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Abstract

Click here and insert a concise and factual abstract of this paper. It should consist of one paragraph of 100-300 words. The abstract should state briefly the purpose of the research, the principal results and major conclusions. An abstract is often presented separately from the article, so it must be able to stand alone. For this reason, References should be avoided. Also, non-standard or uncommon abbreviations should be avoided, but if essential they must be defined at their first mention in the abstract itself.

Keywords: Type your 3-5 keywords here, separated by semicolons, using American spelling and avoiding general and plural terms and multiple concepts (avoid, for example, 'and', 'of'). These keywords will be used for indexing purposes.

Nomenclature

u_θ	velocity in the direction of (m/s)
A	radius of (m)
B	position of
C	further nomenclature continues down the page inside the text box
<i>Greek symbols</i>	
γ	stoichiometric coefficient
δ	boundary layer thicknesses(m)
<i>Subscripts</i>	
r	radial coordinate

1. Main text

If symbols are used extensively, a nomenclature list arranged alphabetically, with Greek, subscript and superscript symbols listed separately, should be provided. Put a nomenclature above the main text if necessary, in a box with the same font size as the rest of the paper. Otherwise all symbols should be identified when first used in the text. The unit of the nomenclatures should be clarified following the description text. Authors are expected to use the SI system of units. Use Mathtype software to edit nomenclatures with Greek characters. Here introduce the paper, and the paragraphs continue from here and are only separated by headings, subheadings, images and formulae. The section headings are arranged by numbers, bold and 10 pt. Here follows further instructions for authors.

1.1. General guidelines for the preparation of your text

Avoid hyphenation at the end of a line. Symbols denoting vectors and matrices should be indicated in bold type. Scalar variable names should normally be expressed using italics. Weights and measures should be expressed in SI units. Please title your files in this order 11thAOSFST_authorslastname.pdf.

Paper length: For ordinary authors, the **maximum** length of any full paper contribution will be 8 printed pages. For invited speakers, the **maximum** length of any full paper contribution will be 12 printed pages.

For this Procedia the files must be in MS Word format only and should be formatted for direct printing. Figures and tables should be embedded and not supplied separately. Please make sure that you use as much as possible normal fonts in your documents.

Special fonts, such as fonts used in the Far East (Japanese, Chinese, Korean, etc.) may cause problems during processing. To avoid unnecessary errors you are strongly advised to use the 'spellchecker' function of MS Word.

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As indicated in the template, papers should be prepared in single column format suitable for direct printing onto A4 paper (8.3in x 11.7in/210mm x 297mm). Do not number pages on the front, as page numbers will be added separately for the preprints and the Proceedings. Leave a line clear between paragraphs.

Bulleted lists may be included and should look like this:

- First point
- Second point
- And so on

1.2. Structure

Follow this order when typing manuscripts: Title, Authors, Affiliations, Abstract, Keywords, Main text (including figures and tables), Acknowledgements, References, and Appendix. Collate acknowledgements in a separate section at the end of the article and do not include them on the title page, as a footnote to the title or otherwise.

Please do not alter the formatting and style layouts which have been set up in this template document. Whenever necessary, use the tool of Format Brush in the Word to copy the styles of any section.

1.3. Section headings

Section headings should be left justified, with the first letter capitalized and numbered consecutively, starting with the Introduction. Sub-section headings should be in capital and lower-case italic letters, numbered 1.1, 1.2, etc, and left justified, with second and subsequent lines indented. You may need to insert a page break to keep a heading with its text.

2. Main text II

2.1. Tables

All tables should be numbered with Arabic numerals. Headings should be placed above tables, center justified. Leave one line space between the heading and the table. Only horizontal lines should be used within a table, to distinguish the column headings from the body of the table, and immediately above and below the table. Tables must be embedded into the text and not supplied separately. Below is an example which authors may find useful.

Table 1. An example of a table

An example of a column heading	Column A (<i>t</i>)	Column B (<i>T</i>)
And an entry	1	2
And another entry	3	4
And another entry	5	6

If table footnotes should be used, place footnotes to tables below the table body and indicate them with superscript lowercase letters. Be sparing in the use of tables and ensure that the data presented in tables do not duplicate results described elsewhere in the article.

2.2. Author Artwork

All figures should be numbered with Arabic numerals (1,2,...n). All photographs, schemas, graphs and diagrams are to be referred to as figures.

Make sure you use uniform lettering and sizing of your original artwork. Only use the following fonts in your illustrations: Arial, Courier, Times, Symbol.

Line drawings should be good quality scans or true electronic output. Low-quality scans are not acceptable. Figures must be embedded into the text and not supplied separately. Lettering and symbols should be clearly defined either in the caption or in a legend provided as part of the figure.

Figures should be placed at the top or bottom of a page wherever possible, as close as possible to the first reference to them in the paper.

All figures should be center aligned. The figure number and caption should be typed below the figures in 8 pt, left justified, with subsequent lines indented.

Artwork has no text along the side of it in the main body of the text. However, if two images fit next to each other, these may be placed next to each other to save space, see Fig 1.

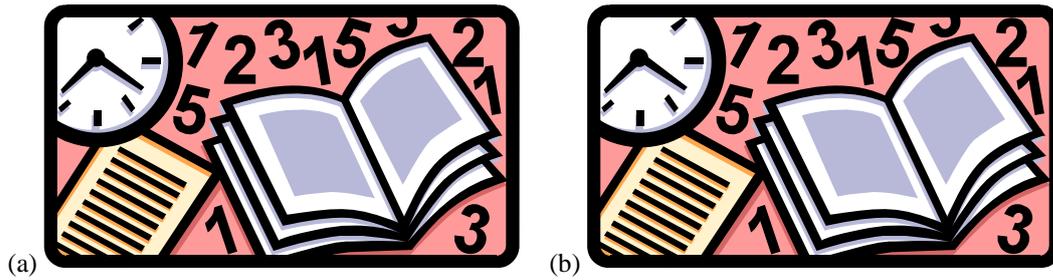


Fig. 1. Illustration of pressure particles for (a) upstream inlet condition in high temperature fields and (b) downstream moving water front in low temperature field.

2.3. Footnotes

Footnotes should be avoided if possible. Necessary footnotes should be denoted in the text by consecutive superscript letters. The footnotes should be typed single spaced, and in smaller type size (8 pt), at the foot of the page in which they are mentioned, and separated from the main text by a short line extending at the foot of the column.

2.4. Equations and formulae

Equations and formulae should be typed by Mathtype software Copyrighted by Design Science, Inc. and numbered consecutively with Arabic numerals in parentheses. The equations and formulae should be center aligned, while the numberings should be right hand aligned. Present simple formulae in the line of normal text where possible and use the solidus (/) instead of a horizontal line for small fractional terms, e.g., x/y . In principle, variables are to be presented in italics. Powers of e are often more conveniently denoted by exp. Use fraction exponents instead of root signs. Refer to equations in the text as "Eq. (1)," etc., or "Equation (1)," etc.

$$\chi_r = \dot{Q}_{rad}'' / (\dot{Q}_{rad}'' + \dot{Q}_{conv}'') \quad (1)$$

$$\rho = \frac{\bar{E}}{J_c(T = \text{const.}) \cdot \left(P \cdot \left(\frac{\bar{E}}{E_c} \right)^m + (1 - P) \right)} \quad (2)$$

They should also be separated from the surrounding text by one line space.

2.5. Construction of references

References should be added at the end of the paper, and its corresponding citation will be added in the order of their appearance in the text. Authors should ensure that every reference in the text appears in the list of references and vice versa. References should be indicated in the text by full-size numbers in brackets, e.g., [1], [2-3]. The actual authors can be referred to, but the reference citation(s) must always be given. Some examples of how your references should be listed are given at the end of this template in the 'References' section, which will allow you to assemble your reference list according to the correct format and font size.

The numbered reference list at the end of the article should conform to the following style:

- Journal articles:

[1] Deal, B., Grove, A., 1965. General Relationship for the Thermal Oxidation of Silicon, *Journal of Applied Physics* 36, p. 3770.

[2] Fachinger, J., 2006. Behavior of HTR Fuel Elements in Aquatic Phases of Repository Host Rock Formations. *Nuclear Engineering & Design* 236, p. 54.

- Book:

[3] Quintiere, James G., 2006. *Fundamentals of Fire Phenomena*, John Wiley & Sons. Ltd, Chichester, U. K.

You may also include the page or page range (optional).

- Edited Book:

[4] Clark, T., Woodley, R., De Halas, D., 1962. Gas-Graphite Systems, in "*Nuclear Graphite*" R. Nightingale, Editor. Academic Press, New York, p. 387.

- Symposium Proceedings:

- [5] Samochine, D., Boyce, K., Shields, J., 2005. "Investigation into staff behaviour in unannounced evacuations of retail stores - Implications for training and fire safety engineering," Fire Safety Science - Proceedings of the 8th International Symposium, International Association for Fire Safety Science, pp. 519-530.
- [6] Fachinger, J., den Exter, M., Grambow, B., Holgerson, S., Landesmann, C., Titov, M., Podruzhina, T., 2004. "Behavior of spent HTR fuel elements in aquatic phases of repository host rock formations," 2nd International Topical Meeting on High Temperature Reactor Technology. Beijing, China, paper #B08.
- **Internal Reports:**
- [7] Deep-Burn Project: Annual Report for 2009, Idaho National Laboratory, Sept. 2009.

Acknowledgements

These and the Reference headings are in bold but have no numbers. Text below continues as normal. Collate acknowledgements in a separate section at the end of the article before the references and do not, therefore, include them on the title page, as a footnote to the title or otherwise. List here those individuals who provided help during the research (e.g., providing language help, writing assistance or proof reading the article, etc.).

References

- [1] Deal, B., Grove, A., 1965. General Relationship for the Thermal Oxidation of Silicon, Journal of Applied Physics 36, p. 3770.
- [2] Fachinger, J., 2006. Behavior of HTR Fuel Elements in Aquatic Phases of Repository Host Rock Formations. Nuclear Engineering & Design 236, p. 54.
- [3] Quintiere, James G., 2006. Fundamentals of Fire Phenomena, John Wiley & Sons. Ltd, Chichester, U. K.
- [4] Clark, T., Woodley, R., De Halas, D., 1962. Gas-Graphite Systems, in "*Nuclear Graphite*" R. Nightingale, Editor. Academic Press, New York, p. 387.
- [5] Samochine, D., Boyce, K., Shields, J., 2005. "Investigation into staff behaviour in unannounced evacuations of retail stores - Implications for training and fire safety engineering," Fire Safety Science - Proceedings of the 8th International Symposium, International Association for Fire Safety Science, pp. 519-530.
- [6] Fachinger, J., den Exter, M., Grambow, B., Holgerson, S., Landesmann, C., Titov, M., Podruzhina, T., 2004. "Behavior of spent HTR fuel elements in aquatic phases of repository host rock formations," 2nd International Topical Meeting on High Temperature Reactor Technology. Beijing, China, paper #B08.
- [7] Deep-Burn Project: Annual Report for 2009, Idaho National Laboratory, Sept. 2009.

Appendix A. An example appendix

Authors including an appendix section should do so after References section. Multiple appendices should all have headings in the style used above. They will automatically be ordered A, B, C etc.

A.1. Example of a sub-heading within an appendix

There is also the option to include a subheading within the Appendix if you wish.