**T H E S S A L O N I K I GREECE**

**10th EUROPEAN SLAG CONFERENCE 8th-11th October 2019 **

**Slag based products – best practices for Circular Economy**

**Instructions for Authors
Conference Proceedings
(to be published as EUROSLAG Publication on Data stick)**

**Dear Authors**

Read this guide before preparing your manuscript for inclusion in Conference proceedings. It is designed to cover the steps of manuscript preparation that are necessary to insure uniformity and continuity of the ready production. These guidelines must be followed when preparing your paper for publication.

If you have any questions, or need assistance with the preparation of your manuscript, please contact with EUROSLAG secretary at info@euroslag.org.

**Writing instructions**

The size of your typeface should be set at **12 points**. The typeface should be **ARIAL**. Use **1½ spacing** in the document and **grouped style**. Each paragraph should start at the left-hand margin, and is followed by a **12 pt space**.

Configure the sheet paper to size A4 (210 x 297 mm) with white background and the margins:

top 2,5 cm left 2,5 cm head line 1,25 cm
bottom 2,0 cm right 2,5 cm bottom line 1,25 cm

Make sure to keep text, figures and tables within the margins (see Examples or use this document).

Your illustrations must have a resolution of at least 300 dpi when they are included in the document and all type in graphs and figures must be large enough to read.

Use SI units for consistent measurement references. Please differentiate between wt.-%, mol‑% or Vol.-%. Use a non-breaking space between number and unit. Justify right and left margins.

Your paper should **not** exceed **10 pages** including the reference list.

Contents

Your paper should contain at least:

* Title
* Author(s), affiliation(s), address(es)
* Abstract
* Introduction
* Body of the paper
* Conclusion
* References

Title

The paper title should be in upper case letters (capitals) 14 pt, bold. It should be preceded by the authors' names and followed by the affiliations. A blank line of space should be put between author(s) and title, and title and affiliations (see Example A). Insert another blank line before the abstract.

The first page should only contain the title, author(s), affiliation(s) and abstract.

Headings

A suitably-divided text enables easier reading. We suggest consecutively numbered first-level subheadings in lower case letters (initial cap) **12 pt**, bold and placed flush left on a separate line with no blank line between the heading and the text. Second-level subheadings, initial cap/lower case letters 12 pt, should be underlined and placed flush left on a separate line, also without a blank line between heading and text. If third-level subheadings are necessary, use lower case italic 12 pt.

Tables, figures and equations

*Tables*

Place the tables centered, as close as possible to their reference. Number consecutively with numerals and put the title centered below the table (see Example B). Please refer to Table 1, Table 2 etc., in the text. Please make sure that the typeface size used in the table is sufficient! Use single spacing. Distance above and below the table text should be 3 pt.

If the table exceptionally cannot be contained within the margins, place the table vertically (sideways) for better treatment of the information. This is an exclusive treatment for table placement and no text should appear on this page.

*Figures*

The figures should be consecutively numbered and each figure should be captioned. The caption should be placed below the figure (see Example C). As with tables, figures should be placed centered, as close as possible to the appropriate text. If you scan figures into your document, make sure they have a resolution of at least 300 dpi, and remember that all figures have to be of good quality**.** Please refer to Figure 1, Figure 2 etc., in the text.

In order to guarantee a consistent appearance it is helpful to define first an empty table with only one single field. That field should be 15 cm wide (automatic height). It should have a frame (single 1 pt line). Into the field you may copy your figures and pictures. These objects have to be centred. The figure is preceded and followed by a **6 pt space**.

*Equations*

All equations should be typed and separated from the text by one line of space above and below. They should be numbered consecutively in parentheses at the right-hand margin, in line with the last line of the equation as seen in the example below.

*CaO + H*2*O → Ca(OH)*2 (1)

Please do not use "position frames" to fix any objects in your text. Avoid light grey shadings.

References

All text references should be consecutively numbered and referred to in square brackets [1]. Complete citations should appear at the end of the paper in the "References" section, using a single-spaced format. References should provide readers with enough information to find the cited material (see Example D). Please use the automatic reference function of your text program. Use a 1,25 cm tab stop between No. and text. Each citation is followed by a 6 pt space before the next item.

Pagination

Number the pages on the right side of the footer (Arial 12 pt).

**Closing date for manuscript**

Please refer to the Conference website for updates regarding submission deadlines.

Authors are also kindly requested to submit an additional pdf file to make easier the editorial work in cases of doubt.

**Presentation material**

The conference facilities allow presentation with PC (multimedia). Powerpoint© presentations are preferred. Your final presentation is to be send by September 30th, 2019, to info@euroslag2019.com. Do not forget to add movies you may have linked to your presentation.

**EXAMPLE A - PAPER (title page)**

Aimo Hiltunen and Rita Hiltunen

**TREATMENT OF SLAGS - A PART OF SUSTAINABLE STEELMAKING**

SKJ-companies Ltd, Kirkkokatu 28 B, FIN-92100 Raahe, Finland

##### Abstract

The world's production of steel, about 900 million tonnes in recent years, entails the generation around 400 million tonnes of co-products, solid waste and sludge. The quantities of these materials and their compositions indicate that environmental loading from the steel industry is above all a matter of volume, although steel as such is a fairly environmentally acceptable product. More than 80 % of the co-products arising from steel production are slags, the further processing of which into marketable products has been an object of increasing interest throughout the steel producing world.

The properties of slags vary according to the main processes of iron and steelmaking and the possibilities for influencing these properties at the time when the slags are generated are therefore highly restricted, in spite of the fact that they are of extreme importance as far as utilization is concerned. The ways of influencing the properties of slag products are restricted mostly to the mechanical treatment of cooled slags and the modification of slags in a molten state. This paper discusses the current situation regarding the utilization of various co-products in the steel industry and the practices involved in the treatment of slags in order to obtain profitable products.

**EXAMPLE B - Tables**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **wt.-%** | **1** | **2** | **3** | **4** | **5** | **6** | **7** |
| CaO | 39,7 | 35,0 | 53,8 | 55,8 | 36,6 | 50,5 | 50,0 |
| SiO2 | 35,5 | 30,7 | 11,8 | 14,5 | 41,8 | 9,5 | 10,0 |
| MgO | 11,6 | 16,6 | 2,4 | 1,3 | 9,6 | 2,0 | 8,0 |
| Al2O3 | 9,4 | 11,9 | 1,5 | 1,2 | 2,5 | 35,5 | 29,5 |
| S | 1,5 | 2,5 | 0,1 | 0,1 | 0,2 | 0,2 | 0,3 |
| Ti | 1,1 | 1,2 | 0,6 | 1,1 | 2,8 | 0,7 | 0,7 |
| Mn | 0,4 | 0,1 | 2,9 | 1,0 | 1,3 | 0,9 | 0,7 |
| Fetot. | 0,4 | 0,1 | 17,8 | 14,7 | - | 0,9 | 0,7 |
| P | - | 0,0 | 0,4 | 0,3 | - | 0,0 | 0,0 |

 1: Raahe blast furnace slag 5. Raahe desulphurisation slag
 2: Koverhar blast furnace slag 6. Raahe ladle treatment slag 1
 3: Raahe steel slag 7. Raahe ladle treatment slag 2
 4: Koverhar steel slag

Table 1: Chemical components of Finnish slags

**EXAMPLE C - Figures**

|  |
| --- |
|  |

Figure 3: Example

###### EXAMPLE D - REFERENCES

Your text uses e. g. [[[1]](#endnote-2), [[2]](#endnote-3)] and [[[3]](#endnote-4)].

###### References

1. [] Steel Statistical Yearbook, IISI 2003 [↑](#endnote-ref-2)
2. [] http://minerals.usgs.gov/minerals/pubs/commodity/iron\_&\_steel\_slag/
islagmyb02.pdf [↑](#endnote-ref-3)
3. [] Genet, M.: Slag usage around the world - Opportunities and Challenges
2nd European Slag Conference, Düsseldorf 2000, Euroslag Publication No.1,
pp. 23-35 [↑](#endnote-ref-4)