

Instructions for the preparation of an Archives of Foundry Engineering paper

J.P. Nowak ^{a,*}, A. Orlov ^b

^a Department of Foundry, Silesian University of Technology, Towarowa 7, 44-100 Gliwice, Poland

^b Department of Materials Science, University of Winchester, Finish Road, Winchester, Hampshire 119, UK

*Corresponding author. E-mail address: january.nowak@polsl.pl

Received XXXXX 2008; accepted in revised form XXXXX 2008

Abstract

Please take into consideration the fact the full text of an abstract should contain no more than 1000-2000 characters (including spaces). In this chapter put your information how are the objectives achieved, what was the main method(s) used, what is the approach to the topic etc. Please put the information what are the main conclusions. What are the suggestions for future research? What practical implications are identified? One of the most important question you have to answer in this box is what is original value of the paper and are the method used novel? Polish authors should place title and abstract in Polish at the end of the paper (1000-2000 characters - including spaces).

Keywords: Please provide up to five keywords which express the principal topics of the paper (according to the classification being in force so far). First two keywords must be selected from the chosen set given in the further part of this instruction called "Scope".

1. Introduction

The paper should begin with the introduction in which the state-of-the-art of the issue concerning the paper will be presented generally and concisely. It is necessary to quote references taking into consideration the remarks included in the section "References". It is necessary to present the aim of works included in the paper and clearly emphasise the originality of solutions and content-related approach to the issue worked out and described by authors. Exemplary section headings and range of the subsequent sections of the paper are given roughly which we wish you to adopt during the preparation of your paper.

2. Description of the approach, work methodology, materials for research, assumptions, experiments etc.

In this section it is necessary to present in details assumptions and course of own researches to such an extent that a reader could repeat those works if he was going to confirm achieved results. In short papers those information should be given in as short a version as possible.

2.1. Title

The paper title should precise clearly and in details its subject matter and should have no more than 10 words (articles are not counted).

Table 1.

Editorial requirements

No	Item	Explanation
1.	Paper size	Please use non-standard format (205 x 280) without page numbering. Only this paper size will be accepted.
2.	Length	The paper must have 4 or 6 pages and exceptionally only after the previous agreement with the Conference Organisers can have other amount of pages.
3.	Margins /Columns	Total text width: 17.7 cm; Pages: Maximum length: 21.8 cm; top margin 3.0 cm; bottom margin: 3.2 cm; left and right margins 1.4 cm; Columns: each column 8.45 cm wide with 0.8 cm middle margin do not begin a new section directly at the bottom of a page, but transfer the heading to the top of the next column; you may exceed the length of the text area by one line only in order to complete a section of text or paragraph.
4.	Page layout	The main body of the text should be left and right justified. Please remember about the 'fine-tuning': Do not end the page with a heading; do not start a page with an incomplete line; do not underline any part of the text.
5.	Fonts and line spacing	The 9 pt Times New Roman font in 1.0 line spacing is required
6.	Title	The title should have no more than 10 words (articles are not counted) and situated in two lines and centre-justified Title of the paper (26 point, bold, Times New Roman), Authors' initial and surname^a (11 point, bold, Times New Roman) and the name of ^a Department, University, address City, Country, (each 10 point, Times New Roman).
7.	Abstract	Please provide a brief abstract (9 points) and the abstract itself should contain no more than 1000-2000 characters (including spaces). Please write it concisely and clearly. The abstract should reflect only what appears in the original paper. The word Abstract should be written in the bold style (14 point) Polish authors should place title and abstract in Polish at the end of the paper.
8.	Keywords	The words Keywords (9 points, each beginning with a big letter and separated by semicolon)
9.	Style	Section headings (14 points, bold, Times New Roman), subsection headings (12 points, bold, Times New Roman) should be left justified. Before section headings use two blank spaces and before subsection headings use two blank spaces. The creation of sub-subsections is not foreseen. Table and figure headings (9 points) should be numbered consecutively and centre-justified
10.	Colour	Papers are printed as black and white.

2.2. Format

The paper should be prepared according to the requirements provided in Table 1. Please pay attention to the fact that the subsection should be not shorter than 0.5 column.

2.3. Tables

Tables should be presented in the form shown in Table 1. They should be arranged throughout the text **but do not put the table at the first page**, preferably being included on the same page as they are first discussed. They should have a self-contained caption and be positioned in flush-left alignment with the text margin within the column. If they do not fit into one column they may be placed across both columns in which case place them at the top or at the bottom of a page.

2.4. Figures

Figures should be presented as in Figure 1. They should be clearly displayed by leaving at last single line of spacing above and below them.

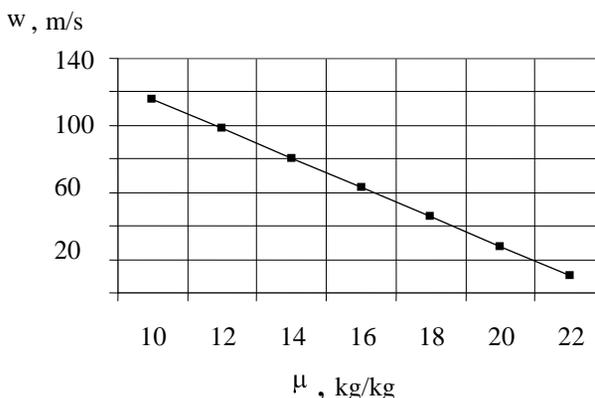


Fig. 1. Good quality figure with clear lettering

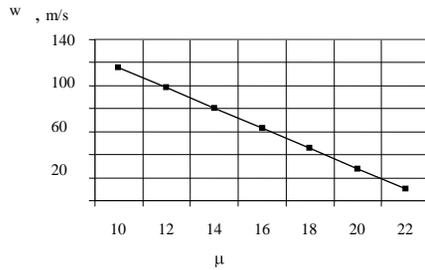


Fig. 2. Bad quality, distorted figure; lettering is too small

When placing a figure at the top of the page, the top of figure should be at the same level as the bottom of the first text line. All notations and lettering should be no less than 2.5 mm high. The use of heavy black and/or colour bold lettering should be avoided as they will look unpleasantly dark when printed. They also must be located close to the first reference to them in the text and numbered consecutively. A figure caption should be placed immediately below the figures. Photographs and figures should be prepared in colour at min. 300 dpi resolution. Please do not use patterns in vector graphics. It is required to prepare them in Corel Draw in TIFF or JPEG format (prepared in MS Word are not accepted). Please remember that they cannot be reduced or enlarged after placement in MS Word application, because they lose the image quality

Tables and figures placed across both columns should begin and end the page.

2.5. Equations

Equations should be placed flush-left with the text margin of the column and should be preceded and followed by one blank line.

$$w_k = 16,76 + 270 \cdot p_1^2 + 698,42 \cdot p_4 \quad (1)$$

If they are numbered make sure that they are numbered consecutively. Put the numbers in parentheses flush with the right-hand margin level with the last line of the equation.

3. Description of achieved results of own researches

3.1. General remarks

In that section it is necessary to present achieved results of own researches in details e.g. researches or calculations illustrating them in details and legibly by pictures, diagrams, photos e.. metallographic ones, results, calculations, tables etc. and giving in details casual and result relations between stated facts confirming or excluding data known from the literature. That section should have a character of a scientific discussion, although in order to do that the separate section can be created and in the given one only the information about

achieved results of researches can be included. In short papers you should rather limit yourself to a discussion.

3.2. Scope

Thematic scope of papers is given below:

Theory of Crystallization, Innovative Foundry Technologies and Materials, Product Development, Solidification Process, Application of Information Technology to the Foundry Industry, Quality Management, Environment Protection, Composites, Wear Resistant Alloys, Metallography, Heat Treatment, Mechanical Properties, Automation and Robotics in Foundry, Transport Systems in Foundry, Pneumatic Conveying in Foundry Industry, Surface Treatment, Non-Destructive Testing, Castings Defects.

4. Conclusions

It is necessary to present clearly the main conclusions from the whole paper. It is required to present them in a few points after the general conclusion. The author's achievements and originality of research and the authors' input in the undertaken subject matter and value of study should be emphasised. Practical application and possible directions of further works can be pointed out.

Acknowledgements

Acknowledgements should be placed before references.

References

- [1] W. Kurz, D. J. Fisher, Fundamentals solidification, Trans. Tech. Publ. Second Edition, London–Paris, 1984.
- [2] J. Gawroński, J. Szajnar, The conditions of close-grained structure formation in castings of solidification with magnetic field, Acta Metallurgica Slovaca, vol. 4, No. 2 (1998) 224–230.
- [3] E. Fraś, Crystallization of metals, WNT, Warsaw, 2003 (in Polish).
- [4] N.F. Dean, A. Mortensen, M.C. Flemings, Microsegregation in cellular solidification, Met. and Mater. Trans. A 25A (1994) 2295–2301.
- [5] M. Kondracki, J. Gawronski, Identification of some structural components in fixture brasses, Archives of Foundry vol. 5, No. 15 (2005) 204–209 (in Polish).
- [6] L.A. Dobrzański, J. Mikuła, D. Pakuła, J. Kopač, M. Soković, Cutting properties of the ceramic tool materials based on Si_3N_4 and Al_2O_3 coated with PVD and CVD process, Proceedings of the 12th Scientific International Conference „Achievements in Mechanical and Materials Engineering” AMME’2003, Gliwice – Zakopane, 2003, 249–252.

References should be collected at the end of your paper. Please do not begin them on a new page unless this is absolutely

necessary. They should be listed in the order in which they are cited in the text.

Citation of reference should be made within square brackets. Please write full titles of Journals and papers.

The list of references should include positions mainly in English however, if they are not written in English their titles should be written in English transliteration, and in the bracket please put a language of the original e.g. (in Polish).

No less than 30% of the cited works should include the ones published in the Archives of Foundry. One should not cite more than 25% of papers of his/her own authorship or co-authorship. It is necessary to pay attention that among literature references the positions from the year of the publication and from the year before the publication should be mentioned (no less than 20%).

If possible, equalize columns on last page.

(FOR POLISH AUTHORS ONLY)

Instrukcja przygotowania artykułu do Archiwum Odlewnictwa

Tytuł artykułu (12pt bold)

Streszczenie (12pt bold)

Pełny tekst streszczenia powinien zawierać 1000 – 2000 znaków (wliczając odstępy). Treść streszczenia powinna odpowiadać na pytania: jakie są przesłanki opracowania lub podjętych badań? Jak osiągnięto opisywane cele? Należy wymienić główne metody badawcze użyte w opracowaniu. Opisać zakres tematyczny opracowania. Wyjaśnić co wynika z przeprowadzonej analizy, dyskusji oraz uzyskanych wyników. Jakie są główne wnioski? Jakie są założenia badawcze do dalszych prac lub zastosowania praktyczne? Co stanowi o oryginalności opracowania? Jakie nowości zawarto w artykule? Co stanowi wartość opracowania?

Papers submitted in other way will not be accepted.