

XXII International Student Scientific Session
„Materials and Technologies of XXI Century” (2021)

Regulations of the conference

- **General provisions**

- The organizers of the XXII International Student Scientific Session "MATERIALS AND TECHNOLOGIES OF XXI CENTURY", hereinafter referred to as the conference, are: the Faculty of Materials Engineering of the Silesian University of Technology, Department of Advanced Materials and Technologies, "MATER-TECH" Student Science Club (main organizer), "TECHNOMAT" Student Science Club and Faculty of Materials Engineering of Silesian University of Technology, hereinafter referred to as the Organizers.
- The conference is addressed to all students and PhD students from Polish and foreign research centers whose scientific activities fit in the thematic scope of the conference (see Chapter III "Conference subject scopes").
- In order to conduct the conference, the Organizers appoint the Scientific Committee, the Organizing Committee and the Competition Committees.
- The Scientific Committee of the conference consists of senior researchers from the Faculty of Materials Engineering of the Silesian University of Technology. This committee oversees the meritoric issues of the conference.
- The Conference Organizing Committee consists of members of the "MATER-TECH" Student Scientific Club, as well as representatives of PhD students, the authorities from the Department of Advanced Materials and Technology, and the authorities from the Faculty of Materials Engineering of the Silesian University of Technology. The Conference Organizing Committee appoints the Competition Committees, divides the submitted papers thematically - in accordance to the attached reviews and the regulations of the conference - and considers possible appeals of conference participants.
- Competition Committees supervise the course of proceedings in sections and: evaluate the submitted papers, announce the final results for individual sections, grant and award competition prizes.

- **Aims of the conference**

- Exchange of knowledge and experience in the field of Materials Engineering and related fields.

- Establishing and maintaining relationships between students and PhD students from various universities.
- Developing interests and competences as well as acquiring knowledge in the field of planning and conducting scientific experiments as well as analysis and interpretation of obtained results.
- Emphasizing the role of new materials and technologies in the modern world.
- Popularization of the scientific issues among pre-academic youth.

- **Conference subject scopes**
 - materials engineering,
 - metal materials,
 - ceramic materials,
 - plastics,
 - composite materials,
 - heat treatment and plastic processing of metals,
 - founding,
 - materials technologies,
 - materials joining technologies,
 - materials testing,
 - materials recycling,
 - environment protection,
 - biomedical engineering and biotechnology,
 - physics, chemistry, solid state physicochemistry,
 - functional materials, nanomaterials,
 - management and production engineering,
 - computer aid in industrial processes and materials engineering,
 - and other related topics.

- **Forms of participation and rules of presentation**

- Forms of participation:
 - Multimedia presentation - this form of participation includes the presentation of the results of scientific research in the form of a multimedia presentation in front of the relevant Competition Committee (MS Power Point or Prezi) - max. time of presentation: 10 min. Multimedia presentation sessions will be held in remote mode – using **ZOOM communicator**.
 - Presentation in form of video recording - this form of participation includes the presentation of the results of scientific research in the form of a 3-minute video recording sent before the conference (see schedule) to be reviewed by Competition Committee. Language of the recording may be either English or Polish. Participants presenting in form of video recording permit publication of the recording by Organizers and agree to all regulations concerning copyright and personal data protection described in section VII of this regulations.

Participants declare their preferences as to the form of presentation during registration. In the event of significant organizational reasons, the organizer may propose a change in the form of presentation.

- Regardless of the number of authors of the presented paper (or published article), only the presenting author is considered to be a participant in the conference. The presenting author is evaluated and can be awarded. No team performances are acceptable.
 - Conference publication with ISBN number will be issued as a part of the conference (in electronic form). Each article planned to be published in a conference publication should be sent together with the review prepared by a senior researcher who is not the co-author of the article, in accordance with Annex 1 to the regulations. Abstracts do not require attachment in form of a review. Further information regarding conference publication have been included in section VI.
 - Presentations of the papers will be scheduled in the following sections: „Materiały i Technologie 1” (Polish-language), „Materiały i Technologie 2” (Polish-language), „Materials and Technologies” (English-language), „Video Presentation Section” (Polish and English). The organizer reserves the right to temporarily change the number/names of sections in the event of significant organizational reasons.
 - The selection of papers for the sections will be carried out by the Organizers based on the applicants' preferences and substantive verification.
 - The relevant Competition Committees will evaluate the submitted articles and performed presentations according to the criteria set out in Annexes 1 and 2.
- **Conference schedule**
 - *15.03.2021 r. – 23.04.2021 r.* – registration on the conference website.

- *15.03.2021r. – 07.05.2021r.* – sending abstracts for publication in a conference book.
 - *01.03.2021r. – 14.05.2021r.* – sending full texts of articles (and reviews), for publication in a conference book.
 - *15.03.2021r. – 17.05.2021r.* – sending presentations in form of 3- minute recordings
 - To *21.05.2021r.* – confirmation by the Organizers of qualifying the presentation to the proper section (see below).
 - *28.05.2021r.* – the XXII International Student Scientific Session "MATERIALS AND TECHNOLOGIES OF XXI CENTURY".
- **Publications and prizes**
 - All submitted abstracts and full-text articles submitted together with a positive review will be published in the form of an electronic monograph bearing the ISBN number. Decision whether to submit full article or abstract is up to participant. The monograph will be divided into two sections, first including abstracts, second including full articles. Formatting guidelines for abstract and full article are included in Appendix 3.
 - All participants will receive commemorative diplomas, being a certificate of participation in the conference.
 - In each of the sections of oral presentations („Materiały i Technologie 1”, „Materiały i Technologie 2”, “Materials and Technologies”) prizes will be awarded for the first place and a single distinction award for each section. In the video presentation section prizes will be awarded in the same way – one prize for first place and one distinction prize.
 - Additionally, Organizers provide special award for the best full article of the conference, which will be chosen by Dean of Faculty of Materials Engineering of Silesian University of Technology.
- **Personal data and rules concerning copyright**
 - Applicant submitting materials for publication in monograph declares permission for Organizers to publish the materials and Applicant’s affiliation data sent to Organizers alongside the materials and declares that materials sent to publication are not considered intellectual property of any third-party (of people not being authors of the materials). Authors retain full copyright of their materials and Organizers do not restrict further use of the materials published by Authors.
 - Recording submitted to „Video Presentation Section” of the conference is considered to be intellectual property of its authors. Organizers do not restrict its use by authors. Organizers oblige applicant to include two elements in the recording:
 - information about name and affiliation of authors, in graphic and/or phonic form,

- declaration, that contents of the recording do not infringe copyright of any third-party (of people not being authors of the recording), in graphic and/or phonic form.
Submission of the recording by Applicant to Organizers is tantamount to declaration that contents of the recording do not infringe any third-party copyright.
- **Selected organizational information**
 - The application should be sent via the electronic applet which is available at: <https://sesja.mater.tech/en>
 - Article and review should be sent via the e-mail at: sesja.matertech@gmail.com
 - The presentation should be sent via e-mail at: sesja.matertech@gmail.com
 - The expected presentation time is a maximum of 10 minutes. The presentation should be performed using MS PowerPoint or Prezi. It is also advised to consider all necessary preparations due to the form of remote presentation by ZOOM communicator.
 - Any questions please direct to the Organizers:
 - Coordinators of the conference: matertech.polsl@gmail.com.
 - Main coordinators of the conference: dr hab. inż. Mateusz Koziół prof. P.Ś. (e-mail: Mateusz.Koziol@polsl.pl), inż. Magdalena Malczewska (e-mail: malczewska53@o2.pl).

Organizers of the conference

Appendix 1:

Review of the article

Criteria	Number of awarded points	Maximum number of points
Innovative character of the topic		0-3 pt.
Introduction to the topic - selection and analysis of sources		0-3 pt.
Graphic and aesthetic quality of the article		0-3 pt.
Methods applied in the study		0-3 pt.
Analysis of the results		0-4 pt.
Clarity and explicitness of the conclusions		0-4 pt.
The attractiveness of the content (in general)		0-5 pt.
Meritoric quality (general)		0-5 pt.
Total amount of the points		0-30 pt.

Reviewer name:

**Appendix 2:
Rate for the presentation**

Criteria	Number of awarded points	Maximum number of points
Introduction to the presented issue		0-2 pt.
Introducing aims of the study		0-5 pt.
Description of the methodology and research		0-3 pt.

tools		
Presentation of the results		0-3 pt.
Clarity and explicitness of the conclusions		0-5 pt.
Readability of presented informations		0-4 pt.
Graphic and aesthetic quality of the presentation		0-3 pt.
Correctness of language and pronunciation		0-2 pt.
Contact with the auditorium		0-2 pt.
A look of the presenting person		0-1 pt.
Total amount of the points		
		0-30 pt.

Appendix 3:

Formatting guidelines for publications

- **Abstract form**

Article form for XXII International Student Scientific Session „Materials and Technologies of XXI Century (Times New Roman, 14 pt., centered)

Piotr Olesik^{1,*}, Magdalena Malczewska¹, Mateusz Koziol¹
(Times New Roman, 11 pt., centered)

Scientific supervision: dr hab. inż. Mateusz Koziół, prof. PŚ

Silesian University of Technology, Faculty of Materials Engineering, Department of Advanced Materials and Technologies,
ul. Krasińskiego 8, 40-019 Katowice
* piotr.olesik@polsl.pl
(Times New Roman, 10 pt., centered)

Abstract (Times New Roman, 11 pt., bold)

Each submitted article should include abstract consisting of 200-300 words, describing examined problem, used materials and/or methods, as well as research results. We advise, that your submissions should not exceed established length. (Times New Roman, 10 pt., justified)

Keywords: 4-5 keywords

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- **Full article form**

Article form for XXII International Student Scientific Session „Materials and Technologies of XXI Century” (Times New Roman, 14 pt., centered)

Piotr Olesik^{1,*}, Magdalena Malczewska¹, Mateusz Koziół¹
(Times New Roman, 11 pt., centered)

Scientific supervision: dr hab. inż. Mateusz Koziół, prof. PŚ

Silesian University of Technology, Faculty of Materials Engineering, Department of Advanced Materials and Technologies,
ul. Krasińskiego 8, 40-019 Katowice
* piotr.olesik@polsl.pl
(Times New Roman, 10 pt., centered)

Introduction and the rest of the titles (Times New Roman, 11 pt., bold)

- Article should consist of following parts: introduction (or literature review), materials and methodology (or part regarding planning of the experiment), results and results discussion, summary, bibliography.

- Article text should be justified, **article contents should not exceed 6 pages** of justified text with figures and tables.
- Normal margins (2,5 cm left, right, top and bottom).
- **Pages should not be numbered.**
- Line spacing 1,5, font Times New Roman 10 pt., no indentations or spacings before and after paragraphs.
- Mathematical formulas should be presented in form of images (figures). All figures should be of proper quality and formatting, preceded by an empty line and centered. **All figures and tables should be referenced in text.**
- Table cells width should be fitted to values inside them, header row and first column should be **bold**. Spacing in tables 1,0, font Times New Roman, 10 pt. Tables should be preceded by an empty line, table should be aligned to right margin.
- First author of the article should be the person presenting the paper.
- It is required to declare scientific supervisor of students or PhD students who are the authors of the article (in the line „Scientific supervision”); scientific supervisor can (but does not have to) be co-author of the article.
- It is required to attach review to the article; the review has to be made by a senior researcher; reviewer can not be co-author of the article. Reviewer can be scientific supervisor of the authors.
- In case of questions or difficulties with fulfilling editorial guidelines please contact us directly.

Tab. 1. Example of table and table description formatting (Times New Roman, 10 pt., italic)

	Fe	Ti	C	N
Stop 1	99%	>1%	0,08%	0,1%
Stop 2	98%	>1%	0,5%	0,6%



Fig. 1. Example of figure description formatting (Times New Roman, 10 pt., italic)