



The International Association for the Engineering  
Modelling, Analysis and Simulation Community

## NAFEMS International Conference

# Multi Body Dynamics Simulation Conference

14 - 15 November 2023, Munich-Taufkirchen, Germany

As product complexity increases on a continuous basis, MBDS becomes a key discipline thanks to its capability to design and virtually test complex systems composed of many components, but also including mechatronics or other type of physical behavior. Successful optimal design is not only limited to meeting functional requirements, but also to meet tighter regulations and faster time-to-market expectations, while keeping costs low and meet customer expectations for better products.

In order to meet those challenges, MBDS has been evolving in two opposite, but highly complementary directions. On one side, models with higher fidelity allow to represent more and more complex behavior of physical systems.

On the other side, the use of reduced models, which are now capable to run real time, have opened the door to new technologies like model in the loop, software in the loop, hardware in the loop and so on, opening the door to early testing of systems mixing virtual components with real hardware.

NAFEMS is pleased to announce the international conference devoted to Multi Body Dynamics Simulations. The conference will provide an overview of state-of-the-art-methods for the simulation and design of complex systems, mainly within the context of industrial applications and CAE.

The conference brings together researchers, developers, teachers, and users of multiphysics simulation methods to present new results, exchange ideas and discuss the challenges. It is an excellent opportunity to connect to other practitioners in the field of multiphysics and coupled simulations. The conference will include keynotes, exhibits and breakout sessions.

### Call for Presentations

In the first instance, abstracts of 300-600 words should be submitted for consideration by 30 June 2023 by e-mail to [roger.oswald@nafems.org](mailto:roger.oswald@nafems.org). Abstracts must be clearly marked with presentation title, author's name, organisation, address, phone numbers and email address. Authors whose abstracts are accepted will be asked to prepare an extended abstract (typically 2-4 pages) and a Power Point presentation - full written papers are not required. NAFEMS prides itself on its independence and neutrality so we kindly request that submissions avoid any overt commercialism.

Papers dealing with MBD – Multiphysics cosimulation will be presented during a common session organized in collaboration with the NAFEMS Multiphysics Working Group.

We are looking forward to your abstract submission.

Your NAFEMS team

[The conference will be organized by the NAFEMS Multi Body Dynamics Working Group](#)

The NAFEMS Multi Body Dynamics Working Group (MBDWG) has been set up to promote and support the use of Multi Body dynamics simulations in industry. Please contact the chairman, Patrick Morelle, at [mpwg@nafems.org](mailto:mpwg@nafems.org) if you are interested joining the working group.

[www.nafems.org/mbd23](http://www.nafems.org/mbd23)

## Dates

13 November 2023 planned 13:00 - 18:00  
14 November 2023 planned 08:00- 17:00

## Venue

Industrieanlagen- Betriebsgesellschaft mbH  
Lilienthalstr. 12  
85521 Taufkirchen / Munich  
www.iabg.de/

## Exhibition / Sponsoring

Please find further information in due course on the conference website.

## Conference language

English

## Conference Fee

- Non NAFEMS members: 850 Euro/person\*
- NAFEMS member: Free towards using four NAFEMS seminar credits or 550 Euro/person\* if no NAFEMS seminar credits are available

Includes proceedings, lunches, coffee breaks and a certificate.

## Organisation

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Germany  
Tel. +49 176 217 984 01, Fax +49 3 22 11 08 99 13 41  
e-mail: info@nafems.de

## About NAFEMS

NAFEMS is the International Association of the Engineering Modelling, Analysis and Simulation Community. Our principal aims are to:

- Improve the professional status of all persons engaged in the use of engineering simulation
- Establish best practice in engineering simulation
- Provide a focal point for the dissemination and exchange of information and knowledge relating to engineering simulation
- Promote collaboration and communication
- Act as an advocate for the deployment of simulation
- Continuously improve the education and training in the use of simulation techniques
- Be recognised as a valued independent authority that operates with neutrality and integrity

We focus on the practical application of numerical engineering simulation techniques such the Finite Element Method for Structural Analysis, Computational Fluid Dynamics, and Multibody Simulation. In addition to end users from all industry sectors, our stakeholders include technology providers, researchers and academics.

## Conference website

www.nafems.org/mbd23

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Please complete and return by fax to + 49 3 22 11 08 99 13 41 or e-mail to [roger.oswald@nafems.org](mailto:roger.oswald@nafems.org)

- I herewith register for the NAFEMS International Multi Body Dynamics Simulation Conference: , 13 - 14 November 2023, Taufkirchen/Munich, Germany
- I am NAFEMS member – free attendance using 4 seminar credits
  - I am NAFEMS member – no more seminar credits available: 550 Euro/person\*
  - I am not NAFEMS member: 850 Euro/person\*
  - I will submit an abstract which I will send by latest 30 June 2023 to [roger.oswald@nafems.org](mailto:roger.oswald@nafems.org).
- Please send an agenda when published.
- Please send exhibitor information.
- Please send information about sponsoring opportunities.

## Sender

\* plus 19% German VAT

Company / University \_\_\_\_\_

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By registering, you allow us to use and process your information in accordance with our privacy policy: [www.nafems.org/about/privacy/](http://www.nafems.org/about/privacy/)

Online registration: [www.nafems.org/mbd23](http://www.nafems.org/mbd23)