

## ACCESS TO POITIERS & FUTUROSCOPE

### BY TRAIN:

Poitiers is at **90 minutes from Paris** by TGV (high speed train) with 2 stations: TGV Station on Futuroscope area and Poitiers railway station from 8 km to Futuroscope. Departure to Montparnasse station (Paris centre) or the TGV station of Charles de Gaulle Airport (4 links per day – 2h30)

### BY THE ROAD:

Motorway A10, exit n°28– 200 miles from Paris

### BY PLANE:

The airport of Poitiers-Biard is 10 km from Futuroscope and has daily national connections with Lyon (hub for connexion with European destinations). It has also international links with London (direct 1h flight).



### ACCOMMODATION:

Two hotels with **560 rooms** are located in the close vicinity of the **Convention Centre** and about **900 rooms** within a walking distance of 10 minutes: The **Plaza Hotel** (265 room), **Alteora Hotel** (295 rooms)



- 1 - Hôtel du Futuroscope \*
- 2 - Hôtel du Parc \*
- 3 - Hôtel Jules Verne Futuroscope \*\*
- 4 - Hôtel Jules Verne Premium \*\*
- 5 - Hôtel Campanie Futuroscope \*\*
- 6 - Inter-hôtel Alteora Futuroscope \*\*
- 7 - Hôtel Ibis Futuroscope \*\*
- 8 - Hôtel Mercure Futuroscope Aquatis \*\*\*
- 9 - Inter Hôtel Alteora Resort \*\*\*
- 10 - Hôtel Novotel Futuroscope \*\*\*
- 11 - Hôtel Plaza Futuroscope \*\*\*
- 12 - Hôtel Top Club Plaza Futuroscope \*\*\*\*

A number of rooms of various categories at special rates will be booked in the Futuroscope area and downtown Poitiers (Ranging from 50 to 150 € approx.).

There will be a possibility to extend the stay in the area (Loire Valley, La Rochelle and the Atlantic Coast, Bordeaux and the vineyards...) by the adjacent weekends, with the help of the Tourist Office ([www.tourisme-vienne.com](http://www.tourisme-vienne.com)).

## IMPORTANT DATES

Abstract submission: **September 30<sup>th</sup>, 2017**  
Notification of acceptance: **December 20<sup>th</sup>, 2017**  
Full papers: **March 25<sup>th</sup>, 2018**

### PROCEEDINGS

Authors will have the possibility to publish their work. The papers will be peer-reviewed and published in *MATEC Web of Conferences* (open access)

### LANGUAGE

English is the official language of the Congress and must be used for abstracts, papers and presentations.

## CONFERENCE FEES

THE CONFERENCE FEE OF APPROX. 750 € WILL COVER:

- Conference proceedings  
(Final program, Book of abstracts)
- Welcome reception
- Coffee breaks
- Lunch (Mon, Tue, Wed, Thu, Fri)
- Conference dinner

*Discount fees for student*

## VENUE

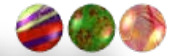
Since it opened in 1987, The Futuroscope Park has received almost 30 million visitors, making it the second largest attractions park in France. There are over 20 theme-based attraction areas spread across 60 hectares and a combined hotel capacity of 1,500 rooms throughout the Futuroscope site.



Futuroscope Technology Park is a 200-hectare technology complex, a unique site of outstanding regional development, a centre of work and learning for 15,000 employees and researchers combining training centres, laboratories, over 160 businesses, an international convention centre.

## THE 12<sup>TH</sup> INTERNATIONAL FATIGUE CONGRESS

## FATIGUE 2018



**May 27<sup>th</sup>, June 1<sup>st</sup>, 2018,**  
**Poitiers, France**

### Second Announcement & Call for Papers

Congress Secretariat:  
SF2M

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Tel: +33 (0)1 46 33 08 00

Mail: [fatigue2018@sf2m.fr](mailto:fatigue2018@sf2m.fr)

[www.fatigue2018.com](http://www.fatigue2018.com)

(templates, on-line submission, up-to-date information...)



**SF2M**  
Société Française de  
Métallurgie et de Matériaux

**Fatigue  
Committee**

With the support of:



## INVITATION

We are extremely pleased to announce the 12<sup>th</sup> International Fatigue Congress which will be held in **Poitiers, France from May, 27<sup>th</sup> to June, 1<sup>st</sup> 2018.**

On the occasion of its return in Europe, the Congress will be hosted for the first time in France, and more precisely on the Futuroscope area located in the "Grand Poitiers" metropolitan area.

This venue, with its unique mixture of cultural heritage and modernity, will constitute a memorable experience for all attendees.

The Organizing Committee will also help delegates who wish to extend their stay by proposing tours with many outstanding attractions.

The Fatigue 2018 Congress will be the twelfth in a series of major international conferences held since 1981. This series aims to provide a discussion forum for both fundamental aspects and practical applications of fatigue, covering all aspects of fatigue, all type of materials, and all fields of interest (transportation, energy, electronics, civil engineering, medicine...). More precisely, potential authors are invited to submit an abstract to the conference secretariat before the deadline in the following topics:

## MAIN DOMAINS

- Corrosion Fatigue & Environmental effects
- Crack initiation process, first stages of crack propagation
- Creep-Fatigue interactions
- Cyclic deformation mechanisms, cyclic stress-strain behaviour
- Fatigue at notches
- Fatigue at very high temperatures
- Fatigue of Structures
- Fretting and Contact Fatigue
- Growth of short and long cracks - Crack growth thresholds
- High Cycle Fatigue
- In service fatigue failure
- Long term durability - aging effects
- Low Cycle Fatigue
- Multi-axial, variable and complex loadings
- Residual stresses in Fatigue
- Thermo-Mechanical Fatigue
- Very High Cycle Fatigue
- Vibrations

## APPROACHES

- 3D approach of fatigue damage
- Advanced experimental methods to characterize deformation and damage processes
- Damage evaluation and Fatigue design
- Development of new models and numerical simulation approaches
- Fatigue behaviour modelling and simulation
- Fatigue life prediction
- Fatigue loading
- Integrated Computational Materials Engineering
- Life extension
- Statistical approach of the durability

## MATERIALS AND PROCESSES

- Additive manufacturing, powder metallurgy
- Biomaterials
- Casting
- Composites
- Concretes, geomaterials
- Deformation (Forging, extrusion, cold working,...)
- Elevated temperature alloys
- Hybrid and architected materials
- Light weight alloys
- Machining
- Polymers and elastomers
- Semi-conductors and Ceramics
- Steels
- Surface treatments, films and coatings
- Ultra-fine grain materials
- Welding

## FUTUROSCOPE CONVENTION CENTRE

The Conference Centre, set up on-site in the technological complex, offers:

- A large amphitheater (1150)
- A medium amphitheater (300 seats)
- A small amphitheater (150 seats)
- An exhibition space of up to 2,200 square meters
- 17 meeting rooms
- A catering area

## COMMITTEES

### Congress Chair

Chair :	G. HÉNAFF
Co-Chair :	
C. GARDIN	C. SARRAZIN-BAUDOIX
Y. NADOT	P. VILLECHAISE

### IFC Steering Committee

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S. W. JOHNSON	K. TANAKA
L. KUNZ	X. R. WU

### Local Organizing Committee

SF2M Fatigue technical committee

### International Scientific Committee

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