

TITLE OF THE PAPER - MASHCON7

Wim Van Hoydonck, Flanders Hydraulics, Belgium
Mustrum Ridcully, Unseen University, Ank-Morpork
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SUMMARY

The summary should be a brief description of the scope of the paper. When copying text from other documents into the template make sure that you copy paragraph by paragraph and do not copy the last and first word of a paragraph. Type these words manually.
(maximum 150 words)

NOMENCLATURE

CFD	Colourful Fluid Dynamics	
EFD	Erroneous Fluid Dynamics	
FH	Flanders Hydraulics	
WL	Waterbouwkundig Laboratorium	
h	Water depth	m
T	Draft	m
β	Drift angle	°
δ	Rudder angle	°
η	Dynamic viscosity	m ² s

1 INTRODUCTION

This is normally the first section in the main body of the text. Sections will be numbered automatically when using the right formatting tag. All main headings should be in bold capitals.

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Each section may then have sub-headings. Sub-headings should be typed in capitals (but not in bold).

Sub-sections may be further divided up as above. Subsidiary headings should used mixed upper/lower case (title case) as above, but are not in bold.¹

2 LATEX TEMPLATE

This section contains some specific info about the use of the $\text{\LaTeX}$ template. If you experience issues, send an email to wim.vanhoydonck@mow.vlaanderen.be with info@shallowwater.be in CC.

2.1 COMPILING

Compile with $\text{\LaTeX}$. Template has been tested in Overleaf, see additional comments in § 2.10 to get it to work.

2.2 CREATING FIGURES

There should normally be no more than 10 graphs/10 tables/10 diagrams/10 illustrations/10 photographs per paper.

¹This is a long footnote. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

2.2 (a) Figure format

Make sure figures with lines use vector graphics. This is supported with both pdf and eps file formats (maybe others as well). Photos should be either png or jpeg. Caption for figures should be placed after the figure, for tables, put them at the top.

2.2 (b) Colour

Coloured figures will be reproduced in full colour in the electronic and online versions of the proceedings.

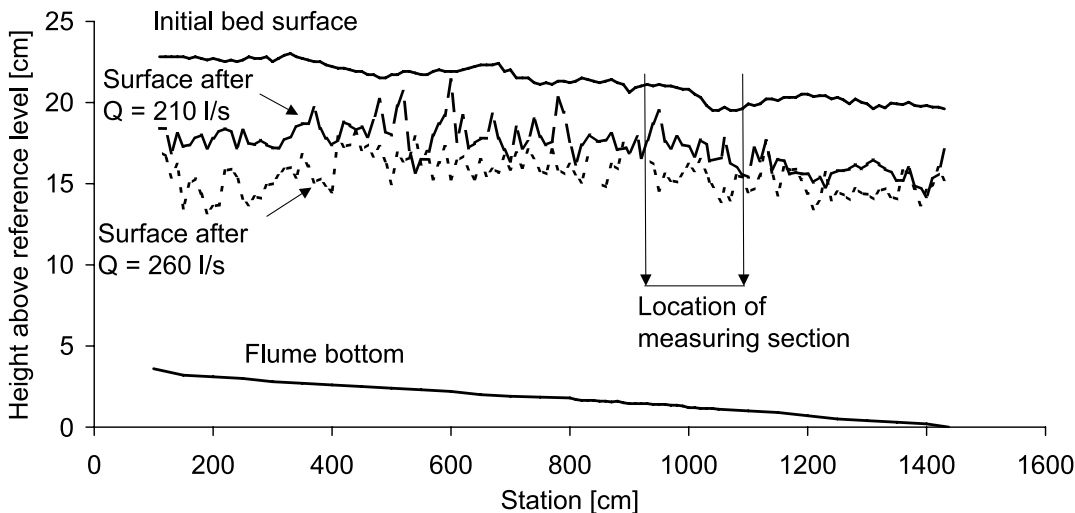


Figure 1: Caption of a typical figure, with enough text to shown what happens if the caption is longer than the width of the text. Some more text to get to that point.

2.3 TYPING TABLES

Use `\toprule`, `\midrule`, `\bottomrule` from `booktabs`, see for example Table 1.

Table 1: Short caption of a table.

header 1	header 2	header 3
cell 1	cell 2	cell 3
cell 4	cell 5	cell 6

2.4 LISTS

- Bullets should be used for lists, and not numbers, or letters.

I did not redefine (or disable) the `enumerate` environment, so if you use it, you still get numbers...

2.5 SYMBOLS

Greek and Latin symbols and abbreviations can be shown in a nomenclature list with the use of the `glossaries-extra` package that is loaded by the class file. Sorting is done externally, using `bib2gls`. The symbols are stored in a separate bibtex file (`symbols.bib` in this example), that is loaded in the preamble with a call to `\GlsXtrLoadResources`. The abbreviations are stored in a separate file (`abbreviations.bib`), similarly loaded in the preamble. In any good $\text{\LaTeX}$ editor, a build step can be added to execute `bib2gls`, as shown in Fig. 2 for Kile.

η , T , h , β , δ , WL (Waterbouwkundig Laboratorium), FH (Flanders Hydraulics), EFD (Erroneous Fluid Dynamics) and CFD (Colourful Fluid Dynamics) are some examples of symbols and abbreviations. The latter ones only contain the explanation at their first appearance: CFD.

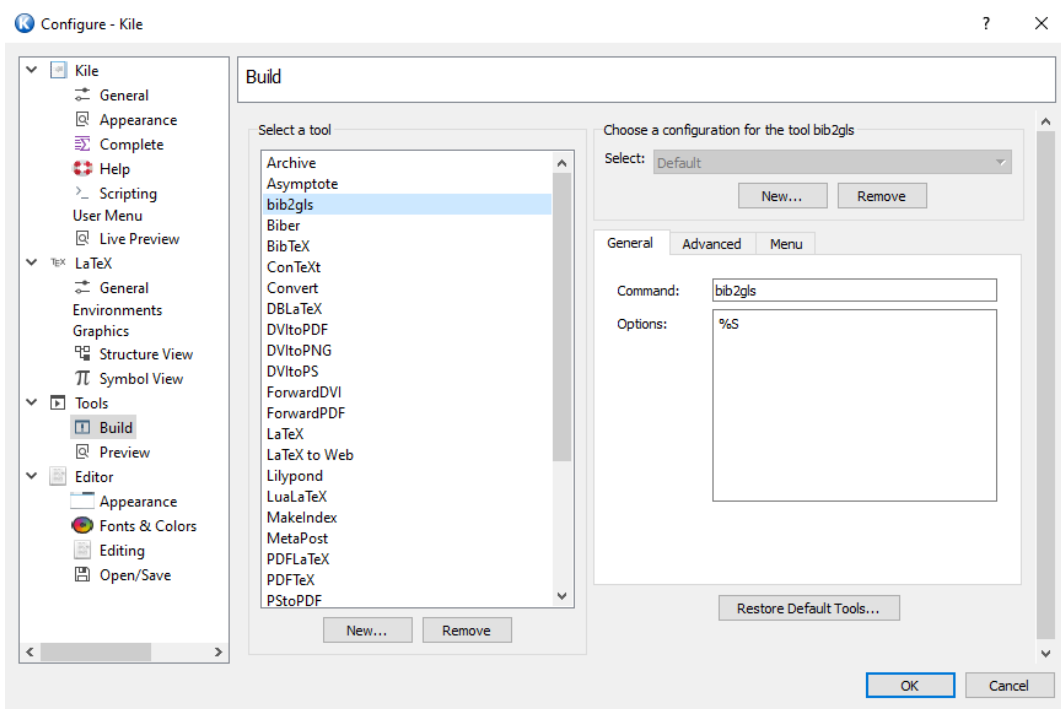


Figure 2: Adding a build step for bib2gls in Kile to sort the symbols and abbreviations.

2.6 NUMBERS

Use `\siunitx` package. Enclose numbers in `\num{}` to ensure that large ones are readable: 10 000 000 versus 10000000. When numbers appear together with a unit (i.e., a *quantity*), use the `\qty` command (or for older version: the `\SI` command). A velocity may look like this: 1.2345 m/s, 1.2345 $\frac{\text{m}}{\text{s}}$, 1.2345 m/s or even 1.2345 m s⁻¹.

2.7 REFERENCES

This $\text{\LaTeX}$ 2_ε template uses `biblatex` and `biber`, which are both part of standard $\text{\LaTeX}$ 2_ε distributions.

Reference style is author-year, and for most cases, `\textcite` or `\parencite` should be used to reference other publications, e.g.: (Van Hoydonck et al. 2018), Vantorre et al. (2017), Gourlay, Lataire, and Delefortrie (2016).

2.8 EQUATIONS

Equations are typeset with LatinModern-Math font. I tried Cambria (as in the Word template), which worked, but turned out to look very ugly to say the least.

This be ma bootiful equation:

$$(x + a)^n = \sum_{k=0}^n \binom{n}{k} x^k a^{n-k} \quad (1)$$

2.9 LIGATURES

Apparently, ligatures are possible in Word, but they don't show up in the Word template? Here, they look amazing: efficiency.

2.10 USING THIS TEMPLATE IN OVERLEAF

A custom makefile (`latexmkrc`) is included that can be used to compile this template on Overleaf. The makefile includes the `bib2gls` step to generate the nomenclature list. You should change the version of the TeXLive distribution to 2023, and compile using `XYTeX`, see Figure 3.

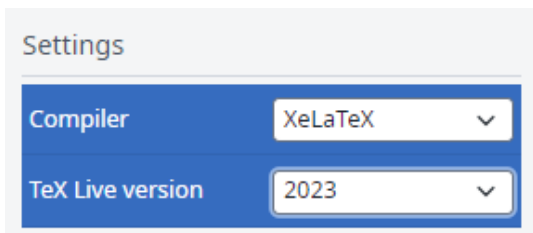


Figure 3: Overleaf settings for Compiler and TeX Live version compatible with bib2gls.

3 SUBMISSION REQUIREMENTS

All papers should be submitted in electronic form, normally in Microsoft Word format, but pdf format is allowed as well, as long as you used this $\text{\LaTeX}$ template to produce it.

Submissions should contain the full text, including inserted figures. Submissions less than 20MB should normally be forwarded by email. Submissions greater than 20MB should be sent by online services, such as wetransfer, etc.

Papers should not normally exceed 6000 words. Longer papers where the content justifies the extra length may exceptionally be published at the Conference Organizers' discretion.

4 ADDITIONAL INFORMATION

4.1 LIABILITY

Authors are responsible for obtaining security clearance as required. If they so wish, authors may add a disclaimer stating that the opinions expressed are solely those of the author.

In submitting papers, the authors agree that the paper will be published under Open Access License on the MASHCON website.

When submitting papers for publication, authors must state if the paper has been published before and where, or whether it is being considered for publication by some other publisher.

4.2 PAPER REVIEW

The papers will be reviewed by selected members of the International Scientific Committee. The decision on final acceptance or rejection of the paper will be taken based on the reviews. Acceptance may be conditional on changes to the paper being made before publication.

The papers should be written in clear English. Proofreading by native English speakers prior to submission is recommended.

4.3 COPYRIGHT TRANSFER AGREEMENT

After acceptance of the paper, every (co-)author must sign a Copyright Transfer Agreement, transferring copyright in the paper from the (co-)author to the publisher, and submit the original signed agreement with the final paper.

5 CONCLUSIONS

The main body of the text must end with the conclusions of the paper.

6 ACKNOWLEDGEMENTS

Brief Acknowledgements may be added.

7 REFERENCES

Gourlay, T P, E Lataire, and G Delefortrie, 2016. Application of potential flow methods to ship squat in different canal widths. In: Proceedings of the 4th International Conference on Ship Manoeuvring in Shallow and Confined Water with Special Focus on Ship Bottom Interaction, Hamburg, Germany, 23 to 25 May 2016 (4th MASHCON). Bundesanstalt für Wasserbau, pp. 146–155.

Van Hoydonck, W, S Toxopeus, K Eloot, K Bhawsinka, P Queutey, and M Visonneau, 2018. Bank effects for KVLCC2. In: Journal of Marine Science and Technology online fir. DOI: <https://hdl.handle.net/10.1007/s00773-018-0545-3>.
Vantorre, M, K Eloot, G Delefortrie, E Lataire, M Candries, and J Verwilligen, 2017. Maneuvering in shallow and confined water. In: Encyclopedia of Maritime and Offshore Engineering (EMOE). [S.n.]

8 AUTHORS BIOGRAPHY

Brief biographies are required for all authors²:

Wim Van Hoydonck is nautical researcher at Flanders Hydraulics and uses computers for what they were originally intended, i.e. do complicated computations. He studied Aerospace Engineering at Delft University of Technology, and prefers the use of $\text{\LaTeX}$ whenever possible, such as writing reports and peer-reviewed publications.

Mustrum Ridcully holds the current position of Archchancellor at Unseen University, the School of Wizardry in Ank-Morpork. He holds a seat on the Ank-Morpork council, where he acts as a magical advisor to the Patrician. Before becoming Archchancellor at Unseen University, he looked after his family's land.

Ponder Stibbons is head of Inadvisably Applied Magic, Praelector and Reader in Invisible Writings, the Master of Traditions, the Camerlengo of Unseen University, the keeper of Hex (the university's computer), and the right-hand man of Archchancellor Ridcully.

²For the last two, copied from: en.wikipedia.org/wiki/Unseen_University