



UHPFRC 2024



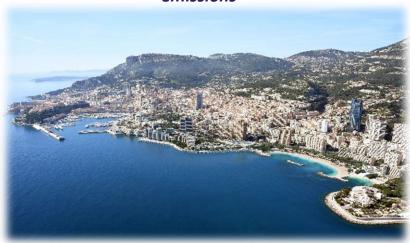
Menton (French Riviera), Oct. 21-23, 2024

Designing, Building and Retrofitting with UHPFRC: Innovative achievements looking to the future

Research, standards and regulations at the service of innovation

A material for the environment: durability, saving resources, reducing CO2

emissions



Mareterra © SAM Anse du Portier

TENTATIVE PROGRAMME

October 21 - 23, 2024

Menton (FRANCE) Le Palais de l'Europe









Objectives

Seven years after the 2017 Ultra-High Performance Fiber Concrete (UHPFRC) conference held in Montpellier, under the auspices of fib and AFGC, focused on the know-how and applications carried out with UHPFRC, it is clear that projects and constructions using UHPRFCs have experienced a marked increase in Europe, in North America and in Asia.

The objective of the 2024 UHPFRC International Symposium organized in Menton by AFGC, under the auspices of RILEM, IABSE, fib and ACI Chapter of Paris, is to update additional experience acquired in the knowledge and use of UHPFRCS:

- design of structures, elements and works
- retrofitting and repair of structures
- industrial realization
- large-scale applications.

The symposium will present the most recent concrete realizations in civil engineering, building and in the field of equipment and infrastructure, in new construction and rehabilitation.

It will deal with regulations and standards developed at the international level to facilitate the design, justify the safety and the reliability of structures.

It will detail the performance offered by these materials towards environment: use in the field of eco-design, saving of resources, durability, reduction of CO2 emissions, life cycle analysis, etc.

Welcome to Menton for UHPFRC 2024

The symposium will be held in the Palais de l'Europe in the city of Menton : 8 avenue Boyer, F-06506 Menton, France. This congress center is located in Menton downtown in a former Casino built in 1908 and totally refurbished for providing efficient meeting spaces.

Menton is accessible via the international « Nice Côte d'Azur » airport, at about 30mn driving time by motorway. Menton is located less than 30 mn-away from Monaco, San Remo (Italy) or Nice and accessible by road or train. Accomodation in Menton can be found in 30 hotels (over 1000 rooms).

A technical visit of UHPFRC applications in Monaco and the French Riviera will be organized during the symposium.



Palais de l'Europe of Menton

Scientific Committee

Chairman

Dr François TOUTLEMONDE (Univ. Gustave Eiffel) France

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Univ. Connecticut

USA

Pr Kay WILLE

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UHPFRC 2024 – Program at a glance

Monday October 21	Tuesday October 22		Wednesday October 23	
	8:30-10:00 Parallel Technical			
8:30-10:00 Registration	Sessions		8:30-10:00	
	Bridges	Structural tests	Students Projects	
10:00-11:00	1000:30-12:00 Parallel Technical		10:30-12:00 Parallel Technical	
Opening Ceremony	Sessions		Sessions	
AFGC-RILEM-fib-ACI-IABSE addresses	UHPFRC cases	Material	Qualification /	Structural tests
11:00 – 11:30 Keynote lecture 1	/ Qualification		Codes / Design	
12:00 - 13:00 Keynote lectures 2 & 3				
13:00-14:30 Lunch	12:00-13:30 Lunch		12:00-13:30 Lunch	
14:30-16:00 Technical Session	13:30-15:00 Technical Session		13:30-15:00 Technical Session	
Bridges	Buildings		Bridges	
16:30-18:00 Technical session	15:00-19:00 Technical Visit		15:15-16:45 Technical session	
UHPFRC cases			Design	
			16:45-17:00	
Welcome cocktail	Gala Dinner		Closure / Students Project Award	



Cannes Multiplex Cinéum © Lisa Ricciotti

Presentation of the AFGC and the co-organizing institutions

The Association Française de Génie Civil (AFGC-French Association for Civil Engineering) is an ideal place for everyone involved in civil engineering (engineers or technicians, architects, academics or students) to meet and exchange ideas. The Association's aim is to link the world of materials to the world of structures, the world of education and research to the world of designing and building and to make the profession of Civil Engineering more appealing to young people. It currently has more than 1280 members. Its ambition is to promote French engineering throughout the world.

Founded in 1904, the American Concrete Institute (ACI) is a leading authority and resource worldwide for the development and distribution of consensus-based standards, technical resources, educational programs, and proven expertise for individuals and organizations involved in concrete design, construction, and materials, who share a commitment to pursuing the best use of concrete. ACI has over 101 chapters, among which the ACI Paris chapter for French-speaking European countries, and nearly 20,000 members spanning over 120 countries.

The International Federation for Structural Concrete (*fib* - fédération internationale du béton) has been created in 1998 from the merger of the Euro-International Concrete Committee and the International Federation for Prestressing. The objectives of *fib* are to develop at an international level the study of scientific and practical matters capable of advancing the technical, economic, aesthetic and environmental performance of concrete construction. These objectives shall be achieved by the stimulation of research, the synthesis of findings from research and practice, the dissemination of the results by way of publications, guidance documents and the organisation of international congresses and symposia, the production of recommendations for the design and construction of concrete structures, the information of members on the latest developments.

RILEM, The International Union of Laboratories and Experts in Construction Materials, Systems and Structures, is a scientific association founded in France in 1947, whose vocation is to contribute to progress in the construction sciences, techniques and industries. RILEM members include the leading building research and testing laboratories around the world with interests in industrial research, manufacturing and contracting, as well as a significant number of individual members from universities and industry. RILEM meets these objectives through the work of its technical committees. Symposia, workshops and seminars are organised to facilitate the exchange of information and dissemination of knowledge.

RILEM publishes the journal Materials and Structures, and many other publications, in the form of reports and proceedings.

The International Association for Bridge and Structural Engineering (IABSE) is a scientific / technical Association comprising members in 100 countries and counting 58 National Groups worldwide. Founded in 1929 it has its seat in Zurich, Switzerland. The President of IABSE (2022-2025) is Tina Vejrum, Denmark. IABSE deals with all aspects of structural engineering: the science and art of planning, design, construction, operation, monitoring and inspection, maintenance, rehabilitation and preservation, demolition and dismantling of structures, taking into consideration technical, economic, environmental, aesthetic and social aspects. The term 'Structures' includes bridges, buildings and all types of civil engineering structures, composed of any structural material.



Palais de la Plage - © JBP - J.Resplendino

Monday October 21 - 10:00 AM - 1:00 PM

Amphitheater

Opening session and plenary lectures

Registration desk open from 8:30 AM

8:30 AM – 10:00 AM Registration - Welcome Coffee

10:00 AM Opening Ceremony

Welcome address from AFGC, Claude LE QUÉRÉ, the President of AFGC

Welcome address by City of Menton Encouragement address from ACI Encouragement address from fib Encouragement address from IABSE Encouragement address from RILEM

11:00 AM - 11:30 AM Keynote lecture 1

11:30 AM - 12:00 AM Coffee break

12:00 AM – 1:00 PM Keynote lectures 2 & 3

1:00 PM - 2:30 PM Lunch break

Monday October 21 - 2:30 PM - 4:00 PM

Technical session: Bridges

Amphitheater

4:00 PM - 4:30 PM Coffee break

Monday October 21 - 4:30 PM - 6:00 PM

Technical Session: UHPFRC Cases

Amphitheater

6:00 PM – 7:30 PM Welcome cocktail offered by City of Menton

Tuesday October 22 - 8:30 AM - 10:00 AM

Parallel technical sessions

Registration desk open from 8:00 AM

Amphitheater: Bridges

Room «Pays-Bas»

10:00 AM - 10:30 AM Coffee break

Tuesday October 22 - 10:30 AM - 12:00 AM

Parallel technical sessions

Amphitheater - UHPFRC Cases / Qualification

12:00 AM - 1:30 PM Lunch break

Tuesday October 22 - 1:30 PM - 3:00 PM

Plenary session: Buildings

Amphitheater

3:00 PM - 7:00 PM

TECHNICAL VISIT IN MONACO



Mareterra- Cantilevered part of the Renzo © SAM Anse du Portier

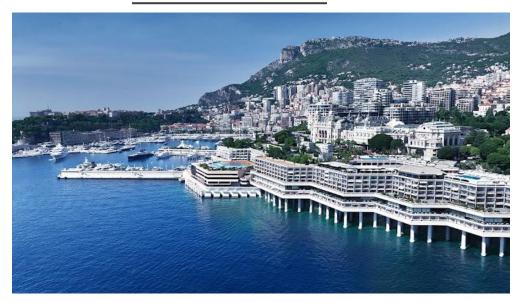


Reinforcement of the Spelugues piers © J.Resplendino

GALA DINER

The gala dinner organized on Tuesday October 22 will be held on the rooftop of the Fairmont Monte Carlo in Monaco.









Wednesday October 23 - 8:30 AM - 10:00 AM

Student session

Registration desk open from 8:00 AM

Amphitheater: Student Projects

10:00 AM - 10:30 AM

Coffee break

Wednesday October 23 - 10:30 AM - 12:00 AM

Parallel technical sessions

Amphitheater: Qualification / Codes / Design

Room «Pays-Bas»: Structural tests

12:30 AM – 1:30 PM Lunch break

Wednesday October 23 - 1:30 PM - 3:00 PM

Parallel technical sessions

Amphitheater: Bridges

Room «Pays-Bas»: Students Projects

Wednesday October 23 - 3:15 PM - 5:30 PM

Technical session: Design

Amphitheater

Wednesday October 23 - 5:30 PM - 6:00 PM

Amphitheater

Closure session / Student Project Award

Closing address, thanks and prospective François TOUTLEMONDE, Jacques RESPLENDINO