

# Advanced Technical Ceramics

**From research to standardization in Europe:  
Thursday 11<sup>th</sup> March 2021**

AFNOR  
11, rue Francis de Pressensé  
93571 La Plaine Saint-Denis France

## EUROPEAN RESEARCH and STANDARDIZATION Representatives

- ❖ Pr Konstantina LAMBRINO: Coordinator of the H2020 project IL TROVATORE
- ❖ Dr Bruno HAY: Coordinator of the H2020 project HI-TRACE
- ❖ Dr Miguel A. Lagos, PhD Project C3HARME.
- ❖ Dr Andreas RENDTEL: Chairman of the CEN/TC 184 committee devoted to the standardization of advanced ceramics
- ❖ Mr Michel CATALDI: Chairman of the CEN/TC 184/SC1 subcommittee devoted to the standardization of ceramic matrix composites
- ❖ Dr Jacques LAMON: Convenor of the Working Group WG4 of the ISO/TC 206 committee devoted to the standardization of ceramic matrix composites

## The European Technical Committee for the Standardization of Advanced Technical Ceramics (CEN/TC 184) Invites you to a day of technical exchanges

By supporting H2020 projects, Europe puts forward innovation and its penetration in the field of advanced technical ceramics.

Standardization is a recognized way to ensure penetration of these innovations and to provide technical and economic benefits.

As industrial actor or researcher organization **this day is organized for you**

### Day content

- The scientific community will report on objectives and progress in their H2020 program activities and the potential impact on standards for advanced technical ceramics.
- The standardisation bodies will highlight the essential elements for improving existing standards and drafting new standards based on results of these programs.





# Advanced Technical Ceramics From research to standardization

## Technical Day free of participation charge with registration.

### European and International Standardization

CEN/TC 184 committee devoted to the standardization of advanced ceramics

Working Group WG4 of the ISO/TC 206 committee devoted to the standardization of ceramic matrix composites

Standardization in the field of Monolithic ceramics – Ceramic matrix composite and their ingredients (Ceramic Powders):

- Methods of test
- Methods of analysis (including Chemical dosage)
- Thermophysic and mechanical

### Presented European H2020 research projects

- **IL TROVATORE:** The Fukushima Daiichi event in 2011 has demonstrated the need for **improved nuclear energy safety**, which can be ensured by the development of **accident-tolerant fuels** (ATFs). The **main objective** of the IL TROVATORE project is to identify and optimize some of the most promising ATF cladding material concepts for Gen-II/III light water reactors (LWRs) and validating them in an industrially-relevant environment, under neutron irradiation in PWR-like water.
- **HI-TRACE:** Many industries such as space, aeronautic, nuclear and glass operate installations at temperatures above 1500 °C using new materials able to work at higher temperatures to optimise processes and increase competitiveness. The objective is to provide traceable thermophysical properties data (ex: temperature of fusion) up to 3000 °C including development of reference facilities, new measurement techniques, calibration methods, uncertainty budgets.
- **C3HARME:** Design, development, manufacturing and testing of a new class of Ceramic Matrix Composites based on **ultra-high temperature ceramic matrices reinforced** with SiC or C fibers suitable for application in severe aerospace environments.

### Participation free of charge with registration required

#### Contact and registration

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### WHERE WE ARE

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**RER B** 'La Plaine Stade de France' (3' walk)  
**RER D** 'Stade de France – Saint-Denis' (10' walk)  
ticket t\* not valid, buy point-to-point ticket

**M** Line 13: 'Saint-Denis Porte de Paris' (15' walk)

**Lines 139 / 153 / 173 / 239**  
(1' walk)

**P** 10 rue des Bretons  
93210 LA PLAINE SAINT-DENIS FRANCE  
(A parking place shall be requested at least 48 hours in advance from your AFNOR contact)

**AFNOR** ⇄ Roissy-CDG: min. 30 €  
**AFNOR** ⇄ Orly: min. 50 €  
(Taxis can be ordered from the reception desk)

The nearest airport is **Roissy-CDG** (20 km)  
www.parisaeroport.fr/en/homepage

AFNOR premises comply with the accessibility guidelines.  
Hearing amplifiers are available at the front desk.