21st Australasian Fluid Mechanics Conference
Adelaide, Australia
10-13 December 2018

21st Australasian Fluid Mechanics Conference: Instructions to Authors Sample Paper

J. P. Denier[1], P. V. Lanspeary[2] and S. E. Norris[3]

[1]Department of Applied Mathematics
Adelaide University, South Australia 5005, Australia

[2]Department of Mechanical Engineering
University of Adelaide, Adelaide, South Australia 5005, Australia

[3]Department of Mechanical Engineering
University of Auckland, Auckland 1142, New Zealand

Abstract

Include a brief abstract here.

Introduction

The conference proceedings will be published from "camera-ready copy". For reasons of uniformity, all papers must adhere to the format as defined by the appropriate document template, the `afmc_art` class file together with this "template" paper.

The organising committee will accept papers formatted using either the LaTeX LyX or Microsoft Word templates available on the web at

`http://www.afms.org.au/21AFMC`

Particular attention should be given to the formatting style used in this "template". Papers which do not conform to this style will **NOT** be published.

For authors who use LyX to prepare a paper, this file serves as an "instructions to authors" and, together with the class file `afmc_art.cls` it is the document template for 21AFMC papers. LyX users may begin by editing this file.

Page limits

The page limit for contributed papers is four (4) pages. The page limit for invited papers is eight (8) pages. Papers which exceed this limit will be returned to the author(s) for shortening.

Title and Authors

The title should be in lower case with the first letter of major words capitalised. Avoid forcing a line-break unless absolutely necessary. Author affiliations should consist of "Department, Institution, City, State, Post-code, Country". Author affiliations should be indicated with a superscript digit.

Section Headings

And Subsection Headings

Section and subsection headings should be in lower case with the first letter of major words in upper case. Do not use subsubsections.

Figures and Tables

Figures and Tables should appear in the text near to where they are first referenced. They should be centred between the margins, and must not fall outside of the normal printed area of the page which is 170mm wide by 248mm high. The font size for all numbers and letters in the figure, as it appears in your paper, must be at least as large as that for the running headings. Put table captions below the table, and figure captions below the figure. Refer to figures and tables as in "figure 1, table 1".

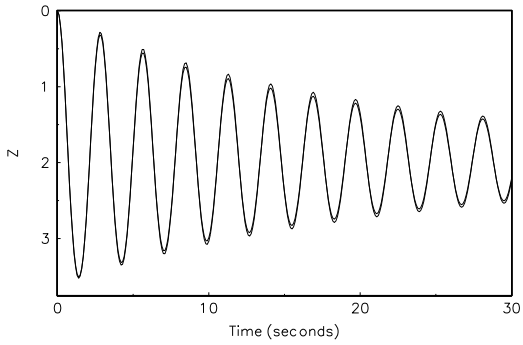

Figure 1: This figure was saved as an encapsulated Postscript (.eps) file. It is also centred between the margins. Because the bounding box of this figure is fairly tight some space has been added above the figure. This is not a good example of a figure; the lines should be thicker and a bigger and bolder font used.

Problem A		
40×40	80×80	160×160
129	258	520
0.179	1.844	8.527
2.8E-6	4.56E-6	4.5E-6

Table 1: This is an example of a table that spans a single column. Note that it is centred.

The proceedings will be distributed in softcopy format so colour figures and illustrations can be included. However, please try, where possible, to ensure that the details are still clear in black and white copies.

You have the option of having the tables and figure span a single column (e.g. figure 1 and table 1) or both columns (figure 2 and table 2). In all cases, make sure that the figure and all labels are still legible and that font sizes on figures closely match the body text.

Equations

Equations will be centred with a number flush against the right margin as in

$$\rho c_p \frac{\partial T}{\partial t} = S - k\frac{\partial^2 T}{\partial x^2} \tag{1}$$

and this equation would be referred to as "equation (1)".

Some care should be taken in ensuring that long Mathematical

Figure 2: This figure has been inserted into this document as a portable network graphics (.png). It is the conference logo and is a good example of a coloured raster image inserted into the manuscript. It is also centred between the margins, and spans both columns. Because the bounding box of this figure is fairly tight some space has been added above the figure.

Problem A			Problem B		
40×40	80×80	160×160	40×20	80×40	160×80
129	258	520	102	193	387
0.179	1.844	8.527	0.148	0.700	4.468
2.8E-6	4.56E-6	4.5E-6	3.1E-6	3.2E-6	4.2E-6

Table 2: This is an example of a table that spans both columns. Note that it is centred.

expressions are correctly split over lines. For example,

$$\rho c_p \frac{\partial T}{\partial t} = S - k\frac{\partial^2 T}{\partial x^2} - k\frac{\partial^2 T}{\partial y^2} - k\frac{\partial^2 T}{\partial z^2} \quad (2)$$

should be used. If necessary use $\times$ at the end of a line to indicate that the multiplication is to be carried over to the next line.

Miscellaneous

- Try to avoid isolated lines of text where, for example, a paragraph spills over a page. Often a slight rewording resolves the problem.
- Avoid wasted white space around figures or a last page that is almost empty.
- Use quotation marks correctly, as in “correct”, not ”incorrect”.
- Use a hyphen (-) for compound words (two-dimensional), an en-dash to link numbers, nouns or names (Navier--Stokes, pages 27--85), and an em-dash to link clauses or sentences---like this.
- Use a $\times$ to represent multiplication in text, not x.
- Resist the temptation to use footnotes.

Format for References

The references are listed in alphabetical order (by first author) and formatted as shown by the examples at the end of this paper. They may be referred to by the reference number alone or by the author(s) together with the reference number as in “is a book, [3] is an article in a proceedings, [4] is an edited book, and reference Cooley and Tukey [1] is an article in a journal.” Multiple citations should be written as [2, 4]. This LyX template uses the bibliography style file `afmc.bst` (generously contributed by Andrew Kiss of RSES, ANU).

Conclusions

You should include a brief conclusion section which summarizes the results of your paper.

Acknowledgements

Any acknowledgements should appear immediately before the references. This template was modified from the one for 20th AFMC in Perth.

References

[1] Cooley, J. W. and Tukey, J. W., An Algorithm for the Machine Computation of Complex Fourier Series, *Math. Comp.*, **19**, 1965, 297–301.

[2] Goosens, M., Mittlebach, F. and Samarin, A., *The LaTeX Companion*, Addison-Wesley, 1994.

[3] McCormick, S., Multilevel Projection Methodology, in *Computational Techniques and Applications: CTAC93*, editors D. Stewart, H. Gardner and D. Singleton, World Scientific, 1994, 54–57.

[4] Rosenhead, L., editor, *Laminar Boundary Layers*, Oxford Clarendon Press, 1963.