



THE 3<sup>RD</sup> ANNOUNCEMENT

**Workshop**  
**Numerical Modeling of Earthquake Motions:  
Waves and Ruptures**

**June 23 - 27, 2024**  
**Smolenice Castle near Bratislava, Slovakia**

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The aim of the workshop is to share recent advances in the numerical modeling and understanding of earthquake rupture, earthquake ground motion, and ambient seismic noise. Better understanding of physics of these phenomena based on available seismic data and efficient numerical modelling should eventually help to progress in predicting earthquake ground motion.



## Topics and aspects

### Main topics

Earthquake source dynamics  
Earthquake ground motion

### Main aspects

Numerical methods for rupture propagation  
Numerical methods for seismic wave propagation in complex media  
in relation to earthquake motion and seismic noise  
Analysis of earthquake source dynamics  
Analysis of earthquake ground motion  
Methods for predicting earthquake ground motion

## Co-chairpersons

**Pierre-Yves Bard**

ISTerre, Université Grenoble Alpes, France

**Eric Dunham**

Stanford University, USA

**Alice-Agnes Gabriel**

UC San Diego, USA

**Hiroshi Kawase**

DPRI, Kyoto University, Japan

**Peter Moczo**

Comenius University in Bratislava, Slovakia

## Scientific Committee

**Jean-Paul Ampuero**

GéoAzur, France

**Michel Campillo**

ISTerre, Université Grenoble Alpes, France

**Ruth Harris**

USGS, USA

**Jozef Kristek**

Comenius University in Bratislava, Slovakia

**Nadia Lapusta**

Caltech, USA

**P. Martin Mai**

King Abdullah University of Science and Technology, Saudi Arabia

**Arben Pitarka**

Lawrence Livermore National Laboratory, USA

**Francisco J. Sánchez-Sesma**

UNAM, Mexico

**Wei Zhang**

Southern University of Science and Technology, China

## Dates of the Workshop

Arrival at the Castle:	June	23	2024	Sunday
Workshop Sessions:	June	24 - 26	2024	Monday - Wednesday
Departure:	June	27	2024	Thursday

## Current Deadlines

Travel support (for US participants only)	<b>March 15, 2024</b>
Abstract submission	<b>April 30, 2024</b>
Registration	<b>April 30, 2024</b>



## Workshop Venue

The venue is the Smolenice Castle near Bratislava, Slovakia (50 km from downtown Bratislava, i.e., approximately 1 hour drive). The Castle, owned by the Slovak Academy of Sciences, was converted into a unique conference center. Because of its very nice setting, picturesque architecture, history-evoking interior and pleasant atmosphere, the Castle is a very popular conference venue.

### Useful links

- [map showing location of the Smolenice Castle](#)
- [photos of the Smolenice Castle](#)
- [information about Bratislava](#)
- [information about Slovakia](#)

## Transportation

Participants may conveniently use the Bratislava Airport or Vienna International Airport (Austria), which is located only 46 km from Bratislava. There is at least one bus connection each half an hour from the Vienna airport to the Bratislava. The bus stop at the airport is located directly in front of the arrival hall.

Alternatively participants may arrive in Wien Hauptbahnhof and use one of many train connections to Bratislava.

[More information about how to reach Bratislava.](#)

### **We will organize transportation from Bratislava to the Smolenice Castle.**

The bus pick-up places and schedule will be specified later.

Participants preferring individual transportation to the Smolenice Castle will be provided with detailed information on how to reach the Castle.

## Partial travel funding available to US participants

Thanks to a grant from the National Science Foundation, limited travel funds are available to partially support US participants to attend the workshop. Priority will be given to students, postdocs, early career scientists, and those who will enhance diversity at the workshop.

**Please apply by completing [this form](#) (deadline: March 15, 2024).**

## Registration Fee, Accommodation, and Food

### Registration fee

This includes transport Bratislava-Smolenice-Bratislava, full board (lunches, dinners), coffee breaks, workshop dinner, ice-breaker, garden party, social program, abstract book on a US stick, conference badge.

### Student discount

Students may apply for a 10% discount on the registration fee. Submission of an abstract as a presenting author is the necessary condition for the discount. Students may apply during the registration by selecting 'Student Discount' registration fee and filling in additional information.

Registration fee	Rate per person
Participants	750 EUR
Accompanying Persons	500 EUR

Please register [here](#) (deadline: April 30, 2024).

### Full board

Breakfast, lunch and dinner will be served in two dining halls in the Castle. Special requirements (e.g. vegetarian diet) can be met.

### Cancellation and refund

A written notification of cancellation must be received (by email or mail) from an applicant. Refund will be made through bank transfer.

Date of cancellation	Deducted amount
Before April 30, 2024	none
Before June 1, 2024	30% of the registration fee
After May 31, 2024	70% of the registration fee

### Accommodation in the Smolenice Castle

Accommodation will be paid directly in the Castle. Cash and major payment cards are accepted.

Room	Rate per person per night
Single	79.00 EUR
2-bed	49.50 EUR
3-bed	41.00 EUR
4-bed	33.00 EUR

Due to the limited capacity of the Castle, 80 participants, and due to the configuration of the rooms (single, 2-bed, 3-bed, 4-bed), some participants may be required to share rooms. The type of room is a subject of confirmation by LOC.

In case of exceeding accommodation capacity of the Smolenice Castle, there is an additional accommodation near the Castle.

## Call for Abstracts

Contributions to the workshop will be presented in oral and poster sessions. Deadline for receiving abstracts is April 30, 2024. Abstracts will be accepted in English. Accepted abstracts will be published in an abstract volume in electronic form. Contributors will be notified of acceptance of abstracts by email in May 2024.

### Abstract submission

The maximum number of characters in an abstract is 1800 including spaces. If a figure is a part of an abstract, it should be uploaded in tiff, jpeg, eps or png format. The maximum size of a figure is 10MB.

Please submit your abstract [here](#) (deadline: April 30, 2024).

## Host Organizations



Faculty of Mathematics, Physics and Informatics  
Comenius University Bratislava



Earth Science Institute  
Slovak Academy of Sciences, Bratislava

The technical organizer is SeisCon s.r.o., Bratislava

## Further Information

[NMEM2024@nuquake.eu](mailto:NMEM2024@nuquake.eu)

The 4th Announcement: May 2024

## Previous Workshops in the Smolenice Castle

[NMEM 2019](#) Workshop on Numerical Modeling of Earthquake Motions:  
Waves and Ruptures  
June 30 - July 4, 2019

[NMEM 2015](#) Workshop on Numerical Modeling of Earthquake Motions:  
Waves and Ruptures  
July 5 - 9, 2015

[ESD 2010](#) Workshop on Earthquake Source Dynamics:  
Data and Data-constrained Numerical Modeling  
June 27 - July 1, 2010

[NMESD 2007](#) Workshop on Numerical Modeling of Earthquake Source Dynamics  
September 2 - 6, 2007

[NMESD 2003](#) Workshop on Numerical Modeling of Earthquake Source Dynamics  
September 1 - 3, 2003