

fib Symposium 2025

Antibes - France

Concrete Structures :
extend lifespan, limit impacts

16 - 18 JUNE 2025

Final Program



fib
CEB - FIP

AFGC
Association Française de Génie Civil

Welcome

We have the great pleasure to welcome you for the 2025 fib symposium, Concrete structures: extend lifespan, limit impacts!

This symposium is among the official events of the International Federation for Structural Concrete (*fib*) and covers major issues related to topics of concretes, reinforcements, prestressing and innovative materials, durability, structural and sustainability performances and design, construction methods and management, outstanding structures, numerical modelling, international developments of codes and standards in structural engineering, forensic engineering, monitoring, assessment, rehabilitation and modification of structures...

It will be a great opportunity for the exchange of recent advanced knowledge in concrete and concrete construction.

The symposium is strongly driven by the need of society to extend the lifespan of concrete structures and to build structures with limited impacts on the climate and the environment. All the stakeholders of the construction value chain should work together to achieve this goal.

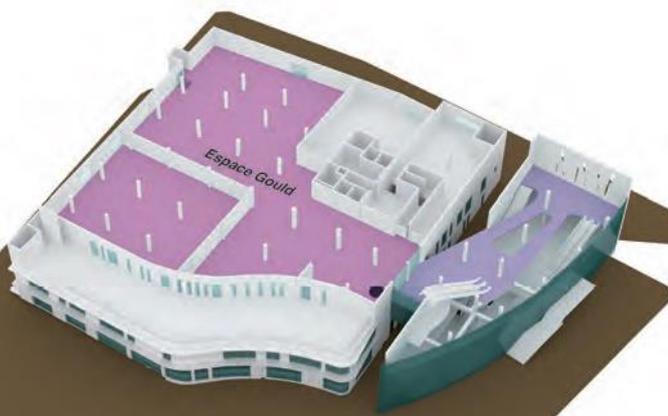
Therefore, this symposium is an excellent forum to share knowledge and learn about durable and sustainable constructions.

Symposium Venue

Palais des Congrès de Juan Les Pins, Chemin des Sables, Antibes, France

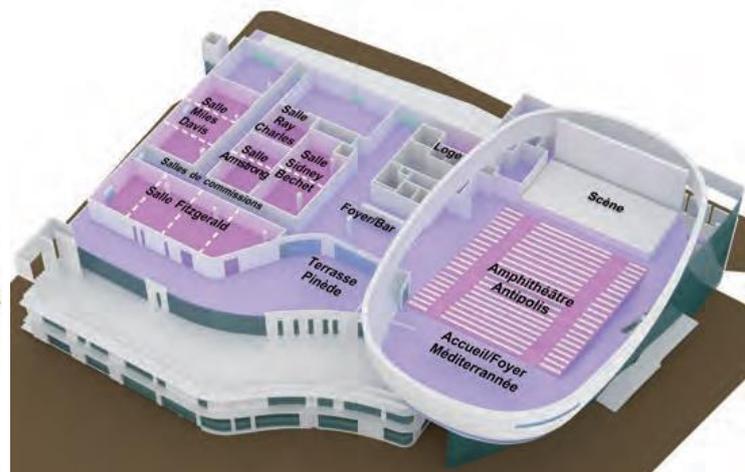


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2nd Floor : Gould Space

Gould 1 Room, Gould 2 Room, Exhibitors, Posters
 Lunches & Coffee breaks



3rd Floor :

Amphitheater Antipolis, Ella Fitzgerald Room, Miles Davis Room, Louis Armstrong Room, Sydney Bechet Room, Méditerranée Space

Photocall

About the organizers



The International Federation for Structural Concrete (fib)

The fib, Fédération internationale du béton, is a not-for-profit association formed by 42 national member groups and approximately 2'500 corporate and individual members in more than 100 countries. The fib's mission is 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.

The knowledge developed and shared by the fib (fib Bulletins, fib events, fib workshops, fib courses, etc.) is entirely the result of the volunteer work provided by the fib members.

The fib was formed in 1998 by the merger of the Euro-International Committee for Concrete (the CEB) and the International Federation for Pre-stressing (the FIP). These predecessor organizations existed independently since 1953 and 1952, respectively.

Contact:

E-mail : info@fib-international.org

Website : www.fib-international.org



The Association Française de Génie Civil (AFGC) is a forum for people working in civil engineering (engineers or technicians, architects, academics or students). The AFGC is an ideal place 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.

The founding members of the AFGC are the Ministry of sustainable development, the professional federations for construction and materials, as well as major owners of public infrastructures and private contractors and consultants. It currently has more than one thousand members (individual or group memberships).

Through close contacts with the IABSE (International Association for Bridge and Structural Engineering), RILEM (International Union of Laboratories and Experts in Construction Materials, Systems and Structures), fib (International Federation for Structural Concrete) and the ACI (American Concrete Institute), the AFGC provides invaluable links between French civil-engineering research and practice and the international scientific community. The Association is a network through which French engineers and researchers working abroad can keep up with French know how. Its ambition is to promote French engineering throughout the world.

Contact:

E-mail : afgc@afgc.asso.fr

Website : www.afgc.asso.fr

Committees

The scientific committee: Co-chaired by Iria Doniak (ABCIC - Brazil) and Matthieu Briffaut (Ecole Centrale de Lille - France)

The members:

Syed-Yasir	Alam	Ecole Centrale Nantes	France
Carmen	Andrade	Centr. for Research in Security	Spain
Miguel	Azenha	Universidade do Minho	Portugal
Gyorgy	Balazs	BME Faculty of Civil Engineering	Hungary
Cristina	Barris Pena	University Girona	Spain
Joaquim	Barros	Universidade do Minho	Portugal
Josée	Bastien	Université Laval	Canada
Beatrice	Belletti	University of Parma	Italy
Farid	Benboudjema	ENS Paris Saclay	France
Brahim	Benmokrane	University of Sherbrooke	US
Hans-Dieter	Beushausen	University of Cape Town	South Africa
Agnieszka	Bigaj Vanvliet	TNO	Nederland
Mouna	Boumaaza	VINCI Construction	France
Véronique	Bouteiller	University Gustave Eiffel	France
Robby	Caspeele	University Ghent	Belgium
Arnaud	Castel	University of Technology, Sydney (UTS)	Australia
Joao Ramoa	Correia	University of Lisbon	Portugal
Hugo	Corres Peiretti	Consultant	Spain
Manfred	Curbach	TU Dresden	Germany
Avraham N.	Dancygier	Technion - Israel Institute of Technology	Israel
Vinh	Dao	University of Queensland	Australia
Albert	de la Fuente	Universitat Politècnica de Catalunya	Spain
Frank	Dehn	Karlsruhe Institute of Technology (KIT)	Germany
Marta	Del Zoppo	University of Napoli Federico II	Italy
Wit	Derkowski	Cracow University of Technology	Poland
Marco	di Prisco	Politecnico Di Milano	Italia
Gerrie	Dieteren	TNO	Nederland
Vyatcheslav R.	Falikman	Structural Concrete Association, Honory Member of Rilem	Russia
Michael	Fardis	University Patras	Greece
David	Fernández-Ordoñez	fib. The International Federation for Structural Concrete	Spain
Emmanuel	Ferrier	University Lyon 1	France
Agnès	Fliscounakis	Strains	France
Inês	Flores-Colen	Universidade de Lisboa	Portugal
Steven	Foster	University of New South Wales	Australia
André	Furtado	Instituto Superior Técnico Universidade de Lisboa	Portugal
Hans Rudolf	Ganz	Consultant	Switzerland
Fabrice	Gatuingt	ENS Paris Saclay	France
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Maurizio	Guadagnini	The University of Sheffield	United Kingdom
Michael	Haist	U Hanover	Germany
Petr	Hájek	TU Prague	Czech Republic
Venkataramana	Heggade	STUP Consultants Pvt Ltd	India
Max	Hendriks	TU Delft	Nederland
Chris	Hendy	AtkinsRéalis	United Kingdom
Ivan	Ignjatović	University Belgrad	Serbia
Alper	İlki	Istanbul Technical University	Turkey
Eduardo	Julio	University of Lisbon	Portugal
Fragkoulis	Kanavaris	Arup	UK
Terje	Kanstad	Norwegian Univ. of Science and Techn. Trondheim	Norway
Akio	Kasuga	Sumitomo Mitsui Construction	Japan

Silvia	Kessler	Univ. der Bundeswehr Hamburg	Germany
Johann	Kolleger	TU Wien	Austria
Kalman	Koris	BME Faculty of Civil Engineering	Hungary
Renata	Kotynia	Lodz Univ. of Technology	Poland
Laurie	Lacarrière	INSA Toulouse	France
Christophe	Lanos	University Rennes	France
Michel	Laurent	University Lyon 1	France
Kefei	Li	Tsinghua University	China
Lionel	Linger	VINCI Construction	France
Barbara	Lothenbach	EMPA	Switzerland
Yann	Malecot	University Grenoble	France
Giuseppe	Mancini	Politecnico di Torino	Italy
Renaud-Pierre	Martin	Université Gustave Eiffel	France
Tor Arne	Martius-Hammer	Sintef	Norway
Steffen	Marx	TU Dresden	Germany
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Eva	Oller Ibars	Universitat Politècnica de Catalunya	Spain
Tor Ole	Olsen	Consultant	Norway
Nadja	Oneschkow	Leibniz Universitaet Hannover	Germany
André	Orcesi	Cerema	France
Alessandro	Palermo	UCSD	USA
Peter	Paulik	University Bratislava	Slovakia
Marisa	Pecce	University of Napoli	Italy
Alejandro	Pérez Caldentey	Technical Univ. of Madrid	Spain
Giovanni	Plizzari	Univ. of Brescia	Italy
John	Provis	University of Sheffield	United Kingdom
Patrick	Rougeau	CERIB	France
Maria Paola	Santisi	University Nice	France
Dirk	Schlike	University of Graz	Austria
Franziska	Schmidt	Université Gustave Eiffel	France
Alain	Sellier	INSA Toulouse	France
Larbi	Sennour	The Consulting Engineers Group	USA
Takumi	Shimomura	Nagaoka Univ. of Techonology	Japan
Johan	Silfwerbrand	KTH Royal Institute of Technology	Sweden
Sandor	Solyom	BME Faculty of Civil Engineering	Hungary
Tayfun Altuğ	Söylev	Gebze Technical University	Turkey
Alfred	Strauss	University of Natural Resources and Life Sciences	Austria
Fernando	Stucchi	Univ. of Sao Paolo	Brazil
Luc	Taerwe	Ghent University	Belgium
Maurizio	Taliano	Politecnico Di Torino	Italy
Ishida	Tetsuya	University Tokyo	Japan
Jean Michel	Torrenti	Université Gustave Eiffel	France
Lluis	Torres	University of Girona	Spain
Nikola	Tosic	Universitat Politècnica de Catalunya	Spain
François	Toutlemonde	University Gustave Eiffel	France
Thanasis	Triantafillou	University Patras	Greece
Tamon	Ueda	Hokkaido University	Japan
Lukas	Vrablik	TU Prague	Czech Republic
Jan L.	Vitek	Metrostav a.s., Czech Technical University	Czech Republic
Robert	Vollum	Imperial College	UK
Roman	Wan Wendner	University Ghent	Belgium
Sherif	Yehia	American University of Sharjah	United Arab Emirates
Bin	Zhao	Tongji University	China

The local Organizing committee :

Claude Le Quéré, co-chair – AFGC / Egis
Jean Michel Torrenti, co-chair – AFGC / Université Gustave Eiffel / ESITC Paris
Corinne Bottolier-Depois – *fib*
Véronique Bouteiller (*fib* head of delegation France 2025) – Université Gustave Eiffel
Didier Brazillier – AFGC
Matthieu Briffaut – AUGC / Ecole centrale Lille
Nadget Daoud – AFGC
Benjamin Daubilly – AFGC / France Ciment
David Fernandez-Ordonez – *fib*
Yannick Fogue Djombou – AFGC YMG
Jean Laurent Burlet – Université de Nice
Jacques Martin - AFGC
Bruno Godart – AFGC
Abdelhafid Khelidj – AUGC
Lionel Linger – AFGC / Vinci
Laure Regnaud – Ecole Française du Béton
Jacques Resplendino AFGC / Pastor
Marie Reymond – *fib*

Additional information

Official Symposium Language

The official language of the Symposium is English. All presentations will be made in English and no simultaneous translations will be provided.

Opening Hours

Symposium Registration Desk

Sunday June 15	17:30 – 19:00
Monday June 16	08:00 – 18:15
Tuesday June 17	08:00 – 18:30
Wednesday June 18	08:00 – 17:30

Exhibition

Monday June 16	08:00 – 18:15
Tuesday June 17	08:00 – 18:30
Wednesday June 18	08:00 – 17:30

Speaker Ready Room

The Speakers can upload their presentations at the **Registration desk**.

Sunday June 15	17:30 – 19:00
Monday June 16	08:00 – 18:00
Tuesday June 17	08:00 – 18:00
Wednesday June 18	08:00 – 17:00

All speakers are requested to upload their presentation at least 4 hours before their session, or the day before for the early morning sessions.

Delegate Badge

Admission in the **fib** Symposium is by badge only.

Carrying the badge is mandatory for all participants. No one will be allowed admission to sessions, exhibition area, food service or social events without a badge.

Food Service

Coffee service is available in the Exhibition Hall during the Exhibition opening hours. Lunch will be served in the exhibition hall.

Certificate of Attendance

Certificate of attendance will be sent, on request, by e-mail after the Symposium.

Symposium Proceedings

All papers accepted by the Scientific Committee for oral presentation will be available online. The proceedings will be available as ePDF version on the official website of the **fib** after the Symposium.

Electrical Appliances

The electric current in France is 220 volts AC in 50 cycles and plugs and sockets may differ from those in other parts of the world, so travelers should bring adapters or transformers for their personal devices.

Internet

Complimentary Wi-Fi is provided at the venue for all delegates attending the congress.

Network : FIB2025

Password : FIB_2025

Mobile Phone Policy

The phones should be on for use of app and social media. As a courtesy to all presenters and attendees, please set your mobile phone in silent mode while attending sessions

Social Media

All participants are encouraged to join the online conversation to get the most out of to the Symposium. The official hashtag is **#fibsymposium2025**

Mobile App

This paperless conference will provide participants with a fully functional Conference App including;

- complete and up-to-date technical program
- sessions with paper abstracts
- presenters and authors name
- keynote speakers with bio and paper
- venue and city maps
- names of participants
- exhibitors, and sponsors directory
- messaging, social media and networking
- and more.

Instructions to download the App have been provided to all registered symposium participants by email:

QR code of the App (**password: FIB2025**):



<https://www.eventool.com/FIB2025>

Public Transit and Transport info

Antibes Juan-les-Pins is situated in the heart of “la Côte d’Azur” in the south of France. It is a city offering a multitude of events, a city offering enjoyment and leisure, sports activities and nature. In this multi-faceted city, the sun dances on Mediterranean waters more than 300 days of the year.

To know more: <https://www.antibesjuanlespins.com/en>

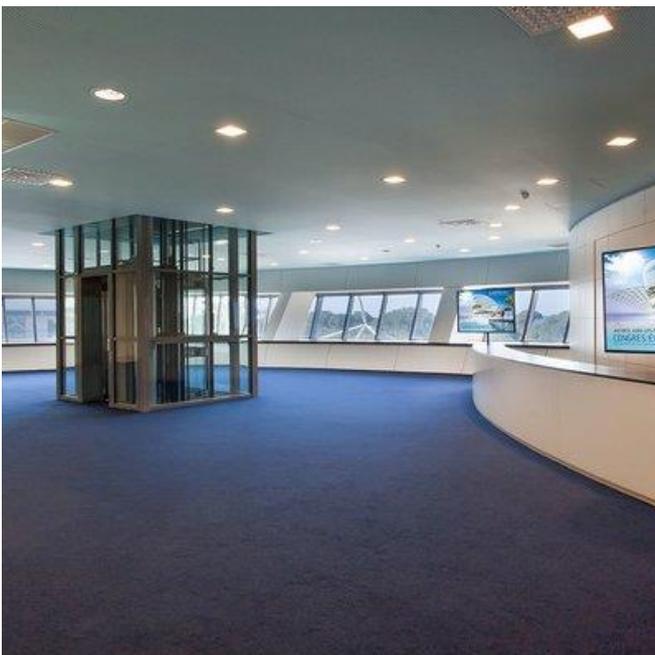
Getting to Antibes is easy, through the International Airport of Nice, or from Paris with the very high speed train (TGV) via Marseille. For more information, see: <https://www.antibesjuanlespins.com/en/pratique-information/how-to-get-there>

Note that, if you come by train, two train stations exist in Antibes. The one called Juan les Pins is the closest to the conference center, but TGVs do not stop there (only in Antibes main station). Only local trains (TER) stop in Juan-les-Pins (see timetable).

From Nice airport, the bus 82 is a way to go to Antibes Juan-les-Pins. Another way is to go to the Saint Augustin train station and then by a local train to Juan-les-Pins.

Welcome Reception

**SUNDAY JUNE 15, 19:00 – 20:30 : Palais des Congrès Antibes Juan les Pins – Méditerranée Space
(included in registration fees)**



Espace Méditerranée © Palais des Congrès Antibes-Juan Les Pins

Sponsors

GOLD



Founded by Eugène Freyssinet, the inventor of post-tensioning, Freyssinet brings together an unrivalled range of civil engineering skills.

We contribute, as a general contractor or as a subcontractor, to the construction and repair of structures on five continents through a network of 60 subsidiaries located close to its customers.

From engineering to the implementation of technical solutions on site and the manufacture of products, we support each project with the same principles of excellence, innovation, performance and sustainability

SILVER



BBR Network & AQUILA Built Health – Engineering a Sustainable Future

BBR Network, founded in 1944 in Switzerland, is a global leader in post-tensioning and stay cable technologies, with a presence in over 50 countries. Our expertise spans thousands of structures worldwide, including iconic bridges and advanced energy facilities.

AQUILA Built Health is a Swiss-based international franchise that combines advanced structural health assessments, cutting-edge NDT, and digital asset health records to enhance infrastructure sustainability, extend service life, and unlock greater value for asset owners. By integrating BBR's engineering excellence with AQUILA's innovative assessment technologies, we provide clients with unparalleled support in building and maintaining resilient infrastructure.



Bekaert's ambition is to be the leading partner for shaping the way we live and move, and to always do this in a way that is safe, smart, and sustainable. As a global market and technology leader in material science of steel wire transformation and coating technologies, Bekaert (bekaert.com) also applies its expertise beyond steel to create new solutions with innovative materials and services for markets including new mobility, low-carbon construction, and green energy. Founded in 1880, with its headquarters in Belgium, Bekaert (Euronext Brussels, BEKB) is a global company whose 21 000 employees worldwide together generated € 4.0 billion in consolidated sales in 2024.



The "French School of Concrete" is a Corporate Foundation funded by French cement manufacturers. It is governed by representatives from the construction, education, and research sectors in France. Its mission is to support and promote long-term initiatives that expand knowledge and understanding of concrete in all its forms — from material science to sustainable construction practices.



FIBRE NET stands out in the design and production of composite systems for the structural reinforcement of existing buildings and infrastructures. The Company expertise combines technical and technological know-how with an extensive production capacity, all in-house. With 22 years of experience, 25.000+ projects, 15.000.000+ sqm of surface of composite materials supplied throughout the years and 150 employees, Fibre Net systems are all united by a comonultimate goal: to provide the technical excellence of "the Made in Italy" to the customer globally.



MAPEI is today one of the world's leading manufacturers of chemical products for the construction industry. We offer sustainable, high-quality products that respect both the planet and people. We draw on this same expertise to contribute to the world's most important architectural and infrastructure projects, including housing projects and the renovation of historic buildings.



Peikko is the Global Forerunner in Slim Floor Structures, and Connection Technology for Precast and Cast-in-situ Construction. Peikko was founded in 1965 in Lahti, Finland, so this new year sets an important milestone for us. Celebrating our 60th anniversary, we want to focus on the years to come and on building tomorrow as we always have – with innovation, curiosity, and customers at the core of everything we do.

With over 1,300 companies, **VINCI Construction** provides within the VINCI Group an unparalleled range of construction-related expertise in over 100 countries.

VINCI Construction draws on a broad spectrum of expertise covering all aspects of building, civil engineering works, infrastructure, and specialized activities related to construction and public works, to optimize a **sustainable operational performance**.

EXEGY is VINCI's brand of low-carbon concrete solutions, a complete constructive solution whose purpose is the massification of decarbonized concrete usage through high-quality, sustainable and cost-effective formulations developed by VINCI Construction's concrete engineering laboratory.

In order to reach the **VINCI Group's ambitious objective of using 90% low-carbon concretes globally by 2030**, EXEGY has been developing a low-carbon ecosystem of partners—from clients and material suppliers to state institutions and research centers—in order to initiate and facilitate decarbonization strategies and action plans, and **bring about the new era of low-carbon concretes for a sustainable world**.

BRONZE



Together, let's accelerate sustainable construction.

For Cimbéton, one core mission: to help construction professionals embrace innovative practices and regulatory developments, in order to “do better by using less and making better use of concrete”:

- To meet decarbonization goals, regulations are evolving, and innovations from industry stakeholders are multiplying (new standardized low-carbon cements, use of recycled concrete aggregates, 3D printing, etc.).
- To support all actors across the concrete construction and infrastructure value chain (engineering firms, project managers, developers, contractors, local authorities, etc.) in collectively adopting both new regulations and innovative practices, Cimbéton deploys a range of decision-making tools. These tools help professionals implement eco-design practices, use more suitable concrete types, and design more innovative structures—starting from the design phase—to reduce the carbon impact of concrete structures and developments.

As an information and expertise center on cement and concrete, Cimbéton develops tools, creates educational content, publishes “best practice” guides, and provides regulatory explanations about concrete for professionals:

- **PERCEVAL** – An economic and environmental assessment software dedicated to roads. It enables full life-cycle comparisons (economic and environmental) of road infrastructures.
- **GEGO (Environmental Guide for Structural Works)** – A free design assistance tool that helps identify EPDs (Environmental Product Declarations) corresponding to components or construction methods using cast-in-place or precast concrete.
- **RE2020 Toolbox** – Aimed at all stakeholders involved in construction, this tool highlights ways to improve the carbon footprint of concrete structural elements and provides a detailed presentation of the three key levers for decarbonizing concrete construction.
- **Replays and webinars** – To share solutions for decarbonizing concrete construction.
- **Nearly 100 technical guides** – Freely available on infociments.fr
- **Two specialized journals** – *Construction Moderne* and *Routes*

Contact on *fib* Symposium 2025 :



Vicat is an international group of companies and a French family-run business, one that was founded 165 years ago, after Louis Vicat invented modern cement in 1817. Staunchly independent, we build for the long term. We capitalize on the confidence placed in us by our partners, whether customers, suppliers, project owners, local authorities and scientists.

Innovation has been in the Group's DNA for 200 years. It is the spearhead of our engagement to build and live together, and to protect the planet. We focus on fields of innovation for building the cities and infrastructures of tomorrow, we set up scientific partnerships, and we work with the key players in each sector.



The *fib*, International Federation for Structural Concrete, is a not-for-profit association formed by 42 national member groups and approximately 2'500 corporate and individual members in more than 100 countries. The *fib*'s mission is 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.

fib MODEL CODE (2020)



The *fib* Model Code (2020) presents new consensus guidance on developments relating to concrete structures and structural materials, as well as providing a basis for future codes for concrete structure. It addresses significant advances made on a wide range of issues including those relating to structural design and analysis methods, seismic design and assessment procedures, durability, structural monitoring, service life design, structural assessment through-life and making interventions to adapt existing structures or enhance their performance to accommodate revised requirements or extend their useful life.

EVENTS

Events are a cornerstone of the *fib* activities. Each year, the *fib* hosts a major event: either a four-day congress or a three-day symposium. These conferences are a great opportunity to meet international engineers and researchers, share knowledge, learn, and get inspired.

In even-numbered years, the *fib* PhD Symposium offers doctoral students an opportunity to present their research, receive feedback from an international audience, and build global connections.

In odd-numbered years, the *fib* Conceptual Design Symposium brings together young engineers and experienced professionals to exchange ideas and explore the fundamentals of conceptual design.

The *fib* ICCS focuses on sustainability, while the newly launched *fib*CACRCS addresses the Capacity Assessment of Corroded Reinforced Concrete Structures.



AWARDS



Entries are open for the *fib* **Award for Outstanding Concrete Structures 2026!** This award is presented to give international recognition for concrete structures which demonstrate the versatility of concrete as a structural medium. **Deadline: 27 October 2025.**

The Achievement Award for Young Engineers is awarded once every two years in two categories: Research and Design & Construction. Eligible participants are engineers and researchers under 40 years old.



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TO MAKE THEM **SAFER AND MORE DURABLE**

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Bekaert


construction.bekaert.com



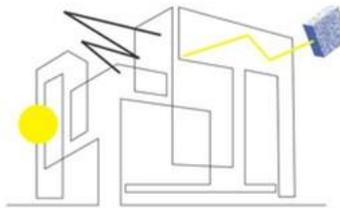
A "school without walls"

A wide range of resources and opportunities for **students, teachers, and professionals**

Sharing concrete knowledge to help build the world of tomorrow



www.ecole-beton.fr



National student and high-school competitions



Training programs



Conferences and Site visits



Educational Resources

FIBRE NET GROUP

The structural reinforcement specialists

Products and solutions for infrastructure

www.fibre.net.it



FIBER REINFORCED CONCRETE
LES BÉTONS RENFORCÉS DE FIBRES

Fibres play an important role in concrete sustainability. By reducing the amount of steel reinforcements in several applications, the carbon footprint can be reduced significantly.

Many other technical advantages can be achieved with Fiber Reinforced Concrete.

Les fibres jouent un rôle important dans la durabilité du béton. En réduisant la quantité d'armatures en acier dans plusieurs applications, l'empreinte carbone peut être réduite de manière significative.

De nombreux autres avantages techniques peuvent être obtenus avec le béton renforcé de fibres.

Widen your view with ideal combinations

Long spans, slim floors, slender columns, wide open spaces. When you can turn dreams into reality, why settle for less?

By combining custom-made DELTABEAM® Composite Beams and ATLANT® Composite Columns with BESISTA® Tension and Compression Rods, designing and building ambitious and safe high-quality structures becomes the new standard.

peikko.com/idealcombinations





EXEGY, VINCI'S NEW STANDARD

VINCI has set targets to reduce its indirect CO₂ emissions by 20% and use 90% low-carbon concretes on its sites by 2030

To achieve these goals, the company has accelerated the deployment of its **EXEGY® solutions** across an increasing number of projects, from foundations to structures in both buildings and infrastructure, and with declinations as on-site poured concretes, prefabricated works and extruded concretes.

These solutions enable **significant reductions in CO₂ emissions**, while in most cases **enhancing technical performance** and achieving a balance between **cost efficiency and environmental impact**.



OUR WEBSITE AND PROJECTS
contact@exegy-solutions.com

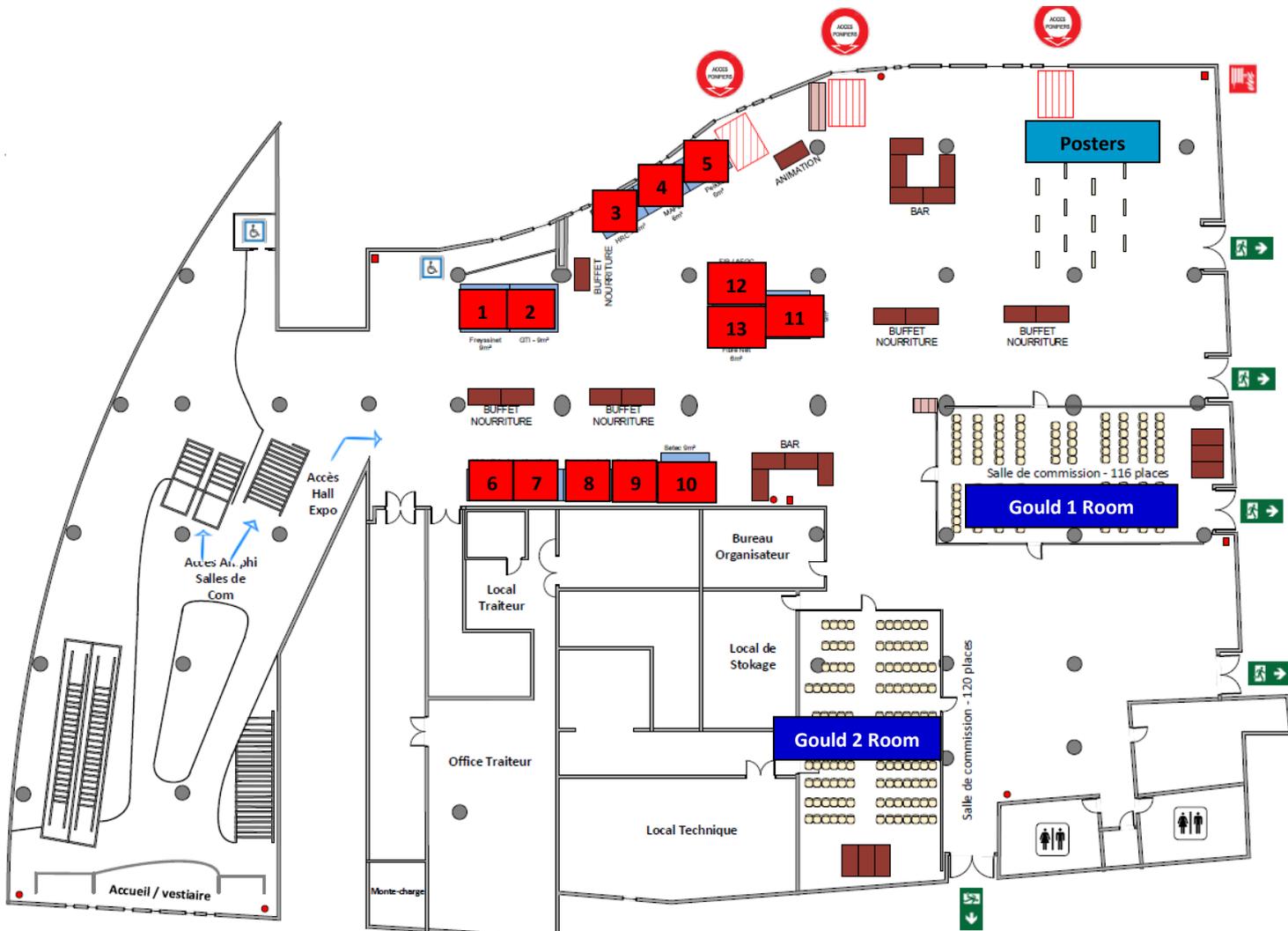
CONTACT US
exegy-solutions.com



Exhibitors



Espace Gould © Palais des Congrès Antibes-Juan Les Pins



1	FREYSSINET	8	CERVENKA CONSULTING (ATENA SOFTWARE)
2	GTI	9	BEKAERT
3	HRC EUROPE - HRC USA	10	SETEC
4	MAPEI	11	DENKA CO LTD
5	PEIKKO	12	FIB
6	BBR AQUILA	13	FIBRE NET
7	VINCI CONSTRUCTION		

Keynote Lectures

Professor Kefei Li of Tsinghua University

His presentation will focus on "Sulfate attack on structural concretes: from microscopic mechanisms to engineering modeling".

Dr. Kefei Li works in Civil Engineering Department of Tsinghua University as tenured full professor, and principal investigator (PI) of the research group of building materials. His research fields include the physical and mechanics of cement-based materials, the durability of concrete materials and structures and the life-cycle engineering of concrete structures. He has authored more than 100 peer-reviewed journal papers and serves in the editorial boards of Cement and Concrete Research, and Materials and Structures. He is presently a senior member of fib – International Federation for Structural Concrete – Fédération Internationale du Béton (expert), RILEM Association (fellow in 2023), and IABSE - International Association for Bridge and Structural Engineering (deputy delegate).



Dr Véronique Bouteiller (University Gustave Eiffel) and Dr Patrick Rougeau (CERIB) will give a common keynote.

Their presentation is entitled: "Performance-based approach, durability of low carbon concrete and corrosion: contributions of the French national project PERFDUB and the DECADES and DECISION scientific groups"

Dr Véronique Bouteiller is a senior researcher at Gustave Eiffel University in France. She has more than 20 years of experience in the following scientific fields: reinforcement corrosion in concrete, laboratory and field corrosion diagnostics, and implementation of electrochemical treatments for the repair of reinforced concrete infrastructures. She has been the coordinator of the French DeCoF-Ré project of the Ile de Ré bridge and is leading the stainless steel project and the corrosion health monitoring contract. She has participated in several research projects such as ANR MODEVIE and the French national PerfDuB project.



Dr Patrick Rougeau has 30 years of experience in the domain of R&D concerning construction materials with hydraulic binders, new types of concrete (ultra-high performance concrete, low carbon footprint concrete...) and their durability (performance-based approach and modelling). Responsible for the material and circular economy unit of CERIB (R&D centre for the precast industry). Coordinator of the French standardization committee "Low carbon footprint concrete" and European standardization committee CEN TC 229/WG4 "Products which do not warrant a specific standard and could be referred to in specific standards".



V.N. Heggade will present the following keynote "Design and Construction of Bridges in India: lessons for practice to safe design"

V.N. Heggade, the former Chief Executive Officer (CEO) of STUP (India) & former Executive Director of Gammon (India) is presently the founder and CEO of 'DECon Complete Solutions'. He has varied experience of 4 decades in Construction sector in the areas of Design, Construction, Site, Project and Contract Managements of Highways, Bridges, Energy, Environmental, Marine and Hydraulic structures. He is a recipient of 17 National recognitions in addition to 2 International recognitions, IABSE Prize-2002 and fellowship from fib. He has more than 210 publications and is presently serving as a chief editor of ING-IABSE journal 'Bridge & Structural Engineer' and is on editorial board of 'Structural Concrete Journal' of fib.



Dr Elisabeth Marie-Victoire (LRMH) will present a keynote on « The challenges of diagnosing and restoring historic concrete»

Elisabeth Marie-Victoire achieved materials sciences engineer and materials chemistry PhD degrees from Orsay and Jussieu French Universities. After 3 years working for CPP as a research engineer, she joined in 1997 the Laboratory of Research on Historical Monuments (LRMH), from the Architecture and Heritage department of the French Ministry of Culture. She first integrated the metal department, and she created in 2004 the concrete department that she is heading for 20 years. Her fields of expertise are identification, diagnosis, conservation and restoration of historic concretes. She is providing field diagnosis and conservation advice for French-listed concrete buildings, and she is developing with her team research on three main topics: ancient cement identification, corrosion and moisture diagnosis, and conservation treatments. She teaches art historians, conservators, and material science masters, but also architects, in France and at an international level (China, ERASMUS...).



Professore Beatrice Belletti (Department of Engineering and Architecture, University of Parma) will give a keynote on “Structural capacity assessment of PC members subjected to different corrosion-induced damage scenarios”

Professore Belletti teaches Dynamic Analysis and Seismic Design of Structures, Fire Safety Engineering and Structural Fire Resistance and Structural Engineering. She has supervised about 100 MSc theses BSc theses and PhD students in Civil Engineering at the University of Parma. She is member of CEN/TC250/WG6 Project Team WG6.T2: Robustness Rules in Material Related Eurocode Parts (from 2018 to 2021), member of Commission CEN/TC250/WG6 Robustness (from 2018 to present), chairperson of National Standard Body Group on Robustness (UNI/CT 021/GL 06 "Robustezza"), member of the writing panel of JRC S&P Report "Guidance on the Design for Structural Robustness", member of the writing group of CNR-DT214/2018: Guidelines for the robustness assessment of structures (from 2016 to present), member of UNI/CT 021 "Ingegneria strutturale" (Structural Engineering), member of fib Commission TG3.2 fib: Existing concrete structures (from 2012 to present), convenor of fib WP8.8.2: ULS verification under chloride- and carbonation-induced deterioration (since 2024), member of writing panel of CNR-DT216 on safety assessment of corroded structures; member of CEN/TC 250/SC 10/WG 4 "Assessment and retrofitting of existing structures" (from 2024). She is co-chair of the international workshop CACRCS DAYS: Capacity assessment corroded reinforced concrete structures.



Stephan Schumacher and Dr Thierry Lassabatere from ANDRA will give a keynote lecture on "Concrete for Cigéo: How to design the civil engineering for long-term geological disposal of radioactive waste?"

Stephan Schumacher holds an engineering degree from the Nancy School of Geology. After five years spent developing scientific software, he joined Andra in 1996 to work on performance and safety assessment, then on the long-term behavior of radioactive waste (vitrified waste, graphite, etc.), before heading the department in charge of studying radioactive waste and repository materials (clay materials, cementitious materials, metallic materials, ceramics). He became Deputy Director of R&D in 2018, where he was involved in the preparation and launch of the EURAD European Joint Programme on Radioactive Waste Management, before becoming Director in 2022. With over a hundred employees, the division draws on exceptional research resources, such as the Meuse/Haute-Marne underground research laboratory.



After a degree of civil engineering from the Ecole Nationale des Ponts de Chaussées (ENPC), in 1991, and a PhD doctorate in "mechanics and materials" carried out in the Laboratoire Central des Ponts et Chaussées (LCPC) in 1994, **Thierry Lassabatère** worked as a research engineer for the CEA Saclay, from 1995 to 1999, then engineer-researcher at EDF R&D from 1999 to 2009. Along all these experiences, he mainly worked on the long term phenomenological behaviour of a geological repository, especially under its thermo-hydro-mechanical (THM) point of view, before becoming in charge of overall engineering design studies, first for EDF within its Fuel Cycle Division (DCN), and finally with Andra, as Deputy Technical Director (2016-2020) and then Operational Director in charge of the construction of Cigéo Phase 1.



Detailed technical program

MONDAY 16 JUNE 2025

8:00-9:00	Registration desk & Coffee (Méditerranée Space)						
Amphitheater Antipolis							
9:00-11:00	Opening ceremony <i>Welcome from conference chairs, official address from Antibes mayor, fib president address, fib fellows 2025 presentation, fib Medal Recipients 2025, fib Honorary Member 2025</i> AAAYE ceremony including a tribute to Jean Muller by Claude Le Quééré, AFGC President						
11:00-11:30	Coffee break & Exhibition (Gould Space)						
11:30-12:30	Keynotes – Session Chair Iria Doniak, fib President						
11:30-12:00	Keynote 1 - VN Heggade: Design and Construction of Bridges in India: lessons for practice to safe design						
12:00-12:30	Keynote 2 - Kefei Li: Sulfate attack on structural concretes: from microscopic mechanisms to engineering modeling						
12:30-14:00	Lunch (Gould Space)						
14:00-15:15	Parallel Session 1						
	Amphitheater Antipolis	Ella Fitzgerald Room	Miles Davis Room	Louis Armonstrong Room	Gould 1 Room	Sydney Bechet Room	Gould 2 Room
	SPECIAL SESSION 26 (1/3) Climate-friendly Transition of the Concrete Construction Industry: Challenges and Possibilities Chairs Norbert Randl & Giuliana Somma	SPECIAL SESSION 5 Probabilistic Reliability Assessment of Existing Concrete Structures in Engineering Practice Chair Miroslav Sykora	SPECIAL SESSION 4 Pre-fabricated shallow floors Chair Wit Derkowski	SPECIAL SESSION 7 Material-appropriate construction with carbon-reinforced concrete Chairs Steffen Marx	Parallel Session 1a Numerical modelling Chair Walter Kaufmann	Parallel Session 1b Monitoring (1/2) Chair Toshiaki Mizobuchi	Parallel Session 1c Prestressing Chair Tor Ole Olsen
14:00-14:15	Rice Husk Ash: is it a good substitute for cement in concrete? Giuliana Somma, E Runcio	Structural Assessment of Prestressed Bridge Half-Joint Zones Using Global Safety Format and Continuous Monitoring Dario La Mazza, Gianni Croce, Paola Darò, Lavinia Coraci, Giuseppe Mancini	Prefabricated shallow floors in fire, present and future Jan Bujnak, Simo Peltonen	A novel technique using EBR Side Extended (EBRSE) to delay FRP laminate debonding in strengthened concrete structures Mehdi Aghabagloo, Laura Carreras, Cristina Barris, Alba Codina, Marta Baena	Training and Integrating a Machine-Learning-Based Shell Element in Reinforced Concrete Simulations Vera Balmer, Michael Anton Kraus, Stelian Coros, Walter Kaufmann	Data-based bridge maintenance Transforming bridge inspections to performance monitoring Hitoshi Ito, Toshiaki Mizobuchi	Bond behavior of prestressing strands with large strand diameters in pretensioned concrete Dominik Wrona, Annkathrin Sinning, Martin Claßen
14:15-14:30	New cements: a look at the future of the construction sector for an ecological transition Eduardo Runcio, Giuliana Somma	Comparison of approaches for determining global safety factors in NLNA of RC members failing in shear Diego Gino	Shear resistance of prestressed hollow core slabs in shallow floors Matti Pajari	Automated Robotic Deposition of Material-Appropriate Reinforcement Structures Inspired by Peltate Leaf Fibers Yue Zheng Wen, Annabell Rjosk, Danny Friese, Florian Schmidt, Johannes Mersch, Christoph Neinhuis, Thea Lautenschläger, Chokri Cherif	The effect of loading and support condition on the shear resistance of reinforced concrete beams with low shear reinforcement ratio Yasar Hanifi Gedik, Nima Kian, Nguyen Duc Tung	Rupture of external prestressing tendons injected with cement grout. New monitoring method from the measure of their deformations Nicolas Bessoule, Christophe Carde, Bernard Tonnoir, Michel Virlogeux, Ivica Zivanovic	Experimental evaluation of the prestressing force transmission length in the beam constructed from lightweight aggregate concrete, pretensioned with steel prestressing strand of 15.7 mm diameter Łukasz Ślaga, Andrzej Seruga
14:30-14:45	Finding carbon and cost efficiencies in the design of RC slabs made from high early strength concrete Daniel Snodgrass, David Ruggiero	Investigating the calibration potential of load partial factors in the fib Model Code Ramon Hingorani, Jochen Köhler, Miroslav Sykora	Behaviour of shallow floors in fire situation Mikko Malaska, Salla-Mari West	Crack analysis in an in-situ micro-tomography tension test of a carbon-reinforced specimen Frank Liebold, Tobias Neef, Bindusara Nagathihalli Lokesh, Tobias Fritsch, Giovanni Bruno, Viktor Mechtcherine, Hans-Gerd Maas	Numerical modelling of out-of-plane buckling of reinforced concrete walls under monotonic loading Nathan Deleschaux, David Ruggiero	Case study for massive monitoring data analysis on concrete port infrastructures Pierre Leflour, Jorge Semiao, Patrick Lézin, Mahdi KHADRA, François-Baptiste Cartiaux	Experimental evaluation of the steel prestressing strand development length in the beam constructed from lightweight aggregate concrete Łukasz Ślaga, Andrzej Seruga, Marcin Midro
14:45-15:00	Sustainable reinforced concrete slab design: Integrating 3D topology optimization and environmental impact reduction Ahmad Majdoub, David Ruggiero	Understanding existing barriers to consistent decision making on reuse Peter Tanner, Carlos Lara, David Sanz	Steel-concrete shear connection in composite structures: a key structural component for shallow floors Jean-François Demonceau, Oliver Beckmann, Simo Peltonen	Modeling dowel action in carbon reinforced concrete with CFRP grids Eduarda Dilkin, Sven Bosbach, Martin Classen	Unified Finite Element Limit Analysis for reinforced concrete Peter Noe Poulsen, John Forbes Olesen	New concept for sensor-based bridge inspections Alois Vorwagner, Vazul Boros, Maciej Kwapisz, Lienhart Werner, Dominik Prammer	Internal forces in the anchorage zone reinforcement – analytical models vs measurements Hugo Raymond, Sylwia Schoenowitz-Zuradzka, Piotr Gwozdziwicz
15:00-15:15	Sustainability-centred decision-making for interventions on existing concrete bridges Brian Brongers, Agnieszka Bigaj-van Vliet	Probabilistic Assessment of Cooling Towers Under Carbonation-Induced Corrosion Using a Categorical Boosting Machine Learning Model Lenganji Simwanda, Miroslav Sykora	Extending the Lifespan of Building Structures and Reducing its Environmental Impact Ronald Klein-Holte	Influence of transversal rovings' spacing on the bond behaviour of chemically-pretressed carbon-textile reinforced concrete plates Mohammed Dhahir	Analysis and simulation with a CFD tool of self-compacting concrete with crushed wind turbine blade Manuel Hernandez-Revenga, Victor Revilla-Cuesta, Javier Manso-Morato, Flora Faleschini, José T. San-José, Vanesa Ortega-López	Evaluation of damage in concrete bridges through non-modal dynamic parameters Abdou Dia, Tuyen Viet Nguyen, Nisrine Makhoul	Finite element modelling of post-tensioned beams with grout injection defects Marialorenza Vescovi, Daniele Ferretti, Beatrice Belletti

15:15-15:45	Coffee break & Exhibition (Gould Space)						
15:45-17:00	Parallel Session 2						
	Amphitheater Antipolis	Ella Fitzgerald Room	Miles Davis Room	Louis Armonstrong Room	Gould 1 Room	Sydney Bechet Room	Gould 2 Room
	SPECIAL SESSION 26 (2/3) Climate-friendly Transition of the Concrete Construction Industry: Challenges and Possibilities Chairs Norbert Randl & Giuliana Somma	SPECIAL SESSION 23 Performance-based approach to the durability of concrete structures: Main results of the French PerfDub project Chairs Gilles Escadeillas, François Cussigh & Bruno Godart	SPECIAL SESSION 8 (1/2) Material components and manufacturing techniques for non-metallic reinforced concrete Chair Rostislav Chudoba	SPECIAL SESSION 11 Robustness assessment of structures and infrastructures Chairs Beatrice Belletti, Simone Ravasini, Robby Caspeepe & Fulvio Parisi	Session Young Members Group (1/2)	Parallel Session 2a Probabilistic analysis - Chair Avraham Dancygier	Parallel Session 2b GFRP Chair Giovanni Plizzari
15:45-16:00	Durability aspects in the evaluation of carbon footprint in low-rise and high-rise buildings Alessandro P. Fantilli, Zahra Rajabi, Fabrizio Demaria, Fulvio Canonico	Context and introduction of the PERFDUB project, François Cussigh, Gilles Escadeillas, Didier Brazillier	Biaxial tensile tests on carbon-reinforced concrete Jonathan Schmidt, Maximilian Weiß, Iurie Curosu, Birgit Beckmann, Steffen Marx, Manfred Curbach	Reliability evaluation of the robustness of reinforced concrete frames considering different failure scenarios Elena Miceli, Diego Gino, Paolo Castaldo		Probabilistic analysis of corrosion-induced cover delamination in reinforced concrete structures Andreas Dekeyser, Els Verstryngne, Roman Wandwender, Wouter Botte, Robby Caspeepe	Detailed evaluation of GFRP mesh mechanical properties for better structural integrity Elhem Ghorbel, Gláucia Dalfré, Amanda Mazzú
16:00-16:15	Sustainable recycling of non-hazardous construction and demolition waste in self-compacting concrete for construction Haruna Ibrahim, Elhem Ghorbel, Zahid Alfi Mohammad, Obaidurrahman SAFI, George Wardeh	Evaluation of concrete performance: from improving existing durability tests to the definition of new protocols Emmanuel Rozière, Philippe Turcry, Franck Cassagnabere, Philippe Fonollosa	Combined impregnation and straightening of woven basalt textile reinforcement for cement composites: flexural behaviour Gilles Vandereecken, Tine Tysmans	Nonlinear Response and Structural Robustness of RC Framed Buildings to Differential Soil Settlements Federica Rauseo, Fulvio Parisi		A Modified Model to Quantify Cracking Localization in Beams Yuri Karinski, Avraham Dancygier	Mechanical and environmental behaviour of concrete beams with hybrid GFRP and steel reinforcement José J. Ortega, Lucia Garijo, Adriano Reggia, Giovanni Plizzari
16:15-16:30	A framework for the preliminary design of structures and structural interventions taking into account the environmental performance Edoardo Rossi, Giorgio Mattarollo, Tamás Mészöly, Norbert Randl	Analysis of data obtained on existing structures during the PerfDub project Bruno Godart, Michael Dierkens	A Novel Manufacturing Process for Precise Honeycomb Shaping of Extruded Carbon-Reinforced Concrete Elements Christian Bertram, Jakob Beckers, Olivier Reinertz, Cynthia Morales Cruz, Thomas Matschei, Katharina Schmitz	Numerical study on settlement-induced damage to RC frames: the effect of foundations and ground stiffness Belletti Beatrice, Elena Michelini, Slawomir Dudziak, Mauro Pappalardo, Simone Ravasini		Examining Bridge Pile Damage Probability in Liquefiable and Non-liquefiable Ground Golshid Shid, Ali Noorzad	Investigations on the Bending Behavior of High Performance Aerogel Concrete with GFRP Reinforcement Torsten Welsch, Martina Schnellenbach-Held
16:30-16:45	Comparative study on tensile behavior of textile reinforced concrete with short steel and basalt fibres Giorgio Mattarollo, Daniel Gergov, Norbert Randl, Tamás Mészöly, Edoardo Rossi	PerfDub project - Data Base on concretes and its exploitation Jonathan Mai-Nhu, François Cussigh, Philippe Turcry, Emmanuel Roziere, Michael Dierkens, Gabriel Pham, François Toutlemonde, Patrick Rougeau	Material-Minimised Carbon Reinforced Concrete for Multi-dimensional Tessellations in Building Applications Linda Debora Cortes Satizabal, Sascha Stüttgen, Meike Weiß, Kira Heins, Alice C. Niemeyer, Daniel Robertz, Thomas Gries	The influence of nonlinear modeling on robustness quantification: a case study of bridges Matteo Colombo, Paolo Martinelli, Pedro Jose Verbel Arroyo		Dynamic Simulation of Concrete Structures Using an Extended RBSM Considering Large Rotation and Fragment Collision Kimura Kanto, Yamamoto Yoshihito	Mechanical and microstructural characterization of straight and bent thermoplastic GFRP reinforcing bars Maha Fodda, Sylvain Chataigner, Ludwig Battais, Benjamin Terrade, Marc Quiertant, Arnaud Rolland, Karim Benzarti
16:45-17:00	Life Cycle Assessment and Structural Design of Low Carbon Concrete Beams Containing High Percentages of Recycled Materials Buddhi Daraniyagala Arachchilage, Tsz Yeung Tsang, Liam Butler	PerfDub project – Definition of performance thresholds according to exposure classes and methodology Myriam Carcasses	Flexibility and Precision: Manufacturing concept for folded tessellated lightweight carbon-reinforced concrete slabs Carlos G Gomes, Christian Bertram, Olivier Reinertz, Katharina Schmitz, Rostislav Chudoba	Robustness Assessment of an Existing RC Frame Building Subjected to Differential Settlements using NLFEA Elena Michelini, Slawomir Dudziak, Beatrice Belletti, Simone Ravasini			Investigation of the bond behaviour of non-metallic reinforcing bars in low-clinker concretes Paul Heber, Oliver Sikorski, Amer Suliman, Paul-Martin Großkopff, Birgit Beckmann, Steffen Marx

17:00-18:15								
Parallel Session 3								
	Amphitheater Antipolis	Ella Fitzgerald Room	Miles Davis Room	Louis Armonstrong Room	Gould 1 Room	Sydney Bechet Room	Gould 2 Room	
	SPECIAL SESSION 26 (3/3) Climate-friendly Transition of the Concrete Construction Industry: Challenges and Possibilities Chairs Norbert Randl & Giuliana Somma	SPECIAL SESSION 12 On-going durability and corrosion studies on the specimens from the PN PERFDuB project Chair Véronique Bouteiller	SPECIAL SESSION 8 (2/2) Material components and manufacturing techniques for non-metallic reinforced concrete Chair Mohammed Dahir	SPECIAL SESSION 13 Advanced monitoring techniques for concrete structures Chairs Numa Bertola & Alfred Strauss	Session Young Members Group (2/2)	Parallel Session 3a Structural design (1/4) Chair Hugo Corres	Parallel Session 3b Innovative materials Chair Gyorgy Balazs	
17:00-17:15	Experimental investigations to identify challenges in design of prefabricated concrete structures for disassembly and reuse Ramon Hingorani, Tore Myrland Jensen, Petra R��ther, Vegard Alme Ulstein	On-going durability and corrosion studies on the metric specimens cast as part of the PN PerFDuB and exposed to natural ageing sites Fran��ois Cussigh, V��ronique Bouteiller, Jonathan Mai-Nhu, Philippe Turcry, Elisabeth Marie-Victoire	Tensile tests of recycled carbon fibers for carbon-reinforced concrete applications Enrico Baumg��rtel, Md Sazzadur Rahman, Marcel Zeisberg, Jens Bachmann, Philipp Karsten Niebel, Birgit Beckmann, Steffen Marx	Distributed Humidity Sensing for concrete structures Johannes Wimmer, Stefan K��ttenbaum, Thomas Braml		Holistic Sustainability Analysis of Wrapped Textile-Reinforced Concrete Using the Example of a Pump Sump Fabian Kufner, Yannick G��ttler, Petra Rucker-Gramm, Michael Horstmann	Investigation of electric curing effect of potassium activated fly ash and slag based geopolymer mortars Mazem Yilmaz, M��cteba Uysal	
17:15-17:30	A framework for quantifying the benefits of robot-assisted deconstruction and reuse of structural concrete components Ramon Hingorani, Katarzyna Ostapska, Klodian Gradeci, Petra R��ther	Durability performance of several concrete compositions including low carbon footprint concretes Jonathan Mai-Nhu, Philippe Turcry, V��ronique Bouteiller, Elisabeth Marie-Victoire, Pauline Barthelemy, Myriam Bouichou, Fran��ois Cussigh	Low carbon footprint textiles for concrete reinforcement Alva Peled, Adan Wattad, Rotem Haik	Concrete bridge monitoring through spatially distributed fibre optic sensing Numa Bertola, Francesco Fabbricatore		Experimental study on anchorage performance of a new fastening system for wood-frame fa��ade connected to a concrete structure Alice Le Berder, Hugues Somja, Tuan-Anh Nguyen, Van Han Tran, Cl��mence Nicollet	Limits and impacts of non-hazardous building demolition waste on mortar microstructure and mechanical properties Annelise Cousture, Haruna Ibrahim, Obaidurrahman Safi, Elhem Ghorbel	
17:30-17:45	A Performance-based Framework for Selecting Sustainable Concrete Solutions in Chloride-Exposed Environments Fabrizio Moro, Sylvia Kessler	3-year exposition of PerFDuB specimens on a tidal zone: comparison between model predictions and experimental results Philippe Turcry, Fran��ois Cussigh, V��ronique Bouteiller, Elisabeth Marie-Victoire, Myriam Bouichou, Jean Ducasse-Lapeyrusse, Jonathan Mai-Nhu, Sandrine Chanut, Amandine Bonnet, Victor Da-Silva	Interphases with layered organic/inorganic structures for increased toughness of carbon fiber reinforced concrete composites Toni Utech, Tobias Neef, Lissy Flechsig, Viktor Mechtcherine, Christina Scheffler,	Deep learning model for automated damage detection of con-crete bridges Ali Siddique, Vittorio Prodomo, Alfredo Valerij Laino, Antonio Bilotta		Crack Development in Looped Wire Rope Connections Torkil Veyhe, S��ren G. Hansen, Henrik B. J��rgensen	Evaluating model errors using EC2 to design alkali-activated reinforced concrete beams Daniele Ferretti, Erica Lenticchia, Marialorenza Vescovi	
17:45-18:00	Carbonation Resistance of Low-Carbon Concrete Incorporating Limestone Filler and Ultrafine Cementitious Materials Mouna Boumaaza, Thomas Holder, Fran��ois Cussigh, Lionel Linger	3-years results on the corrosion of PerFDuB specimens exposed to chlorides on natural ageing site Elisabeth Marie-Victoire, Myriam Bouichou, Jean Ducasse-Lapeyrusse, V��ronique Bouteiller, Amandine Bonnet, Victor Da-Silva, Philippe Turcry, Jonathan Mai-Nhu, Pauline Barthelemy, Fran��ois Cussigh, Sandrine Chanut	Electrochemical recovery of carbon fibres by acetic acid under mild conditions Stefan R��her, Julius Scheel, Alexandra Apel, Marco Liebscher, Inez Weidinger	Analyses of a structural health monitoring system on bridges through AI approaches Antonio Bilotta, Ivan Di Cristinzi, Andrea Pollastro, Maria Rosaria Pecce		Development of Reinforcement Structure in RC Segment Joints for Shield Tunnels under High Axial Force Conditions Akinori Sato, Takahisa Fukushima, Yuma Okuyama, Nishiyama Yoshiki, Kaoru Matsuoka, Ryouichi Shimizu, Kazuhiro Kobayashi	Carbonated water and MgO for improved performance of 3D concrete printing Pathmanathan Rajeev, Kirushnappillai Kopitha, Jay Sanjayan	
18:00-18:15	Design and construction of FRC tunnel precast segment with fibre enabled carbon footprint reduction Benoit De Rivaz	3-year results on the corrosion of PerFDuB specimens exposed to carbonation on natural ageing sites V��ronique Bouteiller, Amandine Bonnet, Victor Da-Silva, Elisabeth Marie-Victoire, Myriam Bouichou, Jean Ducasse-Lapeyrusse, Philippe Turcry, Jonathan Mai-Nhu, Fran��ois Cussigh, Sandrine Chanut	Impact of clay mineralogy on the rheological behavior of carbon reinforced concrete with sustainable binders Silvia Rei��sig, Michael Wenzel, Selina Vaculik, Tobias Neef, Cynthia Morales-Cruz, Antonia Etscher, Thomas Matschei, Viktor Mechtcherine	Sustainable and Resilient Infrastructure Vulnerabilities Considering Climate Change Nisrine Makhoul		Form-Finding Techniques for a Shell Reading Pavilion Carolina J. T. P. Regly, Nicolas J. Vianna, Samira F. Mistro, Vanessa O.V. Zaccarias, Felipe C. Melachos, Thomaz Buttignol (video)	Future reinforcement for concrete Balazs Gyorgy	
18:15-20:00	Presentation of the proposals of the YMG (amphitheater Antipolis) then cocktail for the Young Members Group (M��diterran��e Space)							

TUESDAY 17 JUNE 2025

8:00-8:30	Registration desk & Coffee (Méditerranée Space)					
Amphitheater Antipolis						
8:30-9:30	Keynotes - Chair Carmen Andrade					
8:30-9:00	Keynote 3 - Patrick Rougeau & Véronique Bouteiller: Performance-based approach, durability of low carbon concrete and corrosion: contributions of the French national project PERFDUB and the DECADES and DECISION scientific groups					
9:00-9:30	Keynote 4 - Stephan Schumacher & Thierry Lassabatère: Concrete for Cigéo: How to design the civil engineering for long-term geological disposal of radioactive waste?					
9:30-10:00	Coffee break & Exhibition (Gould Space)					
10:00-11:15	Parallel Session 4					
	Amphitheater Antipolis	Ella Fitzgerald Room	Miles Davis Room	Louis Armonstrong Room	Gould 1 Room	Sydney Bechet Room
	SPECIAL SESSION 6 (1/2) Physical based modelling of assessment of existing concrete infrastructure Chairs Yuguang Yang & Mihailov Boyan	SPECIAL SESSION 16 (1/2) Prefabricated Concrete Modular Buildings Chairs Eduardo Júlio & André Furtado	SPECIAL SESSION 10 (1/2) Retrofitting and strengthening of existing structures using non-metallic reinforced concrete Chair Alexander Schumann	SPECIAL SESSION 19 (1/2) Challenges and novel insights into the time-dependent behaviour of concrete Chair Roman Wan-Wendner	Parallel Session 4a Low carbon concretes Chair Laury Barnes	Parallel Session 4b Construction methods and management (1/2) Chair Johann Kolleger
10:00-10:15	Experimental study on the shear capacity of reinforced concrete slabs with skewness Jiandong Lu, Eva Lantsoght, Yuguang Yang, Max Hendriks	Prefabricated Concrete Modular Buildings: a renewed idea to cope with current housing challenges André Furtado, Eduardo Júlio	Strengthening of Reinforced Concrete Columns Using Recycled Polyethylene Terephthalate Fibers: A Preliminary Numerical Study Korhan Deniz Dalgic, Uveys Gozun, Birkhan Simsek, Medine Ispir, Alper Ilki	Creep of concrete structures: what have we learned since Freyssinet and the Veurdre bridge and what do we need to improve in the future? Jean Michel Torrenti	Development of C25 Low Carbon Concrete: Mechanical and Durability Behaviors Suliman Khan, Safat Al-Deen, Chi King Lee	Cyclic testing of precast column-to-foundation joints equipped with a novel ductile mechanical connection system Bruno Dal Lago, Enes Krasniqi, Marko Bartolac, Milot Muhaxheri, Enrico Anselmo Papa, Paola Costa
10:15-10:30	Shear Assessment of Precast composite girders using FprEN 1992-1 based shear expressions Mohammed Ibrahim, Marco Roosen, Max Hendriks, Yuguang Yang	Lean-clinker mortars with recycled cement towards the production of low-carbon concrete for modular construction Martim Nabais, José Alexandre Bogas, Ricardo Carmo, Hugo Costa, Ângela Oliveira	Crack Formation Behavior of Carbon-Reinforced Concrete for State II Sealing Layers Fabian Kufner, Michael Horstmann, Petra Rucker-Gramm, Jörg Reymendt, Jens Heckenbach, Rolf Scharmann	Analysis of drying shrinkage and creep using a re-imbibition phase of concrete Robin Cartier, Hugo Cagnon, Thierry Vidal, Jerome Verdier	Low carbon sprayed concrete based on high filler content Yvan Thiebaut, Massimo Stefanoni, Matthieu Jeusset, Paul-Alexandre Franco, Davide Michelis, Justin Denizeaux, Lionel Linger, Carlo Pistoiesi, Enrico Dal Negro	LT Bridge – Addressing Modern Demands in Bridge Engineering Franz Untermaier, Johann Kolleger, Patrick Huber
10:30-10:45	Assessment of Residual Shear Capacity of Deep Beams based Solely on Site Measurements Boyan Mihaylov, Eissa Fathalla, Alexandru Trandafir	Combined structural-energy optimization of precast concrete walls for modular buildings Seyedsajjad Hosseini, Aléxia Brandão, André Furtado, Romain Sousa, Ricardo Carmo, Mariana Nunes, Pedro Rio, Eduardo Júlio	Strengthening of Historical Low-Strength Concrete Structures with Carbon-Reinforced Concrete – Large Component Tests Elisabeth Schütze, Alexander Schumann, Farhat Lamisa	Concrete creep prediction – Cyclic hygric and mechanical exposures cannot be neglected Michael Haist, Anna Lena Podhajecy	Evolution of permeability of Low Carbon Ternary Blended Cements – a 180 day study Berjees Qadr, Nicolas Gay, Georges AOUAD, Matthieu Briffaut	Innovative Approach for Submerged Floating Road Tubes Silvino Pompeu-Santos
10:45-11:00	Behaviour of existing post-tensioned concrete bridge girders with bonded curved tendons Alexandru Trandafir, Dan Dragan, Rik Steensels, Hervé Degée, Boyan Mihaylov	Performance Analysis of Dry Connections in Precast Walls Under Cyclic Tension Loading Ricardo Martins, Ricardo Carmo, Hugo Costa, André Furtado, Romain Sousa, Eduardo Júlio	Concrete structures strengthened with carbon-reinforced concrete under service loads David Sandmann, Carolin Würgau, Steffen Marx	Autogenous Shrinkage Model for Concrete Considering the Combined Effects of Mineral Admixtures, Huan-Chi Ma, Yue Geng, Giovanni Di Luzio, Yu-Yin Wang	Mechanical and structural behavior of low-carbon concrete based on a clinker-free binder containing metakaolin Tom Rigaud, Zakaria Djamaï, Gabriel Samson, Raphaël Bucher, Christian CREMONA, Martin CYR	Technical management of horizontal reaction force adjustment work and section force improvement by jacking down method in PC multi-span continuous rigid frame bridge - Construction Of Kinoshiki Ohashi Bridge- Toshiaki Fujiwara, Takashi Okubo, Hayami Yanagida, Noritake Hirata, Tomohiro Shibuya, Takahiro Inagaki
11:00-11:15		Seismic behaviour of a 6-storey precast concrete modular building: Performance assessment and parametric study André Furtado, Romain Sousa, Ricardo Carmo, Eduardo Júlio	Synergy between silica fume and crystalline admixtures on the self-healing capacity of Textile-Reinforced Mortars Niki Trochoutsou, Liberato Ferrara	Refined analysis of reinforced concrete structures subjected to external loads and imposed deformations Alejandro Perez Caldentey	Mechanical behaviour and deformations of low-carbon concretes with limestone, blast furnace slag or metakaolin Suzanne LE THIERRY, Thomas Duvall, François Jacquemet	Development of Replacement Technology for UFC Flat Decks and HSPJ Decks and Its Application to the Kobe Route Renewal Project Hajime Aoi, Sota Sasawaki, Tomoaki Hasegawa and Yasuyuki Iwa-sato

11:15-12:30 Parallel Session 5						
	Amphitheater Antipolis	Ella Fitzgerald Room	Miles Davis Room	Louis Armonstrong Room	Gould 1 Room	Gould 2 Room
	SPECIAL SESSION 6 (2/2) Physical based modelling of assessment of existing concrete infrastructure Chairs Yuguang Yang & Mihailov Boyan	SPECIAL SESSION 16 (2/2) Prefabricated Concrete Modular Buildings Chairs Eduardo Júlio & André Furtado	SPECIAL SESSION 10 (2/2) Retrofitting and strengthening of existing structures using non-metallic reinforced concrete Chair David Sandmann	SPECIAL SESSION 19 (2/2) Challenges and novel insights into the time-dependent behaviour of concrete Chair Thierry Vidal	Parallel Session 5a Structural design (2/4) Chair Enrico Baumgartel	Parallel Session 5b Recycling (1/2) Chair Elhem Ghorbel
11:15-11:30	Numerical modelling of RC dapped-end beams with different reinforcement layouts Giovanni Menichini, Maurizio Orlando, Anssi Laaksonen	Fire behaviour of modular reinforced concrete buildings – numerical simulation of the thermomechanical response Eloísa Castilho, João Pedro Firmo	Standardising Bond Characterisation Method for Carbon-Reinforced Concrete in Strengthening Applications: Interlaboratory lap-splice tensile tests Duy Minh Phuong Vo, Nazmul Hasan, Elisabeth Schütze, Alexander Schumann, Miriam Melzer, Jan Philip Schulze-Ardey, Jan Bielak, Fabian Thems, Cynthia Morales Cruz, Vitalii Kryzhanovskiy, Christopher Taube	Temperature impact on the mechanical properties of high-strength concrete Shamseldin Abdo, Quoc Tri Phung, Robby Caspeelee, Suresh Seetharam, Roman Wan-Wendner	Generative design of reinforced concrete structures incorporating constructability aspects Karin L. Yu, Eleni Chatzi, Walter Kaufmann	Recycled sand for 3D-printed Strain Hardening Cementitious Composite: A Review of Recent Developments Laura Sofia Gomez Jaramillo, Mladena Lukovic, Branko Savija, Wen Zhou
11:30-11:45	Using acoustic emission monitoring to assess the reliability of existing concrete structures: a case study Fengqiao Zhang	Structural assessment of bolted connections under shear cyclic loading developed for precast concrete walls Ricardo Martins, Ricardo Carmo, Hugo Costa, André Furtado, Romain Sousa, Eduardo Júlio	Seismic behaviour at Ultimate Limit State of RC structures retrofitted with GFRP rebars Mattia Mairone, Raffaele Tarantini, Giuseppe Andrea Ferro, Davide Masera	Experimental study on the compressive sustained load strength of concrete with high age at loading Jonas Geng, Robin Mecka, Freek Bos, Oliver Fischer	Numerical application of a novel method to determine composite action proving load-dependent behaviour of the interface Jules Smits, Stijn François, Ann Van Gysel, Tom Molkens	Bond behavior of recycled aggregate concrete with steel rebars Annkathrin Sinning, Dominik Wrona, Josef Hegger, Martin Classen
11:45-12:00	Reconstructing As-Built CAD Drawings for Existing Buildings from Laser Scanning Data Fengyu Zhang, Qingzhao Kong, Cheng Yuan, Peizhen Li	Experimental characterization of the monotonic and cyclic behaviour of a new dry-horizontal joint between precast walls Aléxia Brandão, Sajjad Hosseini, André Furtado, Ricardo Carmo, Romain Sousa, Yllnor Tmava, Wanchai Detphan, Wit Derkowski, Eduardo Júlio	Mechanical characterization tests and numerical simulations for evaluating the effectiveness of fiber-reinforced cementitious mortar as shear strengthening of masonry walls Carlo Vienni, Maurizio Orlando, Luca Salvatori	Compressive strength development of concretes with volcanic ash exposed to realistic temperature conditions Anja Klausen, Antonia Menga, Terje Kanstad	Setting of arbitrary combinations of constant bending moments and constant shear forces in reinforced concrete beams Thilo Schmidt, Clara Walsemann, Andrej Albert, Peter Mark	Optimum contents of waste materials from wind farm decommissioning for incorporation into concrete mixes Nerea Hurtado-Alonso, Marta Skaf, Ana Belén Espinosa González, Roberto Serrano-López, Chaimae Mourou, Juan M. Manso
12:00-12:15	Experimental investigation of the fatigue behaviour of reinforced concrete dapped-end connections Sameera Hippola, Boyan Mihaylov	Computer Vision System for Dimension Control in the Prefabrication of Concrete Panels Paul Debus, Jónatas Valença	Highly resilient externally strengthened blasted concrete beams through improved self-centering Cesare Signorini, Franz Bracklow, Eric Jacques, Chris Jackson, Petr Maca, Birgit Beckmann, Viktor Mechtcherine	Time dependent modelling of concrete for the simulation of 3D printing Libor Jendele, Jiri Rymes, Jan Cervenka, Michaela Herzfeldt	Introducing a novel experimental setup for assessing the progressive collapse resistance of structures Andri Setiawan, Diego Cetina, Maria L. Gerbaudo, Lorenzo Marin, Manuel Buitrago, Nirvan Makoond, Jose M. Adam	Experimental Investigation of Aggregate Replacement Ratios in Concrete with Recycled Concrete Aggregates Cecilie Kristensen, Linh Cao Hoang, Jesper Harrild Sørensen, Gregor Fischer, Lars Zenke Pørløv Hansen
12:15-12:30		BIM Library Plugin for Circular Economy: Leveraging Digital Product Passports for Sustainable Design João Palma, António Aguiar Costa	Behavior of RC Beams Strengthened with CFRP Sheets Exposed to Low Temperature Inyong Lee, Jongkwon Choi	Homogenization Methods for Characterizing the Viscoelastic Behavior of Concrete in Service and Deconstruction Phases Francois Soleihet, Maxime Ressler, Julien Sanahuja	Partial collapse tests of a precast concrete building specimen Andri Setiawan, Nirvan Makoond, Manuel Buitrago, Jose M. Adam	
12:30-14:00	Lunch & Exhibition (Gould Space)					
13:00-14:15	Posters Session (Gould Space)					
Application of Digital Twins and IoT for investigating damage caused to buildings under dynamic influences Kaliukh Iurii, Sliyusarenko Yuriy, Marienkov Mykola, Siedin Volodymyr, Tytarenko Volodymyr, Kovba Vladyslav, Kosheleva Nina, Kurash Sergii, Yakovenko Ihor, Usenko Mykola, Zhemelinsky Ilya, Vasyl Kliuiev, Berchun Yaroslav				Monitoring drying in cement paste and concrete: Application of a novel ultrasound based method Eva Jäggle, Jithender J. Timothy, Christoph Gehlen		
Climate change induced carbonation and corrosion of EU building stock: recent findings Dimova Silvia, Polo Lopez Cristina Silvia, Sousa Maria Luisa, Rianna Guido, Bastidas-Arteaga Emilio, Nogal Maria, Gervasio Helena, Martorana Emilio, Reder Alfredo, Athanasopoulou Adamantia				Numerical simulation of stud pullout in concrete using a regularized damage model Matthieu Le Noir de Carlan, Ludovic Jason, Luc Davenne		
Concrete-reinforcement bond tests in high-performance self-consolidating concrete Dyba Marcin				Optimising robotic production of interlocking dry joints for the connection of reused concrete members Ben Stöhr, Marius Hägle, Alexander Stark		
Estimation of Lateral Displacement Induced by High-Rise Building Horizontal Loads Using Timoshenko Beam Theory Alnaser Ahmad, Issa Mohamad				Review of testing, assessment, and design methods on post-installed bonded fasteners into masonry under seismic action Doruk Gurkut, Giovanni Muciaccia		
Evaluation of The Corrosion on Capacity of Prestressed Concrete Girder Nossoni Gali, Maharjan Saroj				Software-Based Optimization of Reinforced Concrete Floor Structures Using Environmentally Friendly Materials Anna Horáková, Iva Broukalová, Alena Kohoutkova		
Investigation of Mechanical Properties of Ceramic Waste Powder Based Low Molarity Geopolymer Composites Aslı Polat, Yunus Emre Avcı, Mücteba Uysal				The metro station modification into a multi-storey shopping center using Digital Twins and Internet of Things Volodymyr Tytarenko, Iurii Kaliukh		
Mechanical and durability properties of functionally graded crumb rubber concrete Mohammed A. Mujalli, Samir Dirar, Marios Theofanous, Abdelazim Mustafa Mohamed				Trials on fibre reinforced concrete for hydraulic structures Nicolas Bagnoux, Marie Allain, Germain AURAY, Domitille Sébastien, Bastien Dupuis, Papazian Mickael, Sauvaget Cyrille		
Mechanical Performance of Sustainable Concrete with Recycled PET and Tire Rubber Valeria Franco-Quiñonez, Natividad García-Trancoso, David Valverde-Burneo, Ignacio Segura						

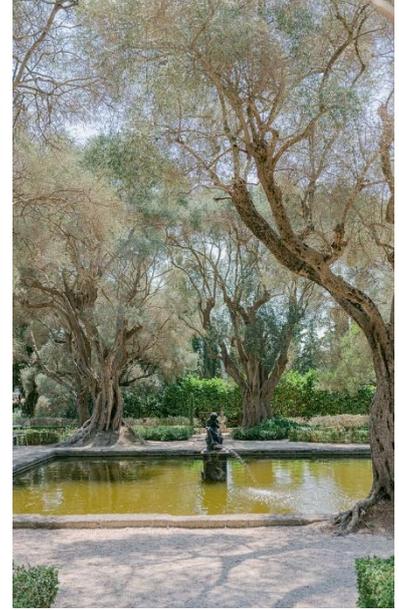
Parallel Session 6							
	Amphitheater Antipolis	Ella Fitzgerald Room	Miles Davis Room	Louis Armonstrong Room	Gould 1 Room	Sydney Bechet Room	Gould 2 Room
14:15-15:30	SPECIAL SESSION 17 (1/2) <i>fib</i> Guides on protection, repair and strengthening Chairs Eduardo Júlio & Veronique Bouteiller	SPECIAL SESSION 18 Monitoring of reinforced concrete structures by means of embedded sensors to assess the indicators of their durability Chair Géraldine Villain	SPECIAL SESSION 21 (1/2) 3D printing of concrete and concrete structures Chairs Yong Yuan & Yaxin Tao	Parallel Session 6a Innovative materials Chair Laurent Michel	Parallel Session 6b UHPFRC (1/2) Chair François Toutlemonde	Parallel Session 6c Construction methods and management (2/2) Chair Jan Vitek	Parallel Session 6d Recycling (2/2) Chair Nikola Tomic
14:15-14:30	Overview on the <i>fib</i> Guide on protection, repair and strengthening techniques for concrete structures (<i>fib</i> bulletins 102 and 103) Eduardo Júlio	Monitoring of water content of concrete by embedded resistivity and newly developed capacitive sensors Houssein Ibrahim, Géraldine Villain, Jean-Paul Balayssac, Sérgio Palma Lopes, Narintsoa Ranaivomanana, Xavier Dérobert	Conceptual Design and Production of a 3D Printed Concrete Base Brick with Evaluation of its Thermal Properties Elisabeth Radl, Marc-Patrick Pflieger, Alexander Sieh, Markus Vill	Initial investigations on stress redistributions between different CFRP reinforcement types Marius Hägle, Felix Hofmann, Alexander Stark	Evaluation of Fatigue Characteristics of Self-Healing UHPC using Ultrasonic and Natural Frequency Methods Yusuke Nagai, Zhewen Huang, Roberto Felicetti, Liberato Ferrara	An Optimization Method for the Intelligent Modularization of Concrete Frame Structures Niklas Frank, Robert Renz, Felix Hofmann, Albert Albers	Experimental investigation of the short- and long-term behaviour of recycled aggregate concrete precast/prestressed hollow core slabs Michael McGinnis, Michael Gangone, Alejandro Nogales, Lizeth Marisol Gomez-Santana, Brad Weldon, Adam Reihl, Nikola Tošić, Yahya Kurama
14:30-14:45	Electrochemical chloride extraction (chapter 7 from bull 102 and "a review") Véronique Bouteiller	Monitoring of water content and mechanical properties of concrete by ultrasonic velocity enhanced by tomographic method Rouba Hariri, Nicolas Derrien, Maximilien Leheurteur, Jean François Chaix, Vincent Garnier, Olivier Durand, Odile Abraham	Pore structure analysis of printcrete under varying temperatures Yaxin Tao, Yong Yuan, Yi Zhang, Timothy Wangler	Topological interlocking assemblies based on origami inspired carbon-reinforced concrete waterbomb modules Carlos G. Gomes, Sascha Stüttgen, Meike Weiß, Reymond Akpanya, Alice C. Niemeyer, Daniel Robertz, Rostislav Chudoba	Finite Element Analysis for Eccentric Performance of Ultra-High Performance Concrete Columns with Fiber-Reinforced Polymer Bars Baozheng Zhang, Weichen Xue, Jiafei Jiang	Construction of the arch bridge in Cervena Jan Vitek, Milan Spicka, Petr Sykora, Roman Simacek	Design of Rigid Pavement with Hydraulic Concrete Using Recycled Tires on a Class IV Road, Ruta del Cacao – Guayas - Ecuador Natividad García Troncoso, Samantha Hidalgo-Astudillo, Julianny Torres, Javier Zuña, Nadia Quijano, David Valverde, Carola Gordillo, Albert de la Fuente
14:45-15:00	Electrochemical chloride extraction considering ASR potential of concrete (chapter 7 from bull 102) Takao Ueda	Metrological analysis to extract the qualified observables, corrected from temperature effects Jean-François Chaix, Rouba Hariri, Houssein Ibrahim, Odile Abraham, Sergio Palma Lopes, Xavier Derobert, Jean-Paul Balayssac, Vincent Garnier, Geraldine Villain	Concrete 3D printing and reinforcement: Determination of bond strength through pull-out tests Johannes Ewerz, Marc-Patrick Pflieger, Elisabeth Radl, Patrick Huber	A Holistic Approach for Carbon-Reinforced Concrete Structures Using Modular Design and Homogenization Techniques Marja-Lisa Herrmann, Domen Macek, Leonie Mester, Finn Döpke, Aya Ragab, Viviane Adam, Hagen Holthusen, Tim Brepols, Simon Klarmann, Sven Klinkel	Ultra-High Performance Concrete and Normal Strength Concrete Interfacial Bond in Columns Mina Fakeh, Amir Fam	How modern technology can support the inspection of cable-stayed bridges Gianni Moor, Colm O'Suilleabhain, Tristan Craig-Tyler	Influence of Fine recycled aggregates on the properties of 3D printing concrete Jose Luis Hermida, Ruth Saavedra, Samantha Hidalgo-Astudillo, Nikola Tošić, Miren Etxeberria, Albert de la Fuente
15:00-15:15	Experimental investigation on effects of graphene on ICCP-SS intervention method for concrete structures Xiaoming Zhu, Meini Su, Yong Wang	Combination of multi-physical sensors for concrete durability indicators evaluation using AI Sylvain Dufau, Cédric Baudrit, Mehdi Sbartai, Vincent Garnier, Géraldine Villain, Sidi Mohammed Elachachi, François Demontoux	Experimental analysis of the structural behavior of hybrid concrete 3D printed-cast beam systems Lien Saelens, Kim Van Tittelboom, Robby Caspeele, Roman Wan-Wendner	Comparison between experimental and numerical investigation of the bending behavior of carbon prestressed concrete plates with openings Nima Kian, Yasar Hanifi Gedik, Goran Vojvodic, Nguyen Duc Tung, Nguyen Viet Tue	A comparative study on design approaches for Ultra-High Performance Concrete flexural elements Sina Yüksel, Torsten Leutbecher	High-Speed Visual Inspection of Railway Viaduct Intrados Pierre Carreaud, Ayoub Dakir, Thibault Gouache, Julien Baron	Optimizing Concrete Mix Design for Increased CO2 Absorption Goli Nossoni, Eddie Luzik, Ayodeji Ajidahun
15:15-15:30	Externally Applied Textile Reinforced Systems - <i>fib</i> Bulletin 103 Chapter 6 Francesco Bencardino, Pietro Mazzuca	Monitoring of electrical resistivity profiles of concrete structures submitted to tide in marine environment Sérgio Palma Lopes, Marie-Ange Eid, Géraldine Villain, Stéphanie Bonnet		Time-dependent flexural behavior of hybrid fiber reinforced concrete Sergio Carmona, Giovanni Pilizzari			
15:30-16:00	Coffee break & Exhibition (Gould Space)						

16:00-17:15 Parallel Session 7						
	Amphitheater Antipolis	Ella Fitzgerald Room	Miles Davis Room	Louis Armonstrong Room	Gould 1 Room	Sydney Bechet Room
	Parallel Session 7d Structural design (3/4) Chair Konrad Bergmeister	SPECIAL SESSION 24 Extending the life of concrete structures via intelligent digital twin technology Chairs Chongjie Kang & Steffen Marx	SPECIAL SESSION 21 (2/2) 3D printing of concrete and concrete structures Chairs Yong Yuan & Yaxin Tao	Parallel Session 7a Assessment (1/2) Chair Akio Kasuga	Parallel Session 7b UHPFRC (2/2) Chair Liberato Ferrara	Parallel Session 7c Creep and shrinkage Chair Alejandro Perez-Caldentey
16:00-16:15	Directive reuse precast concrete elements Rob Vergoossen, Danny Jilissen, Thijs Noordhoek	Bridge Database for Digitalization Sylvia Keßler	Experimental Study on Time-Dependent Pumping Behaviour of 3D Concrete Printing Pathmanathan Rajeev, Nilusha Nissanka, Jay Sanjayan	Structural assessment of the Albert-Loupe Bridge: temperature effects on the global behaviour Sellin Jean-philippe, David Tronchet, Antoine Theordore	Fiber alignment in hybrid fiber reinforced self-compacting UHPFRC Thomaida Polydorou, Demetris Demetriou, Prodromos Pigiotis, Anna Mina, Demetris Nicolaidis, Michael F. Petrou	Comparing the design of post-tensioned concrete bridges by EN 1992 and TMH7 by a probabilistic analysis Francois Joubert, Gideon Van Zijl, Nico De Koker, Pierre Van der Spuy
16:15-16:30	Comparison between timber-concrete and steel-concrete composite slabs. Where are we now? Laura Corti, Giovanni Muciaccia	Automated Damage Detection in a Nonlinear Model Updating Approach for Concrete Bridges Martina Schnellenbach-Held, Bjarne Sprenger	Analysis of factors influencing the maximum continuous printing height of 3D printed concrete Zibo Zuo, Yulin Huang, Yaxin Tao, Yong Yuan, Wouter De Corte	In-situ survey of post-tensioned bridges in Slovakia Peter Paulík, Jakub Gašpárek	UHPFRC slabs for retrofitting half-joints bridges Matteo Colombo, Greta Cornaggia, Giulio Zani, Marco Di Prisco	Propagation of creep and shrinkage model uncertainties in predicting multi-decade behaviour of box girder bridges Arthur Slobbe, Gijs Eumelen, Bart Van den Broek, Jasper Doorgeest
16:30-16:45	The influence of nodal region detailing on the quasi-static and dynamic response of frame structures Andrea Monserrat-López, Duarte M. Viula Faria, Fabio Brantschen, Alejandro Nogales Arroyo, Miguel Fernández Ruiz	Characterisation and benefits of digital sensors for Structural Health Monitoring of the Nibelungen Bridge Worms Ralf Herrmann, Eshwar Kumar Ramasetti, Poojitha Ponnamp, Sebastian Degener	Assessment of Post-Tension Capacity in Novel 3D-Printed Topology-Optimized Formwork via Load Transfer Testing Mahsa Sakha, Saim Raza, Xiaomeng Wang, Haifeng Fan, Niels Pichler, Moslem Shahverdi	In situ and laboratory testing of fiber-reinforced cementitious mortars for cortical restoration of viaduct piles Carlo Vienni, Luca Salvatori, Maurizio Orlando, Salvatore Giacomo Morano	Time-dependent behaviour of PS-UHPC balanced cantilever box girder with a central hinge A S Dwivedi, M. N. Shariff	Nonlinear finite element analysis of the mechanical behavior of asphalt considering viscoelastic characteristics Wooyeon Kim, Hyo Eun Joo, Yuya Takahashi, Maeshima Takuya
16:45-17:00	Parametric design study of textile-reinforced concrete sandwich panels with recycled PET foam core Erich Meiners Munoz, Panagiotis Kapsalis, Tine Tysmans	Quantifying the uncertainty of predictive simulations in digital twins through the identification of model bias Daniel Andrés-Arcones, Martin Weiser, Phaedon-Stelios Koutsourelakis, Jörg F. Unger	Characterization of Cold Joint Formation in Digitally Printed Mortar During the Dormant Phase: A Time-Dependent Study M Divya, S.A.H Riza, M. N. Shariff	Evaluation of residual prestress in concrete beam with modified saw-cut method Andrea Nino Consiglio, Gianpaolo Rosati, Giovanni Muciaccia, Dario Coronelli, Gianluca Ascari		Restrained shrinkage induced early-age cracking of blended-cement based concrete with fly ash and slag Castel Arnaud, Sumaiya Afroz, Quang Dieu Nguyen, Taehwan Kim, Htet Lin
17:00-17:15	Experimental investigation of the combined in-plane and out-of-plane shear capacity of reinforced concrete elements without shear reinforcement Jens Skovgaard Larsen, Søren Gustenhoff Hansen, Henrik Brøner Jørgensen	Probabilistic Sensor Fault Detection in Bridge Structural Health Monitoring Jan-Hauke Bartels, Cedric Eisermann, Chongjie Kang, Steffen Marx		Research on tendon's transmission length in old post-tensioned concrete structures Rafał Walczak, Wit Derkowski		Restrained Shrinkage Cracking in FRC Slabs Porsiem Tang, Ali Amin, Ian Gilbert, Walter Kaufmann

17:15-18:30							
Parallel Session 8							
	Amphitheater Antipolis	Ella Fitzgerald Room	Miles Davis Room	Louis Armstrong Room	Gould 1 Room	Sydney Bechet Room	Gould 2 Room
	SPECIAL SESSION 3 Structural and Seismic Performance Evaluation of Ageing Concrete Bridges Chair Mehdi Kashani	SPECIAL SESSION 25 Strut-and-Tie & Stress Fields Chair Miguel Serio Lourenço	Parallel Session 8a Fibres (1/3) Chair Tor Arne Martius- Hammer	Parallel Session 8b Assessment (2/2) Chair Max Hendriks	Parallel Session 8c Durability (1/5) Chair Bruno Godart	Parallel Session 8d Concrete structures (2/) Chair Terje Kanstad	Parallel Session 8e Structural design (4/4) Chair Steve Foster
17:15-17:30	Numerical Modelling of Ageing RC Bridge Piers Considering Nonuniform Geometric-Mechanical Degradation Ziliang Zhang, Hammed O. Aminulai, William Powrie, Mohammad M. Kashani	Strut-and-tie models and stress fields: past, present and future Walter Kaufmann, Karin L. Yu	The particle-matrix model as an easy tool for mix design of fibre reinforced concrete Tor Arne Martius-Hammer	Assessment of the corrosion degree of beams subjected to accelerated corrosion based on indirect data Eline Vereecken, Wouter Botte, Geert Lombaert, Robby Caspeele	Experimental Basis for Assessment of Concrete Structures Exposed to Alkali-Silica Reactions Kathrine Mürer Stemland, Terje Kanstad	Analysis of the effect of rebar couplers geometry on the cracking behaviour of reinforced concrete beams Amine Ben-Dahou, Mohamed Nasser, Emmanuel Ferrier, Aron Gabor, Laurent Michel, Rémi Gardes, Richard Boisson, Philippe Huet, Clément Poissonnet, Jean-Marie Dolo	Experimental evaluation of concentrated load distribution in prefabricated floor Milosz Jeziorski, Wit Derkowski
17:30-17:45	Performance assessment of corroded PC beam elements Zila Rinaldi, Alberto Meda, Fabio Di Carlo, Filippo Molaloni		Quality Control of Fibre-Reinforced Concrete Using the Montevideo Test: A Case Study in Real-World Construction Victoria Olivera, Diego Novello, Luis Segura-Castillo	Shear Capacity of Reinforced Concrete Beams with Bent-up Bars Esra Jespersen, Henrik Brøner Jørgensen, Frederik Autrup	Effects of late heating on the delayed ettringite formation in concrete: multi-parameter study Marius Nanfack, Adrien Bouvet, Hector Gomart, Albert Noumowe, Pierre Seguin	Performance assessment of structural joints against progressive collapse in precast concrete structures Sepideh Akbari, Robert Vollum, Bassam Izzuddin	Experimental Investigation of Wall Connections Designed for Disassembly Henrik Brøner Jørgensen, Jakob Bay Sørensen, Christian Buch Goldenberg, Kim Nikolajsen
17:45-18:00	Modeling for seismic analysis of an existing segmental cantilever bridge Maria Rosaria Pecce, Antonio Bilotta,	Practical application of Levels-of-Approximation approach in Strut-and-Tie and Stress Field modelling Duarte Viula Faria, Carlos Meléndez Gimeno, Miguel Sérgio Lourenço, Miguel Fernández Ruiz	FRCM strengthening of floor slabs in Citterio building Marco Di Prisco, Isabella Colombo, Lorenzo Radice, Christian Amigoni fulltext : paper for oral presentation	Inspection of Water Intake Tunnels Using High-Efficiency Photogrammetric Methods Paoline Prevost, Thomas Mauroux, Thibault Gouache, Pierre Carreaud	Performance-based evaluation of Delayed Ettringite Formation reactivity of precast concrete elements containing limited slag content Yvan Thiebaut, Thomas Jochyms, Lionel Linger, François Cussigh, Laurent Boutillon, Julien Gauduchon, Nastaran Vivan, Abdelkrim Ammouche, Aurélien Delevoye, Yves-Henri Pignol	Investigations on the structural behaviour of prestressed modular shell structures with dry joints Felix Hofmann, Ben Stöhr, Alexander Stark	A series of load tests for the preservation of railway arch bridges Jenny Keßler, Steffen Marx
18:00-18:15	Fiber-based Modeling of Corroded RC Bridge Piers Simone Reale, Alessandro Palermo, Alberto Pavese	A computationally efficient FE-tool for ULS and SLS stress field analysis using convex optimization Daniel Vestergaard, Kasper P. Larsen, Peter N. Poulsen, Linh C. Hoang	Effect of incorporating different quantities of recovered steel fibres on the mechanical properties of fibre reinforced concrete Guanzhi Liu, Maria Koetsier, Nikola Tošić, Wim Ekkelenkamp, Marija Nedeljković, Mladena Luković, Albert De La Fuente	3D simulation of restrained ASR expansion for numerical assessment of existing concrete structures Zhanhong Shi, Kathrine Stemland, Guomin Ji, Max Hendriks, Terje Kanstad	Investigation, analysis and cause estimation of cracked prestressed concrete girders due to the application of the desalination Method Koji Osada, Takao Ueda, Akira Nanasawa, Kenta Sato	Discrete numerical simulations of reinforced concrete glass hybrid beam Yilin Wang, Jan Vorel, Bert Van Lancker, Alessandro Proia, Daniele Pelessone, Jan Belis, Roman Wan-Wendner	Selection of appropriate geometries of additively manufactured reinforcement bars for the bond with concrete Luca Locher, Thomas Braml, Bjoern Kleemann
18:15-18:30	Experimental tests inducing shear failure on PC bridge deck girders Francesco Tondolo, Pierclaudio Savino, Antonino Quattrone, Donato Sabia, Mattia Anghileri, Fabio Biondini, Gianpaolo Rosati, Bernardino Chiaia	Conceptual framework for the consistent estimation of crack widths in disturbed concrete regions Boyan Mihaylov, Jaime Mata Falcón, Miguel Ferreira	Influence of Interlayer Properties on the Mechanical Performance of Multi-Layered Concrete Structures Salma Es-satte, Syed Yasir Alam, Jean-Michel Torrenti, Ahmed Loukili	Updating Wind Load Effects in Assessment of Existing Roof Structure - Case Study Miroslav Sykora, Dimitris Diamantidis, Jana Markova, Michal Sen, Adam Valik	Performance Study of a New Sliding Material for Use in Structural Bearings Mariela Cordero Verge	Formulation of a consistent crack width calculation method for reinforced concrete members Otto Terjesen, Reingard Tan, Terje Kanstad	Application of the applied element method to a reinforced concrete sub-assembly under a column-removal scenario Nada Elkady, Laurence Weekes, Levingshan Augustus-Nelson
18:30-19:00	BUSES BOARDING						
19:30-23:30	GALA DINNER FOR REGISTERED PARTICIPANTS						

Gala Dinner

La Bastide du Roy
3055 Av. Jean Michard Pellissier, 06600 Antibes



Dating back to the late 16th century, it was Henri IV who, after purchasing the Château d'Antibes and its fief in 1604, received the estate as a gift during his second marriage in 1608. At the time, it served as the stables and barns for the Château d'Antibes.

The Bastide remained part of the royal estate until King Louis XV inherited it. He eventually sold it, along with other properties, to the City of Antibes on July 15, 1770.

It was during this period that the name "Bastide du Roy" first appeared.

The evening will start with an aperitif cocktail accompanied by culinary entertainment followed by a seated dinner from 20:30.



At the end of the gala dinner, the buses will pick up all participants (around 23:00) for a return to Antibes-Juan Les Pins.

WEDNESDAY 18 JUNE 2025

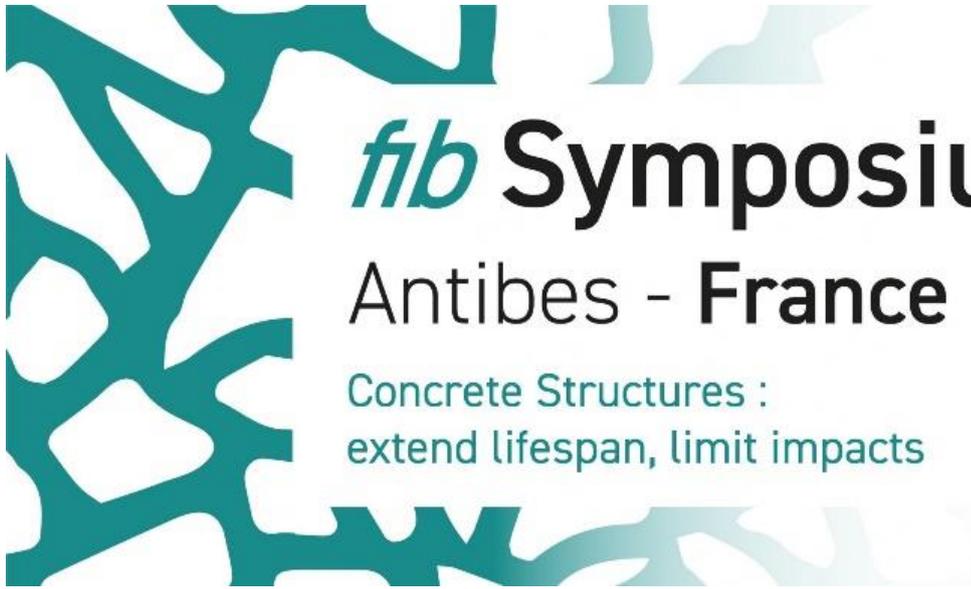
8:00-8:30	Registration desk & Coffee (Méditerranée Space)							
Amphitheater Antipolis								
8:30-9:30	Keynotes - Chair Agnieszka Bigaj-Van Vliet							
8:30-9:00	Keynote 5 : Beatrice Belletti, Simone Ravasini : Structural capacity assessment of PC members subjected to different corrosion-induced damage scenarios							
9:00-9:30	Keynote 6 : Elisabeth Marie-Victoire : The challenges of diagnosing and restoring historic concrete							
9:30-10:00	Coffee break & Exhibition (Gould Space)							
10:00-11:15	Parallel Session 9							
	Amphitheater Antipolis	Ella Fitzgerald Room	Miles Davis Room	Louis Armonstrong Room	Gould 1 Room	Sydney Bechet Room	Gould 2 Room	
	SPECIAL SESSION 21 (1/2) Punching Behaviour of Flat Slabs Chair Antonio Ramos	SPECIAL SESSION 22 (1/2) Data-Driven Innovations in Concrete Materials and Structures Chairs Syed Yasir Alam, Sandra Nunes, Moncef Nehdi	Parallel Session 9a Durability and corrosion (2/5) Chair José Matos	Parallel Session 9b Seismic behaviour (1/2) Chair Alper Ilki	Parallel Session 9c Concrete structures (2/2) Chair Yi Zhang	Parallel Session 9d Rehabilitation and modifications (1/2) Chair Heggade	Parallel Session 9e Concrete (1/3) Chair Giovanni di Luzio	
10:00-10:15	Properties of the interface between two concrete layers for strengthening flat slabs Katarina Gajdosova, Daniel Ceres	Analysis on empirical knowledge transition on mix proportioning by using machine learning Satoshi Fujimoto, Chiharu Usui	Study on the influence of compactness, and type of additions on the durability of low clinker concrete Marion Vouzelaud, Myriam Carcasses, Franck Cassagnabere, Jonathan Mai-Nhu, Patrick Rougeau	Seismic and Energy Retrofit of Reinforced Concrete Buildings Envelopes: State-of-the-art review Christiana Filippou, Daniel Oliveira, Dionysios Bournas, Paulo B. Lourenco	Design and construction of the iconic Saint-Denis Playel station in the Grand Paris Express project Yi Zhang, Christophe Sandré	Stays replacement on the Vasco da Gama Bridge Jean-Michel Odin, Michel Virlogeux, Patrick Ladret, Nicolas Trotin, Rui Monteiro	Can maturity method be applied to low carbon thin concrete elements? Agathe Bourchy, Ibrahim Dahiru, Jean-Michel Torrenti, Gael Le-Bloa	
10:15-10:30	Numerical analysis of fire-induced effects on load-carrying capacity of reinforced concrete slab-column connections under unbalanced moments Ricardo Randi, Andreia Fanton, Leandro Trautwein, Luiz Carlos Almeida, António Pinho Ramos	Automated Air Void Parameter Evaluation in Hardened Concrete using Confocal Laser Scanning Microscopy and Deep Learning Viktor Kostic, Viktor Kotsev, Qadeer Khan, Daniel Cremers, Jithender Timothy, Thomas Kränkel, Christoph Gehlen	Low-carbon concretes: natural diffusion and migration in a non-steady-state regime Stéphanie Bonnet, Gayelle Fahed, Anthony Soive	Preliminary Study on the Seismic Behavior of CFRP-Confining Non-Conforming RC Columns with Retained Plaster Layer Ali Gurkan Gencali, Medine Ispir, Alper Ilki	Causeway footbridges : technical challenges deriving from the integration of a two-part duct and integrated LED system onto stay cables and aerodynamic impacts Vincent Maillet, olivier flamand, Nikolaj Pedersen, Matthieu Guesdon	The application of precast panel "Cap Slab" for deck replacement work of PC composite girder bridges in Japan Nakada Takafumi, Tominaga Takayuki, Mitamura Kenji, Ikehata Shinya	Modelling and Analysis of Hydration Heat Causing Early Age Cracking in Massive Concrete Structures Simona Potůčková, Milan Holý, Jiří Kolísko	
10:30-10:45	Test set-up effect on the punching behavior of slab-column connection: a numerical and theoretical investigation Rafael Díaz, Ricardo Randi, Leandro Trautwein, António Pinho Ramos	Fresh state concrete: augmenting sense data with digital tools Callum White, Janet M. Lees	Diffusive methods for measuring carbonation properties of concrete under natural laboratory conditions Oujjdane Qacami, Bruno Huet, Philippe Turcry, Abdelkarim Ait-Mokhtar, Ravi Patel, Frank Dehn	Impact of Incorporating Parallel Threaded Mechanical Coupler Splices on the Seismic Behavior of Reinforced Concrete Columns Mohamed Nasser, Amine Ben-Dahou, Laurent Michel, Emmanuel Ferrier, Aron Gabor, Rémi Gardes, Richard Boisson, Philippe Huet, Clément Poissonnet, Jean-Marie Dolo	Lost knowledge in construction history - A case study of historical prestressing systems Jakob Vogt, Johannes Reimer, Steffen Marx	Lean duplex stainless steel: a solution to prevent corrosion for reinforced concrete exposed to severe chloride environments Véronique Bouteiller, Sebastien Mignocchi, Eric Chauveau, Thierry Chaussadent, Philippe Mauger, Amandine Bonnet, Victor Da-Silva	Effect of intermittent drying periods on the surface deterioration of blast furnace slag mortars during freeze-thaw de-icing salt attacks Alexander Haynack, Jithender J. Timothy, Thomas Kränkel, Christoph Gehlen	
10:45-11:00	Contribution of Drop Panels to Prevent Progressive Collapse of Columns Supported RC Flat Slabs David Yankelevsky, Yuri Karinski, Vladimir Feldgun	Prediction of mortar flow loss time by using machine learning of electrochemical properties Chiharu Usui, Satoshi Fujimoto, Shin Hara	Sustainable concrete repair practices in Switzerland development of a low carbon footprint, self-healing structural mortar Michel Di Tommaso, Marco Basaldella, Paolo Tudori, Paolo Sabatini	Calculation method based on BRB equivalent stiffness and engineering application Xu Yang, Bin Xue, Xiangxiang Ren, Peizhen Li, Wenlu Wen	Investigation of Shear Cracks in Reinforced Concrete Slender Members with Shear Reinforcement Aakriti Khadka, Giorgio T. Proestos	Effect of Chipping into End Regions of Pre-tensioned Prestressed Concrete Girders on Anchorage Behavior of Strands Jinsei Kuwano, Eisuke Nakamura	Green House Gas implications, steel reinforcement corrosion and concrete carbonation Melchers Rob, Igor Chaves	
11:00-11:15	Punching behavior of slab-column connections with recycled coarse aggregate concrete António Ramos, Carla Marchão, Rui Marreiros, Manuel Domingues, Tainara Cardos	Labelling Strategy Optimizer: An Optimized and Personalized Labelling Solution Dheeraj Dhruvakumar, Navid Ranjbar, Zahra Rastegar	Report on Chloride-Induced Deterioration of Concrete Structures on the Hanshin Expressway Kyoko Kinoshita, Ichiba Takato, Shinomiya Taku, Aoi Hajime		Retrofitting beams at the roof level of existing RC buildings to prevent their progressive collapse Juan Sebastián Fontalvo, Lisbel Rueda-García, Brais Barros, Manuel Buitrago, Jose M. Adam	Effect of binder composition on chloride diffusivity and binding capacity of cementitious material from Australian bentonite Oluwatosin Babatola, Alastair Macleod, Laurie Aldridge, Frank Collins, Will Gates		
11:15-11:30	Influence of column rectangularity on punching shear assessment of sudden column removal scenarios Maria Liapopoulou, Karl Micallef, Juan Sagaseta							

11:15-12:30 Parallel Session 10							
	Amphitheater Antipolis	Ella Fitzgerald Room	Miles Davis Room	Louis Armonstrong Room	Gould 1 Room	Sydney Bechet Room	Gould 2 Room
	SPECIAL SESSION 21 (2/2) Punching Behaviour of Flat Slabs Chair Antonio Ramos	SPECIAL SESSION 22 (2/2) Data-Driven Innovations in Concrete Materials and Structures Chairs Syed Yasir Alam, Sandra Nunes, Moncef Nehdi	Parallel Session 10a Durability and corrosion (3/5) Chair Lionel Linger	Parallel Session 10b Seismic behaviour (2/2) Chair Alessandro Palermo	SPECIAL SESSION Macro Synthetic Fiber-reinforced structural elements – short- and long-term behaviour Chairs Albert de la Fuente, Nicola Buratti, Pedro Serna, Nikola Tosic	Parallel Session 10d Reinforcement Chair Antonio Caballero	Parallel Session 10e Concrete (1/2) Chair Mouna Boumaaza
11:15-11:30	Influence of planted column offset on shear resistance of transfer slabs Jiayu Long, Robert Vollum, Lorenzo Macorini	Application of anomaly detection method to hammering test of concrete structures Hiroshi Shimbo, Toshiaki Mizobuchi, Tomoko Ozeki, Junichiro Nojima	Durability for Sustainability - a Balancing Act Brett Pielstick, Ron Bryson	Forced Vibration Testing of a Rehabilitated Five-Story Reinforced Concrete Shear Wall University Library Cole McDaniel, Peter Laursen, Elizabeth Splees, Samuel Royston	Time-dependent behaviour of polypropylene fibre-reinforced beams: conclusions and takeaways from a three-year experimental campaign on full-scale beams under sustained load Nikola Tošić, Jürgen Bokern, Martin Hunger, Albert de la Fuente	Experimental study on overlap joints of concrete screws as post-installed reinforcement Pascal Perrin, Jürgen Feix	Diagnosis of Reinforced Concrete Elements in a Nuclear Power Plant Cooling Tower for Service Life Extension Noureddine RAFAÏ, Abdelkrim Ammouche, Thibault Lenormand
11:30-11:45	Modelling punching shear failure under eccentric loading by means of nonlinear joint elements Chunrong Lu, Robert Vollum, Lorenzo Macorini	Structural Design Workflows using Multi-Modal Human-Machine-Interfaces in Dlubal RFEM for Concrete Analysis and Design Michael Kraus, Isamu Lautenschläger, Jaroslav Broz, Georg Dlubal	Predictive Maintenance and Optimization of Reinforced Concrete Structures: A Comprehensive Tool for Durability Prediction in Maritime and Road Infrastructure Paulo Claude, Frederic Duprat, Thomas De Larrard, Jonathan Mai-Nhu, Patrick Rougeau, Louis Marrassi, Pierre Mazurelle	Seismic performance of composite sandwich shear walls with different flange types Yonggang Li, Bin Zhao	Enhanced Flexural Performance: Polypropylene Fiber-Reinforced Concrete Beams with Low Reinforcement Ratio Krishnaa Subramanian, Martin Hunger, Jürgen Bokern, Tom Molkens, Rutger Vrijdaghs	The large-scale renovation work on a 23-span post-tensioned T-shaped girder bridge on Hanshin Expressway No.3 in Japan Hiroki Tomonari, Kota Hamazaki, Yuichi Yamashita, Tagawa Chihoro, Suzuki Hiroyuki	Coupled Analysis of Oxygen Diffusion and Corrosion Reactions in Cementitious Materials Using 3D Pore Model Kai Tanigawa, Keiyu Kawaai, Nami Ishizaki
11:45-12:00	Numerical modeling of two-way shear in post-tensioned flat slabs Mary Beth Hueste, Madhura Chavan	Data-driven structural reliability assessment of precast SFRC tunnel segments using tests carried out on L16-1 of the Grand Paris Express project Yi Zhang, Silvia Ientile, Franziska Schmidt, Christophe Sandré, François Toutlemonde	Frequentist parameter estimation techniques applied to the fib carbonation model Juan Mauricio Lozano Valcarcel, Thomas Kränkel, Amir Rahimi, Christoph Gehlen	Impact of Corrosion on seismic response of reinforced concrete structures in severe exposure conditions Environment Michele Delconti, Giovanni Muciaccia, Liberato Ferrara	Performance Assessment of fiber-reinforced concrete with recycled plastics: An Experimental Study Antonella D'Alessandro, Laura Ierimonti, Alina Elena Eva, Matteo Draconte, Luca Torelli, Ilaria Venanzi	Investigation of spatial position of carbon grids in planar textile-reinforced concrete members Lore Zierul, Berk Gündogdu, Birgit Beckmann, Steffen Marx	Innovative concrete carbon mixing system: Preliminary results Marco Davolio, Stefano Gelain, Federico Furlani, Giovanni Muciaccia, Liberato Ferrara
12:00-12:15	Experimental Setup for Investigating Shear and Punching Behaviour of Reinforced Concrete Slab Bridge on Columns Juuso Auvinen, Anssi Laaksonen	Basic research on assessing progression of cracks inside reinforced concrete members using machine learning with electromagnetic waveforms Ruiko Toriumi, hinata yamamoto, Junichiro Nojima, Ito Hitoshi, Toshiaki MIZOBUCHI	HS2 project: supply of an Electrically Isolated Tendons for a precast segmental viaduct, in compliant with fib 75 requirements Antoine Carry, Nicolas Demey, Nuno Geirinhas	ISOSISM PS for optimal seismic protection of concrete structures Mauro Sartori, Stefano Barone, Ivan Alende, Charles Cynober, Cyril Gaucherand	Experimental study on hybrid fiber reinforced concrete with macro-synthetic and steel fibers Giovanni Plizzari, Livio Pascali, Matteo Draconte, Marco Paparella, Francesco Surico, Luca Torelli	Effects of shear properties of thermoplastic Basalt FRP (BF RTP) reinforcing bars on the structural performance of BF RTP-RC beams Yasuo Yamasaki, Ryota Kurihara, Motohiro Ohno, Tetsuya Ishida	Future prospects for the digital quality control of fresh concrete using artificial intelligence and computer vision Michael Haist
12:15-12:30	Punching Shear Behavior of Full-Scale Flat Slabs Cast From Coarse Recycled Aggregate Concrete Tadeaš Fecko, Ludmila Kormošová, António Pinho Ramos, Dario Coronelli, Miguel Fernández Ruiz, Robert Vollum, Jaroslav Halvonik	Detailed Design Optimization of Reinforced Concrete Flexural Sections Using Multi-Objective Genetic Algorithm Paul Quéva, Ludovic Jason, Gilles Arnaud, Gabriel Sarazin	Study on structural concretes produced from ACT low-carbon cement and applicability of Eurocode rules Christian Clergue, François Boutin, Pierre Pimienta		Proposal of Modular prefab hybrid elements for structural slabs mixing wood and Fiber reinforced concrete with macro synthetic fibres Giovanni Plizzari, Luca Facconi, Matteo Draconte, Giovanni Spatti, Debora Nezosi, Massimo Berlinghieri, Davide Salghetti	Steel shear keys for RC balcony-slab joints in internally insulated buildings Anass El Qoraychi, Mohammad Abdallah, Hugues Somja, Tuan-Anh Nguyen, Romuald Billard	Investigation of Carbonation of Concrete Based on Crushed Sand and Admixtures Jacques Herve Koung A Bediang, Elat Assoua Moukete Emmanuel, Djomou Djonga Paul, Mbessa Michel
12:30-14:00	Lunch & Exhibition (Gould Space)						

14:00-15:15 Parallel Session 11						
	Amphitheater Antipolis	Ella Fitzgerald Room	Miles Davis Room	Louis Armonstrong Room	Gould 1 Room	Sydney Bechet Room
	Parallel Session 11a Sustainability Chair Michael Haist	Parallel Session 11b Elevated temperatures and fire Chair Ananth Ramaswamy	Parallel Session 11c Durability and corrosion (4/5) Chair Franziska Schmidt	Parallel Session 11d Monitoring (2/2) Chair Sylvia Kessler	Parallel Session 11e Fibres (2/3) Chair Marco di Prisco	Parallel Session 11f Concrete (2/2) Chair Matthieu Briffaut
14:00-14:15	Grand Paris Express Line 18 viaduct: an efficient design to reduce carbon emission Alexandros Giannopoulos, Anthony Scaramozzino	Comparison between traditional model and hygro-thermal-chemical model of the ballastless track structure at an early age Mengxuan Ye, Zhiping Zeng, Roman Wan-Wendner	An increase of corrosion rate when concrete is subjected to both chloride contamination and carbonation compared to individual attack Huy Tang Bui, Kang Hai Tan	Monitoring of bridges: a new step is reached by improving the accuracy of instrumented spherical bearings Cyril Gaucherand, Michal Ambor, Charles Cynober	Correlation between the Barcelona test and the three-point bending test in steel fibre reinforced concrete Mustapha Kaoua, Hans Pauwels, Mouna Boumaaza, Benoit De Rivaz, Christophe Justino	Fatigue tests on large-scale prestressed reinforced concrete beams Clara Schramm, Aleksei Shmorgun, Dennis Birkner, Raúl Enrique Beltrán Gutiérrez, Steffen Marx
14:15-14:30	Sustainability assessment of bahareque and reinforced concrete structural systems for social housing Alid Rocha-Tamayo, Natividad García-Troncoso, Irene Josa, Albert de la Fuente	Integrated local bond-slip model of reinforcing bar in fibre-reinforced concrete at ambient and elevated temperatures Christopher Kevinly, Panwei Du, Kang Hai Tan	The challenge in defining a reliable critical chloride threshold for reinforced concrete service life modelling Federica Lollini	A Machine Learning-Driven Framework for Scour Detection in Railway Bridges Using Onboard Sensing Tola Sinem, Joaquim Tinoco, Eugene J. O'Brien, Jose C. Matos	Fibre-Reinforced Concrete (FRC): study of the parameters influencing residual flexural tensile strengths Thomas Duval, Pierre-Yves Hervé, François Jacquemot	Experimental investigations of the frictional behavior of sawn and shot-blasted concrete surface under various pressure and gap openings Robin Mecka
14:30-14:45	Impact of new Eurocode 2 over the structural design and environmental sustainability of precast concrete structures Bruno Dal Lago, Alessio Rimoldi	Lessons from TELT Lyon-Turin Tunnel Fire Tests: High-Strength Concrete under Extreme Loads and Fire Curve Takwa Sayari, Mahmoud Abou Dalle, Marie Angelot, Nicolas Bsaibes, Nicola Mazzon, Lionel Linger, Christophe Tessier	From corrosion assessment to electrochemical re-alkalization of carbonated concrete in a hydroelectric dam : A case-study Chantal Chalhoub, Stéphane Laurens, Elie Sassine, Stéphane Panin, Dubosc Arnaud	Height-dependent microstructure of concrete cover in reinforced wall elements using X-ray computed tomography Milena Kucharska, Piotr Dybeł	Reinforcement of Beams with Internally Bonded Carbon Fibre Reinforced Polymer Mehmet Uz, Esra Avci, Yunus Guner, Mustafa Guler	Numerical analysis of load-bearing behavior with brittle material models: examples for steel- and textile-reinforced concrete and masonry Jenny Keßler, Carolin Würgau, Daniel Gebauer, Petr Maca, Birgit Beckmann, Jan Cervenka, Steffen Marx
14:45-15:00	Sustainable Reuseable Hybrid Structural Building System Alireza Fadai	Residual compressive strength of EPS lightweight concrete under heating-water cooling regime Karim Miled, Leila Maghrebi, Hassen Sabeur	Feasibility study on the in-situ measurement of chloride content using X-ray fluorescence analysis for application in the condition assessment and service life prediction of reinforced concrete structures Elena Lorenz, Beate Villmann, Ulf Roland, Christian Wagner, Björn Höhlig	Advanced Continuous Monitoring of Bridge Bearings and Isolators for Enhanced Maintenance Strategies – Real Case Applications Paola Darò, Monica Longo, Salvatore Ferrara, Dario La Mazza, Sebastiano Cogo, Giuseppe Mancini	Portland cement free steel fibre reinforced concrete for structural tunnel applications Marvin Glissner, Carola Edvardsen	Data-based comparison of former and new Eurocode 2 shear provisions for prestressed members without transverse reinforcement Sam Coppens, Robby Caspeele, Roman Wan-Wendner
15:00-15:15	Self-regulating "smart" concretes in sustainable construction Vyacheslav Falikman	Micro-indentation investigations in Concrete and Steel exposed to high temperature Guruprasad Y.K., Ananth Ramaswamy	Modelling of reinforcement corrosion propagation under fib WP 8.9.2 Carmen Andrade		Advantages of hybrid RFRC to increase the redundancy of a ribbed slab: an experimental study Tom Molken, Tobias Barbier, Rutger Vrijdaghs	Finite element-based fatigue assessment of reinforced concrete structures subjected to time-series forces Mohammad Afaghi, Benard Isojeh, Trevor Hrynyk, Anja Klausen, Jan Arve Øverli
15:15-15:45	Coffee break & Exhibition (Gould Space)					

15:45-17:00					
Parallel Session 12					
	Ella Fitzgerald Room	Miles Davis Room	Louis Armstrong Room	Gould 1 Room	Sydney Bechet Room
	Parallel Session 12a CFRP Chair Agnieszka Wiater	Parallel Session 12b Durability and corrosion (5/5) Chair Emmanuel Ferrier	SPECIAL SESSION 14 Carbon Capture and Utilisation by accelerated carbonation of recycled concrete aggregates: results from French Projects Chair Philippe Turcry	Parallel Session 12c Rehabilitation and modifications (2/2) Chair Silvia Ientile	Parallel Session 12d Fibres (3/3) Chair Albert de la Fuente
15:45-16:00	Strut-and-Tie Model Analysis of Prestress Transfer in Concrete Beams with Pre-Tensioned CFRP Strands Maria Serrano Mesa, Sebastian Heberling, Lea Maria Wilmsen, Mike Schlaich	Durability of FRP-to-concrete bonded joints subjected to accelerated aging in laboratory and to field natural aging Emmanuel Ferrier, Arnaud Gagnon, Corentin Le Roy, Jeremy Roth, Christophe Aubagnac, Emilie Lepretre	French projects on the CO2 uptake by carbonation of RCA, Turcry Philippe Torrenti Jean-Michel, Mahieux-Pierre-Yves, Ait-Mokhtar Abdelkarim	Numerical formulation of the generality envelope Alessio Pelagalli, Tom Molkens, Laurens Luyten, Lennert Loos	Statistical Analysis to Assess the Factor $K_{k,max}$ in SFRC Structures Ron Kesse, Yuri Karinski, Avraham Dancygier
16:00-16:15	Structural Performance of CFRP-Reinforced Concrete Beams Using Digital Fabrication Techniques Sven Engel, Eduarda Dilkin, Martin Classen	Durability of textile reinforcement made of hemp fibres impregnated with epoxy resin Sebastian Kuhn, Marcus Ricker, Malte Kaliske, Tânia Feiri	CO2 uptake by a bed of recycled concrete aggregates crossed by a flow of gas with a high concentration of CO2: influence of temperature and initial water content Corvec Gaël, Artoni Riccardo, Turcry Philippe, Richard Patrick, Ait-Mokhtar Abdelkarim	Experimental Study of Effective Desalination Method Using PC T-Girder Specimens Shoji Nojima, Naoki Hagiwara, Kotaro Honda, Takao Ueda	Impact of PVA fiber on the mechanical performance of pervious concrete model material with glass beads skeleton Jie Li, Jun Xia, Luigi Di Sarno, Guobin Gong
16:15-16:30	Behavior of concrete beams prestressed with CFRP reinforcement under flexural load Agnieszka Wiater, Dominika Ziąja, Maciej Kulpa, Juliusz Żach, Paweł Studziński, Tomasz Siwowski	Galecopper Bridge: Securization and replacement of damaged lock-coil cables Matthieu Guesdon, Janwillem Breider, Nicolas Fabry, Jurgen Jochims, Charlotte Murphy, Reno Couwenberg	CO2 uptake by accelerated carbonation of recycled concrete aggregates: quantifying bound CO2 by a defined protocol Pernin Thomas, Cassayre Laurent, Camy Séverine, Jaunkeypsad Kilesh, Kaddah Farah, Corvec Gaël, Jeong Jena, Roziere Emmanuel, Turcry Philippe, Artoni Riccardo	Predicting the Tensile Behavior of TRM composites: A Comparative Study of Established Simplified Models Christiana Filippou, Marco Carlo Rampini, Marco di Prisco, Christis Z Chrysostomou	Application of fiber-reinforced concrete in load bearing structures Chen Lin, Guomin Ji, Terje Kanstad
16:30-16:45	Effect of multiaxial stress state on the load-bearing capacity of CFRP prestressing strands Prathamesh Khorgade	Tenshield, a low carbon filler for post-tensioning tendons Antoine Carry, Julien Mercier, Laurent Gaillet	CO2 uptake by accelerated carbonation of recycled concrete aggregates: characterization at the grain scale by tomography and micro-indentation Kaddah Farah, Lux Jerome, Roziere Emmanuel, Turcry Philippe, Amiri Ouali, Ranaivomanana Harifidy, Ait-Mokhtar Abdelkarim		Influence of fibres and iron dust on the electrical conductivity of 3D-printed concrete mixes Eduardo Galeote, Josep Claramunt, Jose Luis Hermida, Albert de la Fuente
16:45-17:00	Externally bonded CFRP structural strengthening systems – Accelerated resin curing process for rapid return to service Jean-Roch Lucas, Julien Mercier, Alain Huynh, Sylvain Chataigner		Parametric and statistical study of RCA and carbonated RCA properties analysed as of a data collection Braymand Sandrine, Mercado Mendoza Hugo Ramiro, Roux Sébastien		Fabrication of a textile reinforcement from hemp fibres Sebastian Kuhn, Paul Penzel, Lars Hahn, Tânia Feiri, Malte Kaliske, Chokri Cherif, Marcus Ricker

Amphitheater Antipolis	
17:00-17:30	Closure ceremony Closing from the co-chairs and the <i>fib</i> president Presentation of the next <i>fib</i> events



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