

2023 7th International Conference
**Microscopy and Non-destructive
Material Testing**
Czech Republic

MICROSCOPY AND NON-DESTRUCTIVE MATERIAL TESTING 2023

17. – 20. 10. 2023

CASTLE HOTEL HRUBÁ SKÁLA – TURNOV

I. Circular Letter

<http://www.konference-fsi.cz/MicroNdt2023>

MICROSCOPY AND NON-DESTRUCTIVE MATERIAL TESTING 2023

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FACULTY OF MECHANICAL ENGINEERING,
JANA EVANGELISTA PURKYNĚ UNIVERSITY IN ÚSTÍ NAD
LABEM, CZ
EVIDENT Europe GmbH
AND
OTHER WORKPLACE MANUFACTURING TECHNOLOGY
AND MATERIALS ENGINEERING UNIVERSITIES AND
INDUSTRY

Invite you to the 7th International Conference

VENUE OF THE CONFERENCE

The original castle from the 14th century, which was later rebuilt into a Renaissance chateau, is located in the Český ráj, on a sandstone rock about 6 km southeast of Turnov above the village of Hrubá Skála.

Castle hotel Hrubá Skála

Hrubá Skála 1
Turnov
511 01

www.hrubaskala.cz

e-mail:

hrubaskala@eahotels.cz

tel.: +420 604 317 618



CONFERENCE SCIENTIFIC COMMITTEE

prof. Dr. Ing. Dalibor Vojtěch

Department of Metallic Materials
and Corrosion Engineering,
VŠCHT, Praha, CZ

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Technical Faculty, Czech
University of Life Sciences
Prague, CZ

Ing. Alena Němečková

EVIDENT Europe GmbH

prof. Ing. Iva Nová, Ph.D.

Faculty of Mechanical
Engineering, Technical University
in Liberec, CZ

prof. Dr. Ing. Antonín Kříž

Department Technology and
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Labem, CZ

prof. Ing. Štefan Michna, PhD.

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prof. Ing. Ivan Lukáč, PhD.

TU Košice, SK

**prof. Ing. Dana Bolibruchová,
PhD.**

Faculty of Mechanical
Engineering of Žilina University,
University of Žilina in Žilina, SK

prof. Stanislaw Legutko, D.Sc.

Faculty of Mechanical
Engineering and Management,
University of Poznan, PL

**prof. Ing. Jarmila Trpčevská,
PhD.**

Faculty of Materials, Metallurgy
and Recycling, Technical
University in Košice

**doc. Ing. Nataša Náprstková,
Ph.D.**

Department Technology and
Materials, FMI UJEP, Ústí nad
Labem, CZ

**doc. Ing. Dana Stančková,
PhD.**

Department of Machining and
Manufacturing Technology,
University of Zilina

OBJECTIVES OF THE CONFERENCE

MICROSCOPY AND NON-DESTRUCTIVE MATERIAL TESTING 2023. The conference is focused on the use of optical, laser and electron microscopy for materials research, optimization of material properties and analysis of relationships with production technologies. Conference approaches use these methods to solve production and technological problems and new trends and opportunities in these areas. In addition, the conference will deal with using non-destructive testing in the production process for testing and inspection of materials and the research approach and the possibility of using special techniques in practice and research (thermal imager, high-speed camera, x-ray equipment, ultrasound equipment and lines, etc.). The conference will be introduced to a variety of devices and equipment which can become familiar with their use, function, operation, etc.

The main goals and focus of the conference **MICROSCOPY AND NON-DESTRUCTIVE MATERIAL TESTING 2023** is to give a comprehensive overview of the current situation in these areas:

- use of microscopy, X-ray methods and non-destructive methods of research and solving technological problems,
- electron microscopy and its applications in science, research and optimization of material properties and manufacturing processes,
- nano and micro coating of aluminium alloys,
- new trends and equipment in the field of microscopy,
- optical and laser microscopy and their applications (science, research, applications, optimization of manufacturing processes),
- fractography and its use as a forensic science,
- use of X-ray methods in solving technological and design problems, non-destructive testing (devices, applications in science, research and industry).

DOPROVODNÉ AKCE

- exhibition and presentation of companies
- competition "**The best material structure photography**"
- competition for "**The best Ph.D. presentation**"
- a social gathering with music and a surprise

CONFERENCE LANGUAGE

The conference languages are Czech, Slovak, Polish, and English.

Papers must be submitted in English (GB English) for publication in the journal Manufacturing Technology (SCOPUS, WoS ISSN: 1213-2489).

CONFERENCE SCIENTIFIC COMMITTEE

doc. Ing. Miroslava Ťavodová, Ph.D.

Faculty Technology, Technical University in Zvolen, SK

doc. Ing. Alena Michalcová, Ph.D.

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Ing. Anna Rudawska Ph.D., D.Sc.

Lublin University of Technology, PL

doc. Ing. Martin Novák, Ph.D.

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CONFERENCE ORGANIZING COMMITTEE

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Ing. Filip Mamoň,

FME, JEPU, Ústí nad Labem, ČR

OBLIGATORY APPLICATION AND SUBMISSION OF CONTRIBUTIONS

OBLIGATORY APPLICATION TOGETHER WITH THE TITLE OF THE PAPER (CZ, EN) must be sent in electronic form to the address of the conference secretariat (jaroslava.svobodova@ujep.cz) no later than **30 August 2023**.

PARTICIPATION FEE AND ACCOMMODATION

Participation Fee: **200 EUR per person with VAT**.

Participation fee includes: Conference fee, conference room rental, technical equipment, refreshments, social events, VAT etc.

The publication fee is not included in the participation fee.

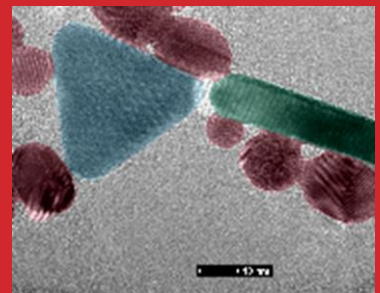
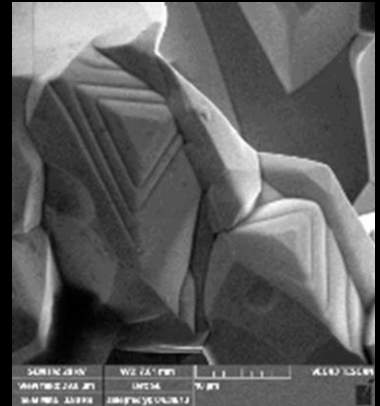
Form of payment only by invoice.

After registering for the conference in the form of a obligatory application, each participant will receive information on how to make the payment.

Accommodation is paid by each participant individually and it is done after arrival at the point of the conference. The Organizing Committee will only provide accommodation reservation.



PHOTOS OF PARTICIPANTS FROM PAST YEARS OF ALUMINUM AND NON-FERROUS METALS – MICROSCOPY AND NDT CONFERENCES



PUBLICATION OF ARTICLES - IMPORTANT



MANUFACTURING TECHNOLOGY
Engineering Science and Research Journal

Journal Manufacturing Technology (ISSN 1213–2489)

The author journal **exclusively through the web portal** for inserting articles into this periodical, see the link below.

<https://journalmt.com/>

Clarivate
Web of Science™

If the author is not registered on the portal MTA must first register, i.e. complete all the required information and submit the form. Subsequently receive e-mail with a link to confirm your registration, thereby activating their personal page. On this page you will have the option to post articles (not just for this conference), and track the status of your article.

For the **Microscopy and Nondestructive Testing of Materials 2023 conference**, please select the "Type of article" the "**NDT conference article**" to assign your article just to this event. *Formal requirements for writing articles (template) are introduced in the Instructions for authors system* https://journalmt.com/artkey/inf-990000-0700_Instructions-for-Authors.php

The publication in the MT journal is within the Microscopy and NDT conference with an extra charge of **200 EUR without VAT**.

The full text of the papers will be accepted only until 1. 9. 2023

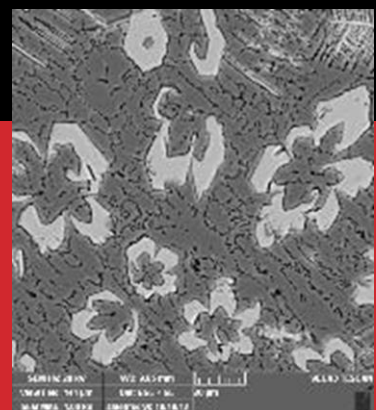
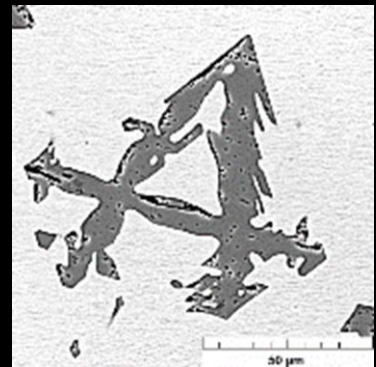
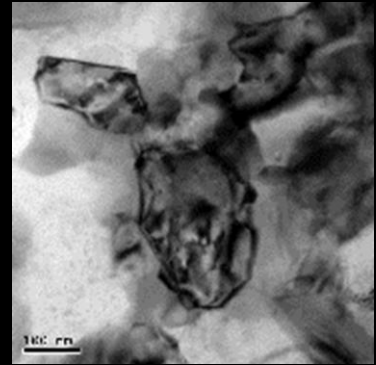
Selected articles, reviewed by the scientific committee of the conference, will be recommended for publication in the scientific journal Manufacturing Technology.

After receiving the article for publication (successful review process), the author of the article will be sent an invoice to pay the publication fee. Within the reduced (conference) publication fee (200 € without VAT MT) **one article of each author** will be published, each additional article will be invoiced at full rate, ie 250 € without VAT for EU authors.

Articles that do not undergo review will not be published.

The reduced price of the publication fee is conditional on active participation in the conference and compliance with the deadline for sending the full text of articles by September 1, 2023. If the article is sent after September 1, 2023, the author is aware that the article will not be published in the designated issue of Manufacturing Technology for this conference, or in the following issue. In case of interest in subsequent publication of the contribution, they must pay the full rate for publication, i.e. €250 excluding VAT.

PHOTOS OF PARTICIPANTS FROM PAST YEARS OF ALUMINUM AND NON-FERROUS METALS – MICROSCOPY AND NDT CONFERENCES



FRAMEWORK PROGRAM

Detailed timetable for the conference with precise timing arrangement of individual contributions and the lectures will be distributed in III. Circular Letter to **9. 10. 2023**.

17. 10. 2023	Registration of conference participants Lunch Opening of the conference 1. Session of the conference – Ph.D. session <i>Competition for the best Ph.D. presentation</i> Dinner	13:00 – 15:00 13:00 – 14:00 14:00 14:00 – 17:00 18:00 – 19:00
18. 10. 2023	Registration of conference participants Opening of the conference 1. Session of the conference Lunch 2. Session of the conference <i>A social gathering with music and a surprise</i>	08:00 – 10:00 08:30 08:45 – 11:45 11:45 – 12:45 12:45 – 14:00 19:00
19. 10. 2023	3. Session of the conference Lunch 4. Session of the conference Closing of the second day of the conference Meeting of the editorial board of the MT journal Social evening program	08:30 – 13:00 13:00 – 14:00 14:00 – 16:30 16:30 – 16:40 17:30 – 18:30 19:00

During the first and second day will also run a competition for "**The most beautiful material structure picture**"

The "Best Picture of the Material Structure" Competition

Competition will be held in two categories namely in the field of colour photography and in the field of black and white photography. Each participant may submit max. 3 colour and 3 black and white photographs of material structure (it is possible to participate in only one of these categories). Photos can be in size max. A4. Each photograph is then needed to describe: zoom, 1 - 2 sentence description of the structure, method of etching and observation.

Photos will be posted during the first day of the conference and will be evaluated by the Competition Commission and the participants (Vox Populi). The winners will be awarded with prizes. Awards will be presented at the social evening of the conference.

Photo images should be sent no later than 6. 10. 2023 to the contact address.

It is also possible to bring the photo in advance, by prior arrangement and sending the necessary information in advance, by e-mail, to the conference venue. The photo must be handed over on the first day of the conference no later than the next morning to be posted and can be judged fairly.

IMPORTANT DATES

- till 30. 8. 2023 Sending an **obligatory application and the title of the contribution**
- till 15. 9. 2023 Sending of the **II. Circular Letter**
- till 1. 9. 2023 Deadline for sending articles - **the full text of the article and advertisement** in the journal
- till 30. 9. 2023 **Registration fee** (charge for advertising and conference separate space)
- till 9. 10. 2023 Sending III. Circular Letter - **the final conference program**
- till 6. 10. 2023 **Sending photos** (max. 6 units in total) in the contest "Best picture material structure"
17. – 20. 10. 2023 **Conference venue**



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