA! We are currently trying to find out which would be the best possible way to establish collaboration with our far cousins. Some EUROAVIA member might soon have the possibilities to attend a conference organized by AYAA in Australia!

We take the occasion to wish you a Merry Christmas (for those who believe in it) and a Happy New Year! Season's Greetings for the International Board!!!

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IT Working Group Report

Dear EUROAVIANS,

Christmas is getting closer and so are the gifts from Santa. The IT Working Group has decided to anticipate a bit the Christmas night and give to you a great present: a new, perfectly functioning, reliable mailing system!!!

All the issues and malfunctioning of last year moved the Former International Board to look for a structural and permanent solution: the Office365 program offered by Microsoft Corporation was the solution. This program, that is free for educational institutions and therefore for EUROAVIA as well (*for the students by the students*), includes a mailing system, a cloud system connected to a website specifically designed for team management and Office Web Apps.

In the last month Maximilian Martin and Marco Marino were busy testing the mailing system and providing emails for all Working Groups and their members. Today all members internationally active have their own personal email address and guides have been created to show all the potentialities of this new mailing system. Moreover, in the next months all Local Board members of all (Perspective) Affiliated Societies will receive their own personalized email address. A Global Address List with all members using the EUROAVIA domain will be visible for those who will have access to the EUROAVIA domain itself. In this way internal communication will be made even easier: checking who are the members of all other AS will be as hard as a click on your mouse!

As mentioned before, Office365 includes a cloud web based system connected to a website specifically designed for team management. After the initial testing, every Local Board will be given a website so that they could use this tool for optimizing their work as a team.

We are also trying to put another present under your Christmas tree, but it's not 100% we will succeed in the quest: putting online the new website! Gert-Jan and Luca from Oostende are currently busy with finalizing the structure and once it is

ready, it will be the turn of the International Board and of all most active international members to build up the contents of the website. After completing the international part, it will be the turn of the Affiliated Societies' pages: every AS will be given an account to modify and update their own page. The more people will collaborate in updating the website, the more awesome the website will be.

Sided to these projects that are absorbing most of our attention, we are also working on development of a new database for the whole EUROAVIA. This database will contain data of all members of our association, all Working Groups, all International Events and even more, and it will make easier managing this group that is becoming bigger and bigger (today we are 36 AS, 17 countries and more than 1800 members).

Last, but not least, we are collaborating with the PR WG for the update of the EUROAVIA Corporate Identity. During AMEAC 2012 an agreement with AS Stuttgart was reached for the copyright of the EUROAVIA Corporate Identity and the original files has been given by AS Stuttgart to the International Board. In this way it will be easier modifying and updating these documents that represent to a great extent our image

Thank you for having read our report so far and see you at the next Newsletter!

Yours faithfully,

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Happening around Europe

Berlin

Berlin, the epitome of world class innovative and design Engineering was host to the “Advances in Gas Turbine Symposium” from 5th to 7th December 2012. An incorporated event hosted by Technical University Berlin and Technical University of Applied Sciences Wildau; the event marked the latest development in the field of gas turbine technology as well as its future prospects.

The symposium was opened by a lecture from Dr. Josef Hölzl, enlightening us with the design processes involved with developing future concepts especially in companies like Rolls Royce. This was followed by lectures from Prof. Dr.-Ing. Dieter Peitsch and Dr. Werner Spatz who explained us the challenges faced by the aviation industry with respect to Lufthansa Technik. The first day ended with a lecture from FRANKE, who from being a kitchenware company ended up performing fabrication of hot gas parts for engine turbines and concluding tests for ESA.

The spirits night was observed during the end of the first day that turned into as a great ice-breaker event and helped all the EUROAVIANS connect with each other. The second day, hosted at TH Wildau, mainly involved lab sessions on CFD and LabView while another group performed a case study on reducing NOx emissions from engine exhaust showcasing the problems faced by management to meet EU emission norms. During the afternoon, a field trip was organised to Rolls Royce Deutschland facility where the attendees were given a presentation of Rolls Royce operations and then a tour was provided to their engine overhaul and manufacturing facility. Here, we were given a brief description on how our Engineering basics were applied in real world scenarios.

The third day was marked by lectures from CleanSky Projects, MAN Industrial gas turbines as well as continuation on the workshop from the previous day. In the closing, each group gave a presentation on their findings, which was quite impressive explaining what we learned from our workshops. The Gala Dinner was hosted at Reinhardt's which

marked the end of an amazing symposium in true Euroavian aura.

Special thanks need to be mentioned for EUROAVIA Berlin team for organisation a great event with special mentioning to Matthew John Davison the main event coordinator and Michael Schoen, the man behind the veil without whose dedication the event couldn't be pulled off. We from the Euroavia family give our heartiest congratulation to PAS Berlin and hope they organise such events in future.

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Terrassa

Dear Euroavians,

Winter is coming, and here in Terrassa things are heating up towards a busy end of the year. As we just finished our mid-term exams, AS Terrassa prepared a pretty interesting trip to Barcelonès Airport El Prat (IATA: BCN), the second largest airport of the country after Madrid Barajas, with more than 30 million passengers (the 9th busiest airport in Europe). We asked for a special tour designed specifically for us, stressing the more technical side of the airport, something they do not usually do, and we certainly got it.

It all started at Terminal 1 with a visit to CGA (Centro de Gestión Aeroportuaria Airport Management Center), an impressive room where they control everything that happens in the airport, from maintenance to security, through 4 stations: Airport Systems Control, Maintenance Center (CE-MAN), Operations Coordination Center and Airport Services.

Then, we headed to SATE (Sistema Automático de Tratamiento de Equipajes Automatic Baggage-Handling System), responsible for delivering passengers baggage as soon as they can. It was very surprising to discover how fast they track the baggage from the check-in counter to the plane, as they

confirmed to us that the average time was just 5 minutes. They were very proud of their system, as it is one of the best in Europe, with just 4.5 reports per 1000 baggage, a much lower average than other more renowned airports.

And saving the best for last, the end of the tour brought us to Iberias maintenance Hangar, an enormous facility with enough space to do repairing or type C overhauling of some of the biggest airplanes in the market, even the Airbus 380. There, we were honored to have one of their most experienced engineers tell us their work philosophy as well as the complexity of it. We were also lucky enough to be given some lessons with ongoing reparations, so we were able to see open engines and half-painted wings. We were also able to enter a pilots cabin, a first for most of our members. The group was so excited to be this close of in-field work that I truly believe this experience will reaffirm them that their decision to choose this career was right and will inspire them to keep pushing towards their ultimate goal.



Group photograph at Terminal 1

Apart from visiting the Airport, we also have some news regarding one of the association biggest projects, the Upper Atmosphere Space Launcher. It

was just announced that it became a finalist for the Innovation Awards in the Ultramagic International Innovation Awards, a contest with the objective to find new concepts for the aeronautics sector. Even though it did not win, we are elated to congratulate them for this great effort.



UASLs Ultramagic International Innovation Award

So now what? For the last month of the year, we are preparing some really nice things, such as the celebration of our 5th anniversary and our involvement in one of Catalonia's biggest fund-raising and awareness-raising drive for scientific research into diseases which are currently incurable. So if you want to be up to date, look forward to next months number! For more information follow us at [Facebook](#) or [Twitter](#).

See you around Europe!

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International schedule

Date	Place	Activity	Topics / Internet contacts
28/01 - 03/02	Istanbul	Formation Workshop	
March	Southampton/Cranfield	Technical Event	
22/04 - 28/04	Bremen	EMEAC 2012	
August-September	Toulouse	Technical Event	

List of acronyms

AC	Associated Company	IB	International Board
AMEAC	Annual Meeting of the Euroavia Congress	ICM	International Contact Member
AS	Affiliated Society	IEM	International Editor Member
CA	Central Archive	LB	Local Board
DeWo	Design Workshop	NAM	News Advertisement Member
DIB	Designated International Board	NL	Newsletter
EA	Euroavia	PAS	Prospective Affiliated Society
EYE	Euroavia Young Engineers	PWG	Permanent Working Group
EMEAC	Elective Meeting of the Euroavia Congress	SM	Supporting member
FoWo	Formation Workshop	TSP	Travel Support Program
FSP	Financial Support Program	WG	Working Group



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