

GENERAL INFORMATION

Venue

PARIS - SACLAY

Centrale Supélec,
8-10, rue Joliot Curie
91190 Gif sur Yvette

Conference Secretariat

COFREND, French NDT Society
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Conference Material

At the conference, participants will get a booklet of all abstracts of the programme contributions.

Hotel Reservation

We have special conditions for hotels until Sept 30, 2019.
Information and reservation contacts are available on
www.ndt-aerospace2019.com

Website

The www.ndt-aerospace2019.com website has been prepared for the conference. It is updated regularly.

Fees (VAT incl.)

Students (max. 30 years) 250.00 €
(instead of 750 € regular fee)

including all conference activities, abstracts book, conference dinner, coffee breaks, lunch and technical visits.

Technical visits will take place on Friday, Nov 15, 2019, the program is under preparation, ending approx. 16:00.



11th International Symposium on NDT in Aerospace

PARIS - SACLAY

November 13 to 15, 2019



In partnership with



www.ndt-aerospace2019.com



CHALLENGE

Your team (2-4 students) detects and characterizes four artificial defects in a composite component (CFRP) with one or more NDT methods of your choice.

The tests can be performed in your own labs or in cooperation with others but must be properly documented (paper, recordings, diagrammes, video, etc.) such that the NDT method and evaluation procedure can be well presented at the 11th NDT in Aerospace Symposium due in Saclay near Paris/France on November 13 to 15, 2019.

In a special session the teams will present their NDT method or NDT based approach and resulting findings including a live demo if possible, either by a video showing the NDT method in action or even showing the method live during the presentation.

Based on predefined evaluation criteria (see below and further updates on <https://www.ndt-aerospace2019.com/>), an interdisciplinary and independent jury will evaluate the different approaches and results.

To guarantee a fair challenge and good comparability, the test specimens are designed and manufactured by one of the organizers and all contain the same type of artificial defects.

Evaluation criteria:

The criteria upon which the challenge and hence the successful winner will be decided are the following:

- Location and sizing of the artificial defects as well as probability of detection;
- Automation in the sense of structural health monitoring;
- Robustness of the technique proposed (i.e. probability of false calls);
- Quantified cost and speed of the inspection;
- Presentation of the technique (clarity & style);
- Paper submitted for the symposium;
- Live demonstration (video and/or demonstration on site).

Procedure:

- **Until 15th April 2019:**
Teams to register for the first NDT Student Challenge AND the 11th Internat. Symposium on NDT in Aerospace at <https://www.ndt-aerospace2019.com/>
- **May 2019:**
The CFRP multi-curved sheet sample (around 300 x 170 x 50 mm in volume and around 2 to 5 mm in sheet thickness) are sent to the teams for inspection regarding detection of the different artificial defects;
- **November 2019 - 11th Internat. Symposium on NDT in Aerospace Symposium in Paris:**
Presentation of different team solutions in a special session and award ceremony at the social event of the symposium.

The aim of this challenge:

With this challenge, we want to encourage and honour students to apply, invent and present their ideas to an international community coming from academia, authorities, industries and research organisations. We also want to increase the participation of students to international scientific symposia and to provide them a platform for their future career as well as deepening their interest into the field of aerospace and NDT.

THE JURY

The jury will be well selected being composed of members who should not have a conflict of interest with the teams presenting. The members should have a background in aerospace and/or NDT and represent the following communities:

- Academia (professor or lecturer)
- Industry representative with CFRP or aerospace background
- Industry representative with NDT background
- Engineering students (< 30 years old)

Representatives from research organisations are considered as academia. Female participation will be encouraged.

Cost:

The complete team has to register as a student for the symposium. No travel and accommodation cost will be covered. The prize for the winning team has a value of 1,500 Euro and will serve as a deduction of the team's participation cost at the symposium (registration fees, accommodation, travel).

Rules:

- Every team consists of two to four students (PhD students included, student card or enrolment certificate required)
- The complete team has to register for the symposium
- At least one student of the team has to present the results at the 11th NDT in Aerospace Symposium in Paris (November 2019)
- The teams are welcome to seek for technical and financial support from industries and research organisations
- Based on a criteria catalogue to be published on <https://www.ndt-aerospace2019.com/> one or more teams will be awarded by the independent jury

Questions:

For any questions, please contact:

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