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Introduction

Following an online event in 2021, **Astronika and ESA** are now thrilled to invite you to take part in the 20th **European Space Mechanisms and Tribology Symposium**, which will return in the well-established **on-site format**. This time we invite you to **Warsaw**, as for the first time in its four-decade-long history ESMATS is coming to Eastern Europe.

So save the date for September 20–22, 2023!

Venue

ESMATS 2023 will be hosted by Astronika at [POLIN Museum](#) in Warsaw, Poland!

For the Gala Dinner we will transfer to a restaurant at the foot of the Royal Castle, the UNESCO World Heritage Site, having the opportunity to visit the interior of the castle, try delicious Polish cuisine and enjoy folk performances.

These landmark location will allow you to feel the true spirit of the Polish capital.

Aims and Scope

The aims of the Symposium are to:

- Foster a dialogue between space mechanisms engineers on the design, development, testing, production and in-flight experience of spacecraft and payload mechanisms;
- Encourage personal contacts and cooperation within the mechanisms and tribology community;

- Provide a networking opportunity as well as a presentation platform for companies and organisations;
- Encourage the transfer of technology to and from space applications;
- Promote awareness that space opportunities afford sustainable industrial growth.

Registration and Fees

The Symposium programme and information concerning the registration procedure will be issued in May 2023. Information concerning the submission of abstracts and papers is given under the “Call for Abstracts” below and on the website www.esmats.eu.

Early registration fee by 30th June 2023: **€680 + VAT (23%)**

Regular registration fee from 1st July 2023: **€800 + VAT (23%)**

Included in the fee are:

- Access to all presentations, posters, proceedings and exhibition area,
- Conference materials and goodies.
- Cocktail reception on Wednesday 20th September 2023,
- Symposium dinner on Thursday 21st September 2023,
- Lunches and coffee breaks during the conference,
- Visit to Astronika’s facilities on Friday 22nd September 2023,

Fees do not include accommodation and travel. Delegates are responsible for any costs incurred with respect to travel and accommodation.

Cancellation Policy

Registration can be cancelled at a minimum administration fee of 50% per participant until 15th August 2023. Cancellations after this date are not eligible for refund. Substitution of participants is permitted at no cost.

Working Language

The working language of the symposium is English.

Call for Abstracts

Authors are invited to submit proposals for presentations or posters in the form of an extended abstract (up to 450 words including photos).

[SUBMIT HERE](#)

The abstract submission shall include:

- title of the paper,
- topic covered by the paper as per the proposed categories,
- author(s) name(s) and affiliation(s), e-mail(s) and address(es),
- a clear and precise outline of the novelty of the paper and major points of interest,
- an indication of presentation preference (oral or poster),
- an indication as to whether a paper on the subject has previously been published,
- confirmation that the intended content can be presented and published.

Deadline for Abstracts

Abstracts shall be submitted **online** by 15th February 2023 via the following link: <https://app.oxfordabstracts.com/stages/4948/submitter>

Abstracts selection

Abstracts selection by the ESMATS committee will be based on the following criteria:

- relevance to space mechanisms and tribology,
- topic based on lessons learnt,
- topic based on hardware test results,
- originality/novelty of the innovation presented,
- quality and clarity of abstract.

Authors will be notified of the Organisation Committee's decision in selecting their abstract by 3rd April 2023. Authors whose abstracts have been accepted can download the author's guidelines for the preparation of a paper or poster presentation from the ESMATS Guidelines tab:

<https://www.esmats.eu/warsaw/overview/>

Presentation Policy

For each paper presented orally 15 minutes are allocated followed by 5 minutes for discussion.

Poster Policy

An onsite area will be available for poster exhibition with dedicated time slots for discussion. In addition, the posters will be presented during a dedicated poster session with 5 minutes slots per poster. Some abstracts submitted for oral presentation may be transferred to the poster area, subject to the author's approval.

Proceedings

The proceedings will be available for download during the Symposium from the ESMATS website.

Sponsorship

As with previous ESMATS, there will be opportunities to sponsor the event. As a sponsor, your company logo will appear on the ESMATS website along with the company and product/service information. The sponsorship includes an exhibition booth and one registration seat. For more details, please go to:

<https://www.esmats.eu/warsaw/sponsors/>

Exhibition Area

The Symposium will facilitate a dedicated space for companies to display their products and services. More information can be found in the Exhibiting tab:

<https://www.esmats.eu/warsaw/overview/>

Space Mechanisms related Courses

Associated with the same event, there will be five courses offered, these will be scheduled before the Symposium:

- The Advanced Mechanisms Design Course (AMDC) will be provided by ESA/ESTEC experts from the mechanisms team
- The Space Tribology Course (STC) will be provided by The European Space Tribology Laboratory (ESTL, UK)
- The Compliant Mechanisms Design Course (CMDC) will be provided by CSEM
- The Fundamentals of Space Vehicle Mechanisms Course (FSVM) will be provided by Launchspace (USA)
- Cabaret Ball Bearing Software Training Course will be provided by ESTL, UK

Further information about these courses, specific time schedule and registration procedure will be provided on <https://www.esmats.eu/> when they open for registration in April – June 2023. Minimum and maximum participation may apply for these courses.

Calendar of Events



Best Presentation Award

As in 2021, the ESMATS committee will give a «Best presentation award» to the best presentation during ESMATS 2023.

Organising Committee

- Lionel Gaillard (Chairman), ESA/ESTEC, NL
- Marta Tokarz (Co-Chair), Astronika, PL
- Manfred Falkner (Deputy Chairman) ESA/ESTEC, NL
- David Blum, Beyond Gravity Schweiz AG, CH
- Ed Boesiger (US Coordinator), Lockheed Martin, US
- Jean-Luc Bozet, Université de Liège, BE
- Carlos Compostizo, SENER Aeroespacial, ES
- Frederic Courtade, CNES, FR
- Gilles Feusier, EPFL, CH
- Xavier Francois, Thales Alenia Space, FR
- Harald Langenbach, Airbus Defence & Space GmbH, DE
- Simon Lewis, ESTL-ESR Technology, UK
- Johan Mürer, Kongsberg Defence & Aerospace AS, NO
- Mathieu Robroek, Airbus Defence & Space B.V., NL
- Samuel Senese, OHB System AG, DE
- Enrico Suetta, Leonardo S.p.A., IT

General information about ESMATS and its organisation is available on:

www.esmats.eu and via esmats@astronika.pl



See you soon!

Do zobaczenia!