

CMBBE 2023 SYMPOSIUM

The 18th International Symposium on Computer Methods in
Biomechanics and Biomedical Engineering

3 – 5 May in Paris, France

INDUSTRY PROPOSAL



CMBBE 2023

18th International Symposium on Computer Methods
in Biomechanics and Biomedical Engineering

3 - 5 May 2023, Paris, France



Arts et Métiers Institute of Technology

Institut de Biomécanique Humaine
Georges Charpak

155 boulevard de l'Hôpital 75013
Paris France

www.cmbbe-symposium.com

Welcome to CMBBE 2023

It is our great pleasure to invite you to the **18th International Symposium on Computer Methods in Biomechanics and Biomedical Engineering** taking place **3 – 5 May in Paris, France!**

The symposium will include plenary lectures by renowned international speakers, workshops and special sessions, free paper presentations, industry workshops. CMBBE 2023 will bring together established researchers and international key speakers, offering top-level, state of the art knowledge and networking opportunities in the field of biomechanics and biomedical engineering. There will be many opportunities to network and connect with new and older colleagues and friends.

The first CMBBE symposium took place in 1992 in Swansea and was organised by Prof. John Middleton. Since then the symposium has become a well-established event, known within the computer methods in the biomedical engineering community as a great platform to stay informed about new developments, make new connections and stay in touch with fellow researchers in the field!

Conference Chairs

Conference Chair: **Wafa Skalli**

Conference Co-Chairs: **Sébastien Laporte, Aurélie Benoit**

Local Organising Committee:

Pierre-Yves Rohan

Claudio Vergari

Laurent Gajny

Emilie Sauret

Maud Creze

Mathieu Specklin

Navideh Abbasnezhad

Floren Colloud

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About CMBBE Symposium

The CMBBE 2023 Symposium is aimed at exchanging knowledge among engineers, scientists, clinicians, and industry regarding the latest developments and innovations in computational biomechanics and biomedical engineering.

The CMBBE 2023 will include plenary sessions, special sessions, oral and poster presentations, as well as industry workshops.

What to expect from CMBBE?

- Receive an overview of current research and development trends in academia concerning a spectrum of knowledge and technologies in the field.
- Receive an overview of current trends in commercialized technology as well as of needs and technological gaps identified by the industry.
- Opportunities for commercialization of inventions and technologies which are still at the research lab phase.
- It is an appropriate environment for informal discussions that encourages follow-up contacts between scientists and companies such as for the development of technologies, consultation projects for companies etc.

Previous CMBBE Symposia

1 st	5 – 7 May	1992	SWANSEA
2 nd	21 – 24 Sept	1994	SWANSEA
3 rd	7 – 10 May	1997	Barcelona
4 th	13 – 16 Oct	1999	Lisbon
5 th	31 Oct – 3 Nov	2001	Rome
6 th	25 – 28 Feb	2004	Madrid
7 th	22 – 25 March	2006	Antibes, France
8 th	27 Feb – 1 March	2008	Porto
9 th	24 – 27 Feb	2010	Valencia
10 th	11 – 14 April	2012	Berlin
11 th	3 – 6 April	2013	Utah
12 th	13 – 15 Oct	2014	Amsterdam
13 th	1 – 5 Sept	2015	Montreal
14 th	20 – 22 Sept	2016	Tel Aviv, Israel
15 th	26 – 29 March	2018	Lisbon
16 th	14 – 16 August	2019	New York
17 th	7 – 9 September	2021	Bonn (virtual)

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Conference venue:

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CMBBE Symposium Secretariat

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CITY OF PARIS

With their history and impressive architecture, Paris's monuments undoubtedly contribute to the charm of the French capital. The Eiffel Tower, Notre Dame Cathedral, the Sacré Cœur Basilica and the Arc de Triomphe are the four best-known monuments.

As for museums, Paris has 144 of them. The Louvre, the oldest one in Paris, is also the world's most-visited museum, with nearly 10 million visitors per year. The Musée National d'Art Moderne, the Musée d'Orsay, and the Palace of Versailles near Paris are also increasingly popular with international visitors. Every year, museums host numerous Parisian exhibitions from all over the world! Places of worship excluded, the 20 most frequently visited museums and monuments in Paris are available for private hire to host corporate events.



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CMBBE 2023 main theme will be ***Challenges in computational biomechanics for tomorrow's healthcare systems***

Abstracts submissions in all fields of computer methods in biomechanics and biomedical engineering will be accepted.

CMBBE 2023 Main Topics

Mechanobiology

- Bacterial and viral mechanics
- Biomechanics of morphogenesis
- Cellular and molecular biomechanics
- Agent-based modelling
- Tissue engineering
- Tissue mechanics
- Growth and remodelling
- Damage and regeneration
- Mechanics in infectious diseases

Structures and systems biomechanics

- Bone
- Brain
- Spine
- Diarthrodial joints
- Skin
- Cardiac and vascular systems
- Reproductive system
- Respiratory system
- Masticatory system
- Plants biomechanics

Human movement analysis

- Rehabilitation
- Musculoskeletal dynamics and neuromuscular control
- Ergonomics
- Sports biomechanics
- Injury biomechanics and crash analysis

Methods in mechanics for biology and medicine

- Inverse problems and parameter identification
- Contact mechanics
- Human modelling for robotics
- Finite element and finite volume method and meshless methods
- Fluid-structure interaction
- Poro-elasticity
- Multiscale and multiphysics modelling
- Machine learning-based methods

Image analysis and processing methods for biology and medicine

- AI methods
- Biomedical image analysis & processing
- Imaging for model validation
- Visualization and quantitative analysis

Clinical biomechanics and translational research

- Implants, orthotics, prosthetics, devices and biomaterials
- Patient-specific modelling
- Computer-aided surgery
- 3D printing in biomedicine
- In vivo imaging and visualization for diagnosis
- Other clinical applications

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Key dates:

- **Abstract submission opens: September, 2022**
- **Abstract submission deadline: October 15, 2022**
- **Review notification deadline: December 20, 2022**
- **Early registration deadline: January 30, 2023**

CMBBE 2023 Partners



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Sponsorship & exhibitor mission

CMBBE Symposium is a platform for networking and cooperation for industry and academics. We plan to maximize this experience by introducing the virtual connectivity and allow our participants to interact with industry also via the conference app during as well as post-conference. We plan to reduce printing and any unnecessary waste, therefore almost all conference materials will be available in electronic version. We will encourage our industry partners and delegates to take the same stand.

Why exhibit at CMBBE 2023?

- Target new clients and launch new products.
- Promote your company image & build your brand.
- Ample networking opportunities with direct access to key leaders
- Establish strategic partnerships
- Demonstrate innovative products
- Build opportunities with existing clients
- Support ongoing education and research in the field
- Promote your company / organisation as a leading supporter of biomechanics and biomedical engineering

The majority of attendees are expected to come from Europe, but also the rest of the world including the United States, Middle East, Asia, Central and South America.

Expected number of participants: 300 - 400.

SPONSORSHIP AND EXHIBITION OPPORTUNITIES

Sponsorship Package

4,000 EUR

- Company flyers insert in the delegates' conference bags
- Company logo and link on the conference website and printed materials
- Email blast to registered delegates
- Full page advert in the printed programme
- 2 free delegate including dinner
- Exhibition space – 4 sqm
- 40% discount on workshop
- Virtual profile in the conference app
- Spot in the demo area

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Exhibition Package

2,500 EUR

- Company flyers insert in the delegates' conference bags
- Company logo and link on the conference website
- Email blast to registered delegates
- 2 free delegate
- Exhibition space – 4 sqm
- Virtual profile in the conference app

Workshop

2,000 EUR

- Includes a time slot in the symposium programme
- Email blast to registered delegates

Exhibition package including workshop

4,000 EUR

- Exhibition space 4 sqm
- Company logo and link on the conference website
- Email blast to registered delegates
- 1 x Company workshop
- Full page advert in the printed programme
- 1 free delegate
- Virtual profile in the conference app

Exhibition area:

The exhibition is located in the central area of the venue. Lunch and coffee breaks will be held in the exhibition area to increase the networking opportunities among delegates and with the industry.

BRANDING OPPORTUNITIES @ CMBBE 2023

- **Conference bags** **1,000 EUR**
- **Pens & notepads** **500 EUR**
- **Lanyards** **500 EUR**

The conference bags, the USB programme and the pens & notepads will be handed out to all participants and provide a high level of exposure for your company. You can design the notepads and pens with your company logo.

The production of the promotional items is the responsibility of the sponsoring company (unless agreed otherwise) and it is not included in the sponsorship.

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SCIENTIFIC AWARDS SPONSORSHIPS

Best Scientific Paper and Presentation	700 EUR
Best Presentation in Imaging and Visualization	700 EUR
Student travel grants	500 EUR

The logo of the sponsoring companies will be included in the final programme and on the conference website, as sponsors of the scientific awards. A representative of the company will be invited to hand over the awards together with the chair of the conference.

IT / Technical Services:

- **CMBBE 2023 app & virtual platform** **1,000 EUR**

CMBBE 2023 App will be available for all participants to access information about scientific programme, exhibition, abstracts and special sessions. Your logo will be visible in the upper part of the app.

- **AV sponsorship** **1,000 EUR**

You will have a slide in between the sessions on the screens in all breakout rooms and in the plenary hall. You can choose the content of your slide whether its company logo and short description or product you would like to promote.

Social events sponsorships:

- **Welcome reception 7th September** **on request**
- **Conference dinner 8th September** **on request**

The sponsoring company can have roll-up posters displayed during the social event and their contribution will be made mentioned on the conference website, in the printed final programme and in the opening ceremony of the symposium.

Advert in the final programme

- Full page A4 inside the programme 500 EUR
- Full page A4 inside back cover 1000 EUR
- Full page A4 back cover 2000 EUR

Insert in the conference bag 500 EUR

Email blast delegates 500 EUR