

Template for Paper Publication in the Proceedings of the XIII DINAME (Helvetica 16pt)

First Author¹, Second Author², and Third Author¹ (Helvetica 9pt Bold)

¹ First institution name and complete address for correspondence (Helvetica 9pt)

² Second institution name and complete address for correspondence (Helvetica 9pt)

Abstract: This document works as a template and provides basic instructions for your manuscript preparation, using MS Word. Please, send any questions related to the manuscript format to committee@diname2009.com.br. (Times New Roman 10pt Italic)

Keywords: keyword1, keyword2, up to 5 (Times New Roman 10pt Bold Italic)

NOMENCLATURE (HEADING 1, HELVETICA 11PT BOLD ALL CAPS)

A = total frontal area of the air flow,
area, m²

b = pin height, m

D = pin diameter, diameter, m

f = friction factor in the pinned
annulus, friction factor,
dimensionless

H = annular opening, m

Greek Symbols

ΔP = pressure drop, Pa

ΔT = mean temperature difference, K

α = angle between two adjacent pins
in the same cross-section, deg.

η = pin efficiency, pinned region
efficiency, dimensionless

Subscripts

a relative to air

e relative to exit

f relative to pin fin

I relative to inlet

K relative to wall thermal resistance

L relative to the number of
transversal rows or to
longitudinal pitch

1 relative to the internal diameter of
the internal tube

2 relative to the external diameter of
the internal tube

3 relative to the internal diameter of
the external tube

INTRODUCTION (HEADING 1, HELVETICA 11PT BOLD ALL CAPS)

(Normal, Times New Roman 10pt) This introduction contains the basic information for the authors concerning the manuscript format. The proceedings of the XIII DINAME will be published in CD-ROM, in Portable Document Format (PDF). Therefore, submitted papers must be formatted strictly according to these instructions to ensure quality and standardization of the conference proceedings. The present file can be used as a template for MS Word users. To do so, use 'Save as' command to save this file under your paper ID name, e.g., "DIN09-0001.doc". The paper Title and Authors headings can be updated by double-clicking the heading fields. Also, please update the 'Title' and 'Author' fields under the file properties window. Consider a Short Title (up to 90 characters) for the Title field to keep headings length to a single line.

As a basic hint, try to keep as much as possible the format presented here. Avoid the use of empty lines. There are styles dedicated to tables, figures and equations; they are explained, in detail, in the next sections.

Text content and layout (Heading 2, Helvetica 11pt Bold)

The manuscript should be written in English. Pages should NOT be numbered. Each page is formatted as DIN A4 with 2cm for the margins (except 1st page top margin of 3cm). The Headings are different for the first page, and after for even and odd pages. The first page heading should be alike this one, while other headings are active fields that read data from the file properties, reason why they need to be updated. The Paper Title, Authors' data and Abstract have specific formatting. The Authors names and addresses should be grouped and numbered to avoid repetition.

The Abstract should be prepared in a single maximum 300 words describing: objectives, methodology and the paper main conclusions. It should contain neither formulae nor reference to bibliography. Abstracts of all accepted papers will be included in a printed volume and distributed to the symposium participants, whilst the full paper text will be published in the proceedings CD-ROM.

The style dedicated for general text is Normal. The body of the text must be justified. The first line of each paragraph must be indented by 5mm. Sufficient information must be provided directly in the text, or by referencing to widely available published work. Footnotes should be avoided. All symbols and notations must be defined either in the text or at the (optional) Nomenclature section right after the Abstract. Physical quantities must be expressed in S.I. (metric) units. Mathematical symbols appearing in the text must be typed using Italic style.

Bibliographic references should be cited in the text by giving the last name of the author(s) and the year of publication, according to the following examples: “Recent work (Smith and Farias, 1997)” or “Recently, Smith and Farias (1997)”. In the case of four or more authors, the form “Smith et al. (1997)” should be used. Two or more references having the same authors and publication year must be distinguished by appending “a”, “b”, etc., to the year of publication. For example: “Recent work (Smith and Farias, 1997a)”. Acceptable references include journal articles, numbered papers, dissertations, theses, published conference proceedings, preprints from conferences, books, submitted articles (if the journal is identified) and private communications. Internet sites can also be cited as references. References should be listed at the end of the paper according to instructions provided in section References.

In the following sub-sections other aspects concerned the text format such as, headings, equations, figures and tables are detailed.

Section Headers and Sub-headers (Heading 3, Helvetica 10pt Italic)

There are 3 levels of Headers (Heading 1, 2 and 3 already used in this text). They are not to be numbered. The Heading styles are justified. All headings are aligned to the left margin.

Mathematical Equations (Heading 3, Helvetica 10pt Italic)

Mathematic equations are set using a special ‘Equation’ style and the entire line of an equation should be defined using the same style. Do not use empty lines before and after an equation since it is already implemented in the style. Use one Tab to position the equation in the centre of the page, and another one to position the equation numbering.

$$\mathbf{M}\ddot{\mathbf{x}}(t) + \mathbf{C}\dot{\mathbf{x}}(t) + \mathbf{K}\mathbf{x}(t) = \mathbf{f}(t) \quad (1)$$

Arabic numerals must be used as equation numbers, enclosed between parentheses, right-aligned, as shown in the above example. Equations should be referred to either as “Eq. (1)” in the middle of a phrase or as “Equation (1)” in the beginning of a sentence. Symbols used in the equations must be defined immediately before or after their first appearance if they are not mentioned in the Nomenclature section, right after the Abstract.

Figures and Tables (Heading 3, Helvetica 10pt Italic)

There are dedicated styles for figures and tables. They should be numbered consecutively in Arabic numerals (1, 2, 3, etc.) and centered. They should have a caption (use the same style as in this template) and be placed as close as possible to their first reference in the text. Figures in the text should be referred to as “Fig. 1”, except at the beginning of a sentence, where “Figure 1” should be used instead. It is preferred that figures presenting technical data/results should have boundaries with scale indicators (tick marks), on all sides. Also, a legend for the data symbols should be inserted within the figure limits, associated to each curve label. Lettering should be large enough to be clearly legible as shown in Fig. 1. Colored figures are allowed, however try to keep your figures as much as possible understandable in case they are printed in Black & White, e.g. by changing curves’ style and/or markers, not only the color. Make sure that all black and white pictures, drawing or photos have a good contrast. Encapsulated Postscript (EPS) format should be preferred since they convert well to PDF files. In case of having photos, it is advised to use GIF format for those with few colors and JPEG format for those denser colored.

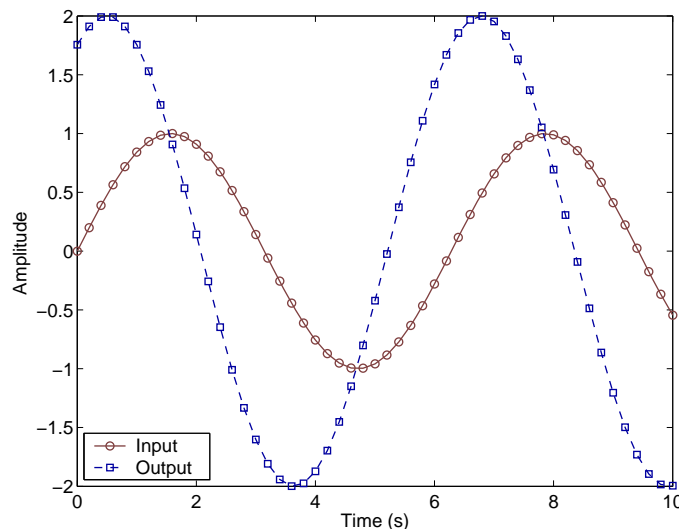


Figure 1 – Amplitude of the input and output signals. (Helvetica 9pt Bold Centered)

Try to place your figures ‘In line with text’. If it is not the default option in your MS Word you can right click you figure and verify under ‘Format Figure ...’, under the tab ‘Layout’ if the ‘Wrapping Style’ is indicating ‘In line with text’ as it can be seen in Fig. 2.

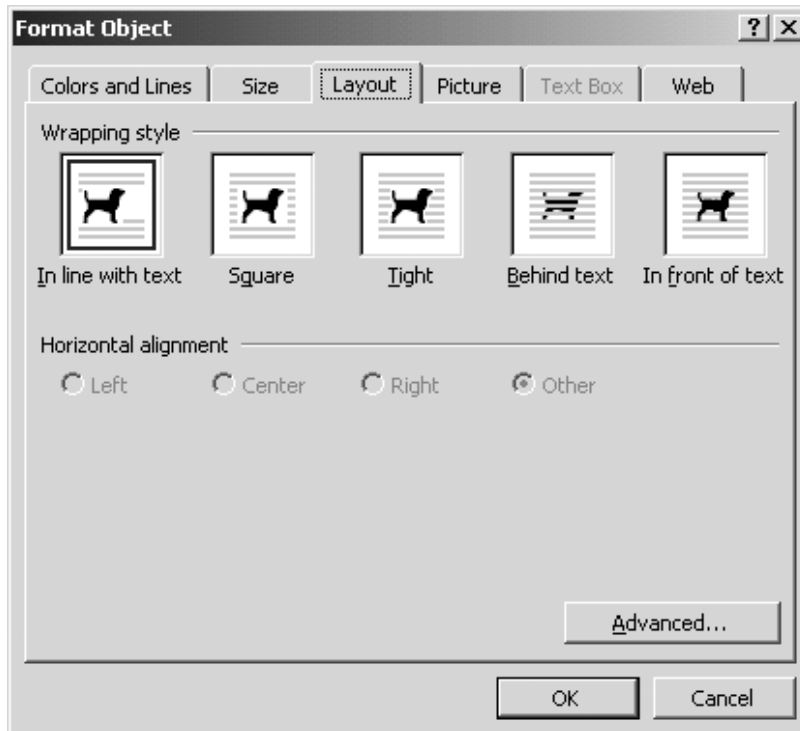


Figure 2 – Screen shot of MS Word Format Picture window. (Helvetica 9pt Bold Centered)

Tables must be referred to either as “Tab. 1” in the middle of a phrase or as “Table 1” in the beginning of a sentence. The tables themselves as well as their captions must be centered in the breadth-wise direction. Use ‘Table Text’ and ‘Table Title’ styles to format the tables (notice that they are automatically spaced from paragraphs). Units must be expressed in the S.I. (metric) system. Explanations, if any, should be given at the tables foot, not within the tables themselves. The style of table borders is left free; however an example is given in Tab. 1. The table caption should precede the table itself, and the style used is as for the figures.

Table 1 – Experimental results for flexural properties of CFRC-4HS and CFRC-TWILL composites. Span/depth ratio = 35:1. Average results of 7 specimens. (Helvetica 9pt Bold Centered)

Composite Properties	CFRC-TWILL	CFRC-4HS
Flexural Strength (MPa)	209 ± 10	180 ± 15
Flexural Modulus (GPa)	57.0 ± 2.8	18.0 ± 1.3
Mid-span deflection at the failure stress (mm)	2.15 ± 1.90	6.40 ± 0.25

GENERATION OF THE PDF FILE (HEADING 1, HELVETICA 11PT BOLD ALL CAPS)

The final version of the paper, in PDF format, should not exceed 10 pages and 1Mb. The file name should be that of your Paper ID, e.g. DIN09-0001.pdf. To avoid memory difficulties associated to big files use EPS, GIF or JPEG formats.

For those using MS Word, the PDF file generation can be either directly, if Adobe Distiller or the Adobe PDF Writer is available or through a Postscript file which will be converted to PDF in a later stage. In the second case, first you need to install a Postscript printer and use the option ‘Print to File’ to generate a Postscript file. The Postscript files can be converted to PDF, for example by using Ghostview (<http://www.cs.wisc.edu/~ghost/>). In order to avoid problems related to font types, it is recommended to use only Times New Roman, Symbol or Helvetica fonts in the entire document which means, figures, table, and captions, etc. If you do not succeed in generating a proper digital version of your PDF file, please do not hesitate in contacting us at committee@diname2009.com.br.

ACKNOWLEDGMENTS (HEADING 1, HELVETICA 11PT BOLD ALL CAPS)

This optional section must be placed before the list of references.

REFERENCES (HEADING 1, HELVETICA 11PT BOLD ALL CAPS)

The list of references must be introduced as a new section, located at the end of the paper. The first line of each reference must be aligned at left. All the other lines must be hanging by 1cm from the left margin. All references included in the reference list must be mentioned in the text. References must be listed in alphabetical order, according to the last name of the first author, as shown in the following examples:

- ABCM, 2004, "Journal of the Brazilian Society of Engineering and Mechanical Sciences", <http://www.abcm.org.br/journal/index.shtml>.
- Bordalo, S.N., Ferziger, J.H. and Kline, S.J., 1989, "The Development of Zonal Models for Turbulence", Proceedings of the 10th Brazilian Congress of Mechanical Engineering, Vol.1, Rio de Janeiro, Brazil, pp. 41-44.
- Coimbra, A.L., 1978, "Lessons of Continuum Mechanics", Ed. Edgard Blücher, S.Paulo, Brazil, 428 p.
- Clark, J.A., 1986, Private Communication, University of Michigan, Ann Harbor.
- Soviero, P.A.O. and Lavagna, L.G.M., 1997, "A Numerical Model for Thin Airfoils in Unsteady Motion", RBCM- J. of the Brazilian Soc. Mechanical Sciences, Vol.19, No. 3, pp. 332-340.
- Sparrow, E.M., 1980, "Forced Convection Heat Transfer in a Duct Having Spanwise-Periodic Rectangular Protuberances", Numerical Heat Transfer, Vol.3, pp. 149-167.

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