



# Emerging Technologies

## Recent advances, current challenges and outlook



Guest Speakers:

**Dr. Sotira Mostrou-Moser** Biosimo Chemicals

**Prof. Dr. Andreas Fichtner** Seismology and Wave Physics, ETHZ

Online registration:

<https://www.empa.ch/web/phd-symposium>

*Empa, Dübendorf, Switzerland  
Tuesday November 29<sup>th</sup>, 2022*



## AIM

Nowadays, the development and application of new highly engineered technologies and materials is crucial for supporting the continuous growth of our society. Sustainability, green technologies, novel approaches, and energy efficiency are the keywords for our future. The Empa PhD Students' Symposium 2022, entitled "*Emerging Technologies: Recent advances, current challenges and outlook*", aims to provide the PhD students with a platform to showcase their research, receive constructive feedback, discuss scientific problems with their peers, and initiate collaborations between attendees from different departments. The PhD students will also have the opportunity to interact with esteemed researchers from both academia and industry.

Join the event with an oral presentation, a poster, or a scientific photo and take the chance to be at the front seat of advancement!

## SCOPE

The symposium covers a wide range of topics related to applied materials science and engineering reflecting Empa's research focus areas. Specifically,

- Advanced and Functional materials
- Materials for Health and Performance
- Energy and Environmental
- Sustainable Built Environment
- Analytical Science and Technology
- Automation and Artificial Intelligence

Empa PhD students active in all fields are strongly encouraged to participate. Students not affiliated with Empa are also welcomed. Experts from all fields will join the symposium to evaluate the contributions and to give valuable feedback.

## DEADLINES

Opening of registration

**September 1<sup>st</sup>, 2022**

**Opening of abstract submission**

**September 15<sup>th</sup>, 2022**

**Abstracts submission deadline**

**September 30<sup>th</sup>, 2022**

**Last date for registration**

**October 15<sup>th</sup>, 2022**

## REGISTRATION

Please register online at

**[www.empa.ch/phd-symposium](http://www.empa.ch/phd-symposium)**



Empa PhD students have priority. For any inquire regarding the registration you can contact us at [phd-symposium@empa.ch](mailto:phd-symposium@empa.ch).

## PRELIMINARY PROGRAM

The Empa PhD Students' Symposium 2022 includes two presentation and poster sessions spread throughout the day, and a permanent scientific photo gallery. The event will be concluded with a ceremony to award the best oral and poster presentations, as well as the most voted scientific photo.

<b>08:30 am</b>	Registration
<b>09:00 am</b>	Welcome and guest speech
<b>10:00 am</b>	Morning oral and poster sessions
<b>12:30 pm</b>	Lunch
<b>01:30 pm</b>	Afternoon oral and poster sessions
<b>03:30 pm</b>	Sponsor speeches and award ceremony
<b>06:30 pm</b>	Dinner and entertainment

## FORMAL REQUIREMENTS FOR THE ORAL AND POSTER PRESENTATIONS

- Participants that would like to contribute with a presentation or poster are requested to submit an abstract according to the guidelines. The guidelines and template are available on the website, [www.empa.ch/phd-symposium](http://www.empa.ch/phd-symposium). Do not forget to indicate your preference, poster/presentation.
- Every abstract will be considered and based on equal distribution of themes the selection will be made. If the abstract is selected, the author will be notified.
- Oral presentations are restricted to 10 min followed by 5 min of discussion. Make sure you provide a clear introduction into the topic to guide the audience.
- Posters are expected to have an A0 size format (841 mm × 1189 mm) in portrait.
- The picture for the scientific photo contest has to be submitted in one of the following formats: tiff, jpg, png or gif format, and the size should be min. 1756 x 2484 pixels.

## EXPERT FEEDBACK

Oral and poster presentations will be evaluated by experts from different scientific backgrounds. The evaluation will be based on the scientific content and the presentation style. The scientific photos will be evaluated by all participants.



Empa Ph.D. Symposium 2022  
**Emerging Technologies**  
Recent advances, current challenges and outlook



## BANQUET

The event will be followed by a dinner, and we cordially invite all participants to attend. Please let us know by checking the box in the registration form.

## PAYMENT

This event is sponsored by Empa and kindly supported by Glatec, Venture Kick Venturelab, BASF, Dottikon, Frontiers in Energy Research, Avantama, Sensirion, GMP, ABB, Physical Electronics GMBH. Thanks to these generous contributions participation is free of charge.

Sponsored by:



Co-sponsored by:

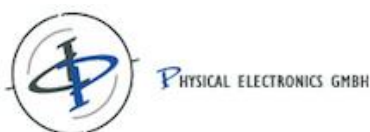


**SENSIRION**

**GMP**

GENERAL  
MICROTECHNOLOGY  
& PHOTONICS

**ABB**





## **TRAVEL AND ACCOMMODATION**

Participants are responsible for arranging their own travel and accommodation. Empa PhD students from St. Gallen and Thun may contact their respective department supervisors regarding reimbursement of transport and lodging expenses. Hostel or hotel bookings can be made via the following websites:

[www.youthhostel.ch](http://www.youthhostel.ch)

[www.hotel.ch](http://www.hotel.ch)

Please direct any further enquiries to

[phd-symposium@empa.ch](mailto:phd-symposium@empa.ch)

## **ORGANIZING COMMITTEE**

Cesarini, Alessia

Orellana, Federica

Boons, Rani

Neziri, Egzona

Rubinetti, Donato

## **CONTACT**

E-mail:

[phd-symposium@empa.ch](mailto:phd-symposium@empa.ch)



## EMPA – MATERIALS AND TECHNOLOGIES FOR A SUSTAINABLE FUTURE

As an interdisciplinary research institute within the ETH Domain, Empa, the Swiss Federal Laboratories for Materials Science and Technology, conducts cutting-edge materials and technology research. Empa's R&D activities focus on meeting the requirements of industry and the needs of society, and thus link applications-oriented research with the practical implementation of new ideas. As a result, Empa is capable of providing its partners with customized services and solutions that not only enhance their innovative edge and competitiveness, but also help to improve the quality of life for the public at large. Through an efficient technology transfer Empa is turning research results into marketable innovations. As part of the ETH Domain, Empa is committed to excellence in all its activities.

### MAP

This year the symposium will be held at the Empa Akademie in Dübendorf.

