Template for Preparing Your Submission to the American Society Of Civil Engineers (ASCE)

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7 ABSTRACT

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The abstract should be a single paragraph (150-175 words long) written in plain language and include a summary of the key conclusions of the manuscript. It should clearly state the purpose of the work, the scope of the effort, the procedures used to execute the work, and major findings. The abstract is the second most important online search discovery element, after the title. Authors should review the abstract to ensure that it accurately reflects the revised paper and should strive to include any applicable keywords that would likely be used during an online search. Mathematics and references are not permitted in the abstract and will be removed by the copyeditors.

15 INTRODUCTION

This template and class file "ascelike-new.cls" produce manuscripts that comply with the guidelines of the American Society of Civil Engineers (ASCE). It has been produced by Overleaf in conjunction with the ASCE, and is based on the unofficial "ascelike.cls" developed by Matthew R Kuhn.

This template provides guidance on how to prepare your manuscript according to the ASCE requirements, including details on how to use various LaTeX commands to achieve the appropriate formatting. Additional template options are given in Appendix II. If you have any questions about

this template, or need help with LaTeX, please contact Overleaf who can provide assistance as
 required.

Once your work is complete, please use the "Submit to ASCE" option in Overleaf to select the
 appropriate journal for your manuscript and follow the instructions to complete your submission.
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the ASCE Library website.

29 PREPARING YOUR MANUSCRIPT

30 Length

For most ASCE journals, the maximum number of words and word-equivalents is 10,000 for technical papers, 3,500 for technical notes, and 2,000 for Discussions and Closures. The editor may waive these restrictions to encourage manuscripts on topics that cannot be treated within these limitations.

To find the current number of words in your manuscript on Overleaf, please use the Word Count feature in the Project menu.

General Flow of the Paper

Sections of the article should not be numbered and use word headings only. Article sections
 should appear in the following order:

- Title page content (includes title, author byline & affiliation, abstract)
- Introduction

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- Main text sections
- 43 Conclusion
- Appendix(es)
- Acknowledgments
 - Disclaimers
- Notation list
- Supplemental Data

50 Title

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Titles should be no longer than 100 characters including spaces. The title of a paper is the first "description" of a paper found via search engine. Authors should take care to ensure that the title is specific and accurately reflects the final, post-peer reviewed version of the paper. Authors should try to include relevant search terms in the title of the paper to maximize discoverability online. Titles should not begin with "A," "An," "The," "Analysis of," "Theory of," "On the," "Toward," etc.

56 Author Bylines

⁵⁷ Under the title of the manuscript, the full name of each author and his or her affiliation and ⁵⁸ professional designation, if applicable, must be included. The following professional designations ⁵⁹ are currently acceptable for all journals: Ph.D., P.E., S.E., D.WRE, DEE, P.Eng., C.Eng., L.S., ⁶⁰ P.L.S., Dr.Tech., Dr.Eng., D.Sc., Sc.D., G.E., P.G., P.H., AICP, J.D.

Former affiliations are permissible only if an author's affiliation has changed after a manuscript has been submitted for publication. If a coauthor has passed away, include the date of death in the affiliation line. Any manuscript submitted without a separate affiliation statement for each author will be returned to the corresponding author for correction.

65 Gender-specific Words

Authors should avoid "he," "she," "his," "her," and "hers." Alternatively, words such as "author,"
 "discusser," "engineer," and "researcher" should be used.

68 First-person Usage

The use of first-person pronouns (I, we, my, our) should be avoided in technical material. The use of "the authors" or "this researcher" is preferred to first-person pronouns.

For papers with a single author, "the author" should be used to indicate actions or opinions.
Papers with multiple authors should use "the authors" to refer to collective actions or opinions.
Authors should use first-person pronouns only if absolutely necessary to avoid awkward sentence
construction.

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Footnotes and Endnotes

Footnotes and endnotes are not permitted in the text. Authors must incorporate any necessary
 information within the text of the manuscript.

Exception - Endnotes are only permitted for use in the *Journal of Legal Affairs and Dispute Resolution in Engineering and Construction*.

80 SI Units

The use of Système Internationale (SI) units as the primary units of measure is mandatory. Other units of measurement may be given in parentheses after the SI unit if the author desires. More information about SI units can be found on the NIST website.

84 Conclusions

At the end of the manuscript text, authors must include a set of conclusions, or summary and conclusion, in which the significant implications of the information presented in the body of the text are reviewed. Authors are encouraged to explicitly state in the conclusions how the work presented contributes to the overall body of knowledge for the profession.

B9 Data Availability Statement

When submitting a new and revised manuscript, authors are asked to include a data availability statement containing one or more of the following statements, with specific items listed as appropriate. Please include one or more of the statements below, deleting those which do not apply. This section should appear directly before the Acknowledgments section.

- Some or all data, models, or code generated or used during the study are available in a repository online in accordance with funder data retention policies (provide full citations that include URLS or DOIs)
- Some or all data, models, or code used during the study were provided by a third party (list items). Direct requests for these materials may be made to the provider as indicated in the Acknowledgements.

- Some or all data, models, or code generated or used during the study are available from the
 corresponding author by request (list items).
- Some or all data, models, or code generated or used during the study are proprietary or confidential in nature and may only be provided with restrictions (e.g. anonymized data)
 List items and restrictions.
- All data, models, and code generated or used during the study appear in the submitted article.
- No data, models, or code were generated or used during the study (e.g., opinion or data-less
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¹⁰⁹ Please also see the guidelines at: https://ascelibrary.org/page/dataavailability.

Acknowledgments

Acknowledgments are encouraged as a way to thank those who have contributed to the research or project but did not merit being listed as an author. The Acknowledgments should indicate what each person did to contribute to the project.

Authors can include an Acknowledgments section to recognize any advisory or financial help received. This section should appear after the Conclusions and before the references. Authors are responsible for ensuring that funding declarations match what was provided in the manuscript submission system as part of the FundRef query. Discrepancies may result in delays in publication.

118 Mathematics

All displayed equations should be numbered sequentially throughout the entire manuscript, including Appendices. Equations should be in the body of a manuscript; complex equations in tables and figures are to be avoided, and numbered equations are never permitted in figures and tables. Here is an example of a displayed equation (Eq. 1):

123

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$$E = mc^2 . (1)$$

Symbols should be listed alphabetically in a section called "Notation" at the end of the

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manuscript (preceding the references). See the following section for more details.

Notation List

¹²⁷ Notation lists are optional; however, authors choosing to include one should follow these ¹²⁸ guidelines:

129	• List all items alphabetically.
130	• Capital letters should precede lowercase letters.
131	• The Greek alphabet begins after the last letter of the English alphabet.
132	• Non-alphabetical symbols follow the Greek alphabet.
133	Notation lists should always begin with the phrase, "The following symbols are a

paper:"; acronyms and abbreviations are not permitted in the Notation list except when they are
 used in equations as variables. Definitions should end with a semicolon. An example Notation list
 has been included in this template; see Appendix I.

137 Appendices

Appendices can be used to record details and data that are of secondary importance or are needed to support assertions in the text. The main body of the text must contain references to all Appendices. Any tables or figures in Appendices should be numbered sequentially, following the numbering of these elements in the text. Appendices must contain some text, and need to be more than just figures and/or tables. Appendices containing forms or questionnaires should be submitted as Supplemental Data instead.

144 SECTIONS, SUBSECTIONS, EQUATIONS, ETC.

This section is included to explain and to test the formatting of sections, subsections, subsubsections, equations, tables, and figures.

Section heading are automatically made uppercase; to include mathematics or symbols in a sec tion heading, you can use the \lowercase{} around the content, e.g. \lowercase{\boldmath\$c^{2}\$}.

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used in this

149	An Example Subsection
150	No automatic capitalization occurs with subsection headings; you will need to capitalize the
151	first letter of each word, as in "An Example Subsection."
152	An example subsubsection
153	No automatic capitalization occurs with subsubsections; you will need to capitalize only the
154	first letter of subsubsection headings.
155	FIGURES AND TABLES
156	This template includes an example of a figure (Fig. 1) and a table (Table 1).
157	Figure Captions
158	Figure captions should be short and to the point; they need not include a complete explanation
159	of the figure.
160	Figure Files
161	Figures should be uploaded as separate files in TIFF, EPS, or PDF format. If using PDF format,
162	authors must ensure that all fonts are embedded before submission. Every figure must have a figure
163	number and be cited sequentially in the text.
164	Color Figures
165	Figures submitted in color will be published in color in the online journal at no cost. Color
166	figures provided must be suitable for printing in black and white. Color figures that are ambiguous
167	in black and white will be returned to the author for revision, and will delay publication. Authors
168	wishing to have figures printed in color must indicate this in the submission questions. There is a
169	fee for publishing color figures in print.
170	Table Format

The following is a guide to preparing tables as part of your submission

- Vertical rules should not be used in tables. Horizontal rules are used to offset column 172 headings at the top of the table and footnotes (if any) at the bottom of the table and to 173 separate major sections. 174 All columns must have a heading. Each table should have only one set of column headings 175 at the top of the table. Using additional column headings within the body of the table should 176 be avoided. 177 • Photographs, sketches, line art, or other graphic elements are not permitted in tables. Any 178 table that includes graphics must be treated and numbered as a figure. 179 • Highlighting and shading are also not permitted and will not be reproduced in print. Bold-180 face font should be used for emphasis sparingly. 181 • Equations are allowed in the table body, but should be avoided if possible. Numbered 182 equations are never allowed in tables. 183 • Tables should not be submitted in multiple parts (Table 1a, 1b, etc.). Tables with multiple 184
- parts should either be combined into one table or split into separate tables. 185
- 186

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SUPPLEMENTAL DATA 195

Supplemental Data is considered to be data too large to be submitted comfortably for print 196 publication (e.g., movie files, audio files, animated .gifs, 3D rendering files) as well as color 197

figures, data tables, and text (e.g., Appendixes) that serve to enhance the article, but are not
 considered vital to support the science presented in the article. A complete understanding of the
 article does not depend upon viewing or hearing the Supplemental Data.

Supplemental Data must be submitted for inclusion in the online version of any ASCE journal
 via Editorial Manager at the time of submission.

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Supplemental Data must be briefly described in the manuscript with direct reference to each item, such as Figure S1, Table S1, Protocol S1, Audio S1, and Video S1 (numbering should always start at 1, since these elements will be numbered independently from those that will appear in the printed version of the article). Text within the supplemental materials must follow journal style. Links to websites other than a permanent public repository are not an acceptable alternative because they are not permanent archives.

When an author submits supplemental materials along with a manuscript, the author must include a section entitled "Supplemental Data" within the manuscript. This section should be placed immediately before the References section. This section should only contain a direct list of what is included in the supplemental materials, and where those materials can be found online.

Descriptions of the supplemental materials should not be included here. An example of appropriate
 text for this section is "Figs. S1–S22 are available online in the ASCE Library (ascelibrary.org)."

227 REFERENCES, CITATIONS AND BIBLIOGRAPHIC ENTRIES

- ASCE uses the author-date method for in-text references, whereby the source reads as the last names of the authors, then the year (e.g., Smith 2004 or Smith and Jones 2004). A References section must be included that lists all references alphabetically by last name of the first author.
- When used together, ascelike-new.cls and ascelike-new.bst produce citations and the References section in the correct format automatically.

References must be published works only. Exceptions to this rule are theses, dissertations, and "in press" articles, all of which are allowed in the References list. References cited in text that are not found in the reference list will be deleted but queried by the copyeditor. Likewise, all references included in the References section must be cited in the text.

²³⁷ The following citation options are available:

- \cite{key} produces citations with full author list and year (Ireland 1954).
- \citeNP{key} produces citations with full author list and year, but without enclosing
 parentheses: e.g. Ireland 1954.
- \citeA{key} produces citations with only the full author list: e.g. (Ireland)
- \citeN{key} produces citations with the full author list and year, but which can be used
 as nouns in a sentence; no parentheses appear around the author names, but only around the
 year: e.g. Ireland (1954) states that . . .
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\citeyear{key} produces the year information only, within parentheses, as in (1954).

\citeyearNP{key} produces the year information only, as in 1954.

The bibliographic data base ascexmpl-new.bib gives examples of bibliographic entries for different document types. These entries are from the canonical set in the ASCE web document "Instructions For Preparation Of Electronic Manuscripts" and from the ASCE web-site. The References section of this document has been automatically created with the ascelike-new.bst

style for the following entrie	es:
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252	• a book (Goossens et al. 1994),
253	• an anonymous book (Moody 1988),
254	• an anonymous report using @MANUAL (Federal 1991),
255	• a journal article (Stahl et al. 2004; Pennoni 1992),
256	• a journal article in press (Dasgupta 2008),
257	• an article in an edited book using @INCOLLECTION (Zadeh 1981),
258	• a building code using @MANUAL (International 1988),
259	• a discussion of an @ARTICLE (Vesilind 1992),
260	• a masters thesis using @MASTERSTHESIS (Sotiropulos 1991),
261	• a doctoral thesis using @PHDTHESIS (Chang 1987),
262	• a paper in a foreign journal (Ireland 1954),
263	• a paper in a proceedings using @INPROCEEDINGS (Eshenaur et al. 1991; Garrett 2003),
264	• a standard using @INCOLLECTION (ASTM 1991),
265	• a translated book (Melan 1913),
266	• a two-part paper (Frater and Packer 1992a; Frater and Packer 1992b),
267	• a university report using @TECHREPORT (Duan et al. 1990),
268	• an untitled item in the Federal Register using @MANUAL (Federal 1988),
269	• works in a foreign language (Duvant and Lions 1972; Reiffenstuhl 1982),
270	• software using @MANUAL (Lotus 1985),
271	• two works by the same author in the same year (Gaspar and Koenders 2001a; Gaspar and
272	Koenders 2001b), and
273	• two works by three authors in the same year that only share the first two authors (Huang
274	et al. 2009a; Huang et al. 2009b).
275	ASCE has added two types of bibliographic entries: web-pages and CD-ROMs. A web-page

can be formated using the @MISC entry category, as with the item (Burka 1993) produced with the

following *.bib entry:

278	@MISC{Burka:1993a,
279	<pre>author = {Burka, L. P.},</pre>
280	<pre>title = {A hypertext history of multi-user dimensions},</pre>
281	<pre>journal = {MUD history},</pre>
282	year = {1993},
283	$month = \{Dec. 5, 1994\},\$
284	<pre>url = {http://www.ccs.neu.edu}</pre>
285	}

Notice the use of the "month" field to give the date that material was downloaded and the use of a
new "url" field. The "url" and month" fields can also be used with other entry types (i.e., @BOOK,
@INPROCEEDINGS, @MANUAL, @MASTERSTHESIS, @PHDTHESIS, and @TECHREPORT): for example,
in the entry type @PHDTHESIS for (Wichtmann 2005).

A CD-ROM can be referenced when using the @BOOK, @INBOOK, @INCOLLECTION, or @INPROCEEDINGS categories, as in the entry (Liggett and Caughey 1998). The field "howpublished" is used to designate the medium in the .bib file:

howpublished = {CD-ROM},

294 **APPENDIX I. NOTATION**

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D = pile diameter (m);

R = distance (m); and

 $C_{\text{Oh no!}}$ = fudge factor.

²⁹⁵ The following symbols are used in this paper:

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APPENDIX II. LATEX TEMPLATE OPTIONS

The document class ascelike-new.cls provides several options given below. The Proceedings |-Journal | NewProceedings option is the most important; the other options are largely incidental.

Options Journal | Proceedings | NewProceedings specify the overall format of the out put manuscript.

Journal produces double-spaced manuscripts for ASCE journals. As default settings, it places tables and figures at the end of the manuscript and produces lists of tables and figures. It places line numbers within the left margin.

Proceedings produces older-style camera-ready single-spaced manuscripts for ASCE conference proceedings. The newer ASCE style is enacted with the NewProceedings option.

NewProceedings produces newer-style single-spaced manuscripts for ASCE conference proceedings, as shown on the ASCE website (*ca.* 2013). As default settings, NewProceedings places figures and tables within the text. It does not place line numbers within the left margin.

If desired, the bottom right corner can be "tagged" with the author's name (this can be done by inserting the command \NameTag{<your name>} within the preamble of your document). All of the default settings can be altered with the options that are described below.

2. Options BackFigs | InsideFigs can be used to override the default placement of tables and figures in the Journal, Proceedings, and NewProceedings formats.

- 3. Options SingleSpace | DoubleSpace can be used to override the default text spacing in the Journal, Proceedings, and NewProceedings formats.
- 4. Options 10pt | 11pt | 12pt can be used to override the default text size (12pt).

5. The option NoLists suppresses inclusion of lists of tables and figures that would normally be included in the Journal format.

6. The option NoPageNumbers suppresses the printing of page numbers.

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- 7. The option SectionNumbers produces an automatic numbering of sections. Without the SectionNumbers option, sections will *not* be numbered, as this seems to be the usual formatting in ASCE journals (note that the appendices will, however, be automatically "numbered" with Roman numerals). With the SectionNumbers option, sections and subsections are numbered with Arabic numerals (e.g. 2, 2.1, etc.), but subsubsection headings will not be numbered.
- 8. The options NoLineNumbers |LineNumbers can be used to override the default use (or absence) of line numbers in the Journal, Proceedings, and NewProceedings formats.

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398	List of T	ables			
399	1	An example table	 	 	 20

Assembly Attribute	Values	
(1)	(2)	
Number of particles	4008	
Particle sizes	Multiple	
Particle size range	$0.45D_{50}^{*}$ to $1.40D_{50}$	
Initial void ratio, e_{init}	0.179	
Assembly size	$54D_{50} \times 54D_{50} \times 54D_{50}$	
$* D_{50}$ represents the median particle diameter		

TABLE 1. An example table

400 List of Figures

401	1	An example figure (just a box). This particular figure has a caption with more
402		information than the figure itself, a very poor practice indeed. A reference here
403		(Stahl et al. 2004)



Fig. 1. An example figure (just a box). This particular figure has a caption with more information than the figure itself, a very poor practice indeed. A reference here (Stahl et al. 2004).