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First Name SURNAME\*(a), Smith K. ANTON(a), Jones BERNARD(b)

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(b) Organization 2
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\*Corresponding author: e-mail

Keywords: 5 to 6 keywords should be provided

1. INTRODUCTION

This document explains and demonstrates how to prepare the THERMAG X 2022 extended abstract. All abstracts should be written in English. Extended abstracts can contain figures, tables, formulations or images. The extended abstract should be preferably written in MS Word format in single-spaced and 11 font size calibri. Extended abstract **should not exceed 2 pages** including the references and be submitted by uploading PDF file using the online THERMAG X 2022 extended abstract submission site by May 16 2022. Any manuscript having excess pages will not be published.

The introduction should give a statement of the problem and a clear outline of the paper.

1. METHODOLOGY

Titles of all main sections should be 12-points, centred, and in boldface capital letters. A blank space 18-points (not a blank line) should be placed above the titles. A blank space 6-points (not a blank line) should be placed below the titles. Keep your text and graphic files separate until after the text has been formatted and styled. Do not use hard tabs, and limit use of hard returns to only one return at the end of a paragraph. Do not add any kind of pagination anywhere in the paper. Do not number text heads-the template will do that for you. The main body of the paper will consist of one or more main sections describing experimental designs, test procedures, theoretical consideration, and results.

* 1. Sub-sections

Sub-section headings should be in lower-case, 11-points, bold letters and justified left. A blank space 12-points (not a blank line) should be placed above the titles. A blank space 3-points (not a blank line) should be placed below the titles. Please adhere to the following order: Title, Author(s) information, Introduction, Main Text (one or more sections and subsections, as appropriate), Conclusions (as appropriate), Acknowledgements, Nomenclature, References. The text is to be single-spaced. Remove all blank lines between paragraphs in the main text between headings (if necessary). The pre-defined paragraph styles include all necessary blank spaces. The template is prepared in Times New Roman. Use full justification for all text. The footer will contain the conference information and page number.

* 1. Margins

The text area is to be 17.0 cm wide by 25.2 cm high. Table 1 presents the margin settings for A4 size paper (21 x 29,7 cm). It is important to adhere to these margins to ensure that your manuscript prints properly on the paper format from the Conference Proceedings.

Table 1. Page margins for manuscripts submitted to the Nth IIR Conference

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* 1. Tables and Figures

Each table should be numbered (Table 1, Table 2, etc.), with the caption being placed above the table. Each figure should be numbered (Figure 1, Figure 2, etc.), with the caption being placed below the figure. Extended abstract should contain a maximum of 1 figure and 1 table. Images and graphs used should be a high quality (minimum 240 ppi), and not blurry or pixelated. If not your own work, permission should be obtained for use of copyrighted material from other sources (including those from Internet).



Figure 1: Monthly electricity consumption

* 1. Equations and Symbols

Use the “Equation Editor” whenever possible. Equations should be centred, with the equation number flush with the right margin. If you are using the “IIR equation” style, this is accomplished by inserting tab characters before the equation number. Equations should be cited in the text with its number, for example, “…as shown in Eq. (1)”. Equations should be separated from the text above and below by a blank space, already predefined in the style.

Symbols used in equations should be explained directly within the paragraph they first appear or in a nomenclature section at the end of the manuscript. Symbols for physical quantities should be *italicized*. Exceptions are symbols for established dimensionless groups (e.g. Reynold s Number Re), which should not be italicized. An example equation would be the ideal gas law.

 Eq. (1)

where *p* is pressure in kPa, *T* is temperature in K, *V* is molar volume in m3.mol–1, and *R* is the gas constant. If few equations are used, the definition of symbols may follow each equation. Otherwise, the manuscript shall include a Nomenclature where all symbols and abbreviations are explained. Use the international system of units (SI). Avoid use of the solidus (/) but present quantities in the denominator always with negative exponents. A separate nomenclature section should be used when equations are used extensively. The units used should be given, if appropriate. For the Nomenclature section only, a two-column format may be used, if desired, to save space.

1. CONCLUSIONS

The Conclusions section should list the major conclusions of the work and summarize the significance of the paper as clearly and concisely as possible. Further works can be also stated in the conclusions.

ACKNOWLEDGEMENTS

A short section may acknowledge special assistance, such as financial aid, help of guiding technical committees, individuals, or other groups.

NOMENCLATURE

|  |  |  |  |
| --- | --- | --- | --- |
| *p* | pressure (kPa)  | *R* | molar gas constant (8.314472 J×mol–1×K–1) |
| *T* | temperature (K) | *V* | molar volume (m3×mol-1) |

REFERENCES

Bibliographical sources should be cited by giving the last name(s) of the author(s) and the year of publication. The year should always be in parentheses, whether or not the name of the author(s) is or depending of the context the name of the author(s) and the year in parentheses. The citations for Herbe and Lundqvist (1997) and Pearson (1996) provide examples for the format for a journal article and conference proceeding, or the citations could be (Herbe and Lundqvist, 1997) and (Pearson, 1996). In the case of a source with three or more authors, the citation could be Hirschfelder et al. (1967) or (Hirschfelder et al., 1967), which also provides an example citation for a book, only the name of the first author is cited in the text, but all authors are listed in the entry in the References section. The References section should be alphabetized by the last name of the first author.

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For instance:

Duminil, M., 1995. Principes de la production du froid. In: Côme, D., Ulrich, R., La chaîne du froid – Le froid au service de l'homme, Hermann, Paris, 33-144.

Herbe, L., Lundqvist, P., 1997. CFC and HCFC refrigerants retrofits. Int. J. Refrigeration 20(1), 49-54.

Janna, S.W., 1986. Engineering Heat Transfer. PWS Publishers, Boston, 769 p.

Pearson, S.F., 1996. Uses of Hydrocarbon Refrigerants. Proceedings of the IIR Conference on Applications for Natural Refrigerants, Aarhus, Denmark, IIF/IIR, 439-446.