CALL FOR ABSTRACTS

Submit Abstracts by 31 March 2023

Location
The Empa-Akademie - Swiss Federal Laboratories for Materials Science and Technology
Dübendorf (Zurich), Switzerland

Organized by
The American Society for Nondestructive Testing

Hosted by
The Empa-Akademie - Swiss Federal Laboratories for Materials Science and Technology

Sponsored by
beyondgravity
The main focus of the International Symposium on Nondestructive Characterization of Materials is the use of nondestructive evaluation methods as an investigation tool to determine the materials properties, and characterize parts of materials or features detected within them. This symposium encourages presentations addressing issues of current and future interest, covering both theoretical and experimental work. Of considerable interest will be state-of-the-art developments and applications where the complex nature of materials is recognized. Furthermore, discussions on the applications and possibilities for multi-technique measurements of interdependent parameters and the evaluation of the data through sophisticated computer analyses are also encouraged.

**Topics To Be Covered**

**By NDE Method**
- Advanced Techniques
- Eddy Current
- Emerging Technology
- Laser Methods
- Laser Ultrasound
- Micro/millimeter Wave
- Nonlinear Ultrasound
- Radiography, DR & CT
- Raman Spectroscopy
- Shearography
- Terahertz Imaging
- Thermography
- Ultrasound

**By Industry**
- Aerospace Application
- Art & Archeology
- Electronics
- Infrastructure
- Medical Imaging
- Nuclear
- Petrochemical
- Railroad

**By Material Type**
- Biomaterials
- Ceramics
- Composite Material
- Nanomaterials

**By Material Property**
- Bond Strength Evaluation
- Fatigue & Fracture
- Health Monitoring
- Mechanical Properties
- Precursor Damage
- Process Control
- Residual Stresses

**By Analysis**
- Imaging
- Modeling
- Signal Processing
- SAFT
Abstract submission deadline: 31 March 2023

How To Submit your abstract:

• Visit asnt.org/events and select the conference(s) you would like to submit to. Important: Each abstract may be submitted to one conference only.

• Click on the Present tab on the conference for specific instructions, and important dates, for submitting your proposal.

• Commercial papers, papers where supporting data or a technical description cannot be given for proprietary reasons, will not be accepted for presentation. See ASNT’s Policy on Commercialization.

• Accepted speakers will be notified of acceptance in April 2023.

• Upon acceptance, additional instructions will be emailed to the presenting author.

By submitting an abstract, you agree to the following:

• Attend the meeting and make the presentation as scheduled in the program. Speakers will be allowed 25 minutes for presentation including questions and answers.

• Obtain funding for registration fees, travel, and accommodations, independent of ASNT.

• Ensure that all clearances have been obtained to present and publish.

Symposium Proceedings

Speakers are also encouraged to prepare and submit a paper (up to 10 pages) related to their presentation for the peer-reviewed Symposium proceedings. Instructions on paper submission will be provided in the abstract acceptance email.

Please note: Papers previously published elsewhere will not be eligible for publication in the Symposium proceedings. However, previous publication does not preclude presentation of the work at the Symposium.

Papers will be published in the ASNT Digital Library and submitted for consideration for inclusion in RNDE and/or Materials Evaluation.

Questions concerning abstracts should be directed to the ASNT conference department at conferences@asnt.org.

Sponsoring the Symposium

A limited number conference sponsor/patron opportunities are available. If you are interested in supporting the conference please contact Ruth Staat at rstaat@asnt.org or via phone 614-384-2427.
World Tour of ISNDCM

The International Symposium on Nondestructive Characterization of Materials (ISNDCM) started under the leadership of the late Prof. Robert E. Green, Jr, from the Johns Hopkins University and Prof. Clayton O. Rudd from Pennsylvania State University. Since its beginning in 1984 the symposium has been held every two years alternatively inside and outside the US. In 2019, ASNT became the parent organization of ISNDCM when it was held in Portorož Slovenia. Speakers delivered their presentations under the breathtaking setting of the Adriatic. Two years later, ISNDCM was held in Baltimore near the Chesapeake Bay and next year we will be a short distance from the Swiss Alps.

In 15-17 Aug 2023, the 17th ISNDCM will be hosted by Empa, located in Dübendorf, a suburb of Zurich. Empa, Federal Laboratories for Materials Science and Technology, is an interdisciplinary research institute associated with ETH, Swiss Federal Institute of Technology in Zurich, where Albert Einstein was a professor of Physics from 1912 to 1914. Empa’s cutting-edge and application-oriented research focuses on the needs of industry and society providing practical implementations of new ideas. True to its mission statement: “Empa – The Place where Innovation Starts”, the research institute provides innovative solutions that improve the quality of life for the public at large.

We hope you can join us in Zurich, share your research findings, and enjoy the presentations given by your counterparts from around the world. We look forward to seeing you there, making new professional connections and enjoying the company of old friends under the charm of the historical old town of Zurich. For tourism and activities, visit https://www.zuerich.com/en/visit/sightseeing.

Regards,

Dr. Shant Kenderian
Prof. Dr. Antonia Neels
17th ISNDCM Program Chairs
About the Location

Characterized by idyllic views of the Alps and its historical charm, Zurich is well established as an ideal destination to host international conferences and meetings. The city is safe and walkable; and it offers excellent infrastructure and a unique concentration of cultural facilities.

Dübendorf is a small town in the suburbs of Zurich in which Empa is located. It is about 25 minutes away from Zurich Airport and 15 min away from main train station in Zurich.

Empa - Materials and Technologies for a Sustainable Future

As an interdisciplinary research institute of 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 to the practical implementation of new ideas. As a result, Empa is capable of providing its partners with customized solutions that not only enhance their innovative edge and competitiveness, but also help to improve the quality of life for the public at large, true to its mission statement: “Empa - The Place where Innovation Starts”. As part of the ETH Domain, Empa is committed to excellence in all its activities.

Other Activities

The tourist center “Zürich Tourismus” offers various exciting packages depending on group size, interest and length of stay.

- Old city town of Zürich and lakeside with view to the Alp. More details: Sightseeing in Zurich | Attractions in Zurich (zuerich.com)
- Boat trip on the lake Zurich
- FIFA Museum and other museums like Kunsthaus (art) or Landesmuseum
- Lindt Home of Chocolate; a dream for all chocolate fans. Lindt invites visitors to a multimedia experience world.
- Rhine Falls – Europe’s Biggest Waterfall
- Journey up the mountain. For example: Rigi, Pilatus, Titlis or Jungfrau-joch. A fantastic panorama, numerous activity options and clean mountain air. More details: Excursions and Day Trips from Zurich | zuerich.com

Hotel Information

There are several hotels close to the Empa-Akademie. Recommended hotels include:

- Sorell Hotel Sonnental
- Harry’s Home Zürich Wallisellen
- Hotel Bahnhof Dübendorf
- Hotel ZwiBack
- Florhof
- Limmathof
- Central Plaza
- Ibis Zürich City West
- Novotel Zürich Airport Messe
- Mövenpick Hotel Zürich-Airport