# The ECULetter class\*

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# 1 Introduction

The ECULetter class formats the document on official-looking ECU letterhead. It also provides macros to format letters and memos on the letterhead. User settings can be included in a file ECULetterDefs.cfg in the latex path.

# 2 Usage

#### 2.1 Class Declaration

The class declaration statement is

 $\documentclass[\langle options \rangle] \{ ECULetter \}$ 

The following options are valid:

bw Use black and white graphics for the letterhead.

color Use color graphics for the letterhead (set by default).

memo Write the memo header to the first page.

noletterhead Do not write the letterhead to the first page.

All other options are passed to the article class (n.b., not the letter class), upon which this class is based. The article class options 10pt, 12pt, and twocolumn are not compatible with ECULetter and are silently ignored.

## 2.2 Required Packages

The ECULetter class loads the packages geometry, graphicx, fancyhdr, lastpage, and wrapfig. Commands from each of these packages may be used in the document. Use the \geometry command from the geometry package to adjust the document layout and paper size (which defaults to letterpaper).

<sup>\*</sup>This document corresponds to ECULetter v0.1, dated 2017/03/21.

## 2.3 Required Graphics Files

The ECULetter class requires three graphics files to be placed within the latex (graphicx) path: ECULogo (color ECU logo), ECULogoBW (black and white ECU logo), and signature (signature image). These files may be in any format accessible to the graphicx package (with the appropriate extensions) and the files in the latex path may be symlinks.

#### 2.4 Letterhead Content

The letterhead content is set with commands that begin with \lh... Omitting any of these definitions or defining it as empty (\{\}) or whitespace-only (\{\}) results in that item being omitted from the letterhead. The letterhead content is usually defined in the configuration file ECULetterDefs.cfg or in the document preamble.

\lhname

The author's name on the letterhead is set with

```
\lname \{\langle Author\ Name \rangle\}
```

where  $\langle Author\ Name \rangle$  is the name as it appears at the top of the letterhead. Remember to use a backslash (\) after periods following initials to prevent end-of-sentence spacing (for example, John H.\ Doe).

\lhdegree

The author's degree on the letterhead is set with

```
\lhdegree \{\langle Deg \rangle\}
```

where Deg is the degree abbreviation as it appears after the author's name on the letterhead. The degree is only written to the letterhead if \lnmme is defined.

\lhtitle

The author's title on the letterhead is set with

```
\lhtitle \{\langle Title \rangle\}
```

where  $\langle Title \rangle$  is the title (e.g. Associate Professor) on the letterhead. The title is only written to the letterhead if \lambdalname is defined.

\lhECUaddress

The department address on the letterhead is set with

where  $\langle address \rangle$  is the campus portion of the address on the letterhead. The  $\langle address \rangle$  can contain formatting and line breaks. The  $\langle address \rangle$  field can be used to format a departmental letterhead (with \lnme left undefined).

\lhECUPostal

The macro **\ECUPostal** gives the portion of the postal address after the departmental address. This macro is defined as

East Carolina University Greenville, NC 27858-4353 USA

and can be redefined with  $\mbox{renewcommand}\{\mbox{lhECUPostal}\}\{\mbox{$\langle New\ Address\ }\}\}.$ 

\lhphone

The telephone number on the letterhead is set with

```
\lhphone \{\langle xxx-xxx-xxxx\rangle\}
```

where  $\langle xxx-xxx-xxxx \rangle$  is the telephone number. Note that it can be formatted in as desired, e.g. (123) 456-7890 or 123.456.7890.

\lhfax

The fax number on the letterhead is set with

```
\left( xxx-xxx-xxxx \right)
```

where  $\langle xxx-xxx-xxxx \rangle$  is the fax number. Note that it can be formatted in as desired, e.g. (123) 456-7890 or 123.456.7890.

\lhemail

The E-mail address on the letterhead is set with

```
\lhemail \{\langle pirateid@ecu.edu \rangle\}
```

where  $\langle pirateid@ecu.edu \rangle$  is the E-mail address.

\lhwww

The web page URL on the letterhead is set with

```
\lhwww \{\langle ecuurl.ecu.edu \rangle\}
```

where  $\langle ecuurl.ecu.edu \rangle$  is the URL as should appear on the letterhead.

#### 2.5 Memo Header Content

If the document is a memo, these commands, usually included in the document preamble, format the memo header.

\memotitle

The macro \memotitle gives the label MEMORANDUM at the top of the memo header and can be redefined with \renewcommand{\memotitle} $\{\langle newtitle \rangle\}$ .

The TO, FROM, DATE, and SUBJECT listings in the header are formatted using a tabular environment with the labels on the left and the appropriate fields on the right.

\memotolabel

The macro \memotolabel gives the label TO: in the memo header and can be redefined with \renewcommand{\memotolabel}{ $\langle newlabel \rangle$ }.

\memoto

The recipient of the memo is defined with

```
\memoto \{\langle therecipient \rangle\}
```

where  $\langle therecipient \rangle$  is the name listed in the TO-field of the memo header (TO: therecipient). Note that a second line (for example the recipient's title) can be included by specifying

```
\mbox{\ensuremath{\mathsf{Memoto}}} \langle therecipient \rangle \  \  \  \  \  \langle line\ 2 \rangle \}
```

\memofromlabel

The macro \memofromlabel gives the label FROM: in the memo header and can be redefined with \renewcommand{\memofromlabel}{ $\langle newlabel \rangle$ }.

\memofrom

The sender of the memo is defined with

```
\mbox{\em Memofrom } \{\langle thesender \rangle\}
```

where  $\langle the sender \rangle$  is the name listed in the FROM-field of the memo header (FROM: the sender). Note that a second line (for example the sender's title) can be included by specifying

```
\label{linear_loss} $$ \mathbf{these}(these) \ \ \ \ \ (line\ 2)$ $
```

If \memofrom is not specified in the document, it defaults to the author's name on the letterhead as specified by \lname.

\memodatelabel

The macro \memodatelabel gives the label DATE: in the memo header and can be redefined with \renewcommand{\memodatelabel}{ $\langle datelabel \rangle$ }.

\memodate

The date of the memo is defined with

```
\memodate \{\langle date \rangle\}
```

where  $\langle date \rangle$  is date to be used in in the DATE-field of the memo header (DATE: date). If \memodate is not supplied, it is replaced by \today.

\memosubjlabel

The macro \memosubjlabel gives the label SUBJECT: in the memo header and can be redefined with \renewcommand{\memosubjlabel}{ $\langle subjectlabel \rangle$ }.

\memosubject

The subject of the memo is defined with

```
\mbox{\em memosubject } \{\langle subject\ text \rangle\}
```

where  $\langle subject\ text \rangle$  is used in in the SUBJECT-field of the memo header (SUBJECT: subject text). Normally the  $\langle subject\ text \rangle$  would fit in a one-line, regular-width table file. A second line for the subject text can be included by specifying

```
\mbox{\ensuremath{\texttt{memosubject}}} \langle \mbox{\ensuremath{\texttt{subject}}} \mbox{\ensuremath{\texttt{text}}} \rangle \setminus \& \langle \mbox{\ensuremath{\texttt{line}}} \mbox{\ensuremath{\texttt{2}}} \rangle \}
```

Another possibility to extend the subject text is to place it inside a minipage environment.

### 2.6 Other Formatting

These preamble commands format other parts of the letter.

\UNC

The footer statement about ECU being a member of the UNC System and the Equal Opportunity statement are defined with \UNC, which defaults to

East Carolina University is a constituent institution of the University of North Carolina.

An equal opportunity university.

This can be redefined with  $\mbox{renewcommand}\{\mbox{UNC}\}\{\mbox{New statement}\}.$ 

\ptwohead

An optional header included after the first page is defined with

```
\ptwohead \{\langle header\ text \rangle\}
```

If \ptwohead is not supplied, it defaults to the author's name on the letterhead as specified by \lhname.

#### 2.7 Letter commands in the main document

These commands are used in the body of the document to format the letter.

\letterhead

The letterhead is written to the document using the content defined in the preamble with \letterhead. The \letterhead command should be the first thing

written on the page. The letterhead is written to the first page of the document by default, unless the noletterhead class option is given. The  $\$ letterhead command allows the letterhead to be written to other pages (e.g., when the file contains multiple letters).

\memohead

The memo header is written to the document using the content defined in the preamble with \memohead. The memo header is written to the first page when the memo class option is given. The \memohead command allows the memo header to be written to other pages.

\iaddress

The inside address of the letter is included with

This is usually the first command given in the body of the letter (but not for a memo) after the \letterhrad command. The inside address is usually followed with the date, either using \today or the appropriate date text.

\greeting

The greeting in the letter is included with

```
\greeting \{\langle greeting \ text \rangle\}
```

For example, \greeting{Dear Jane:} would format the greeting text "Dear Jane:" on the left margin of the letter. The \greeting command usually follows the date.

\closing \closingsig \closingname The closing of the letter is given by  $\closing \{\closing text\}\$  for a closing statement with name below and space for a handwritten signature. The command  $\closingsig [\slosing text]\$  [ $\closing text$ ] inserts the graphic in the file signature into the signature space between the closing text and the closing name. The optional argument  $\slosing text$  sets the width of the signature graphic with default value 1.75in. The file signature may be in any format accessible to the graphicx package. The default name used below the closing is the letterhead name specified by  $\nlosing text$  and the closing is the letterhead name specified by  $\nlosing text$  and the closing is the letterhead name specified by  $\nlosing text$  and the closing is the letterhead name specified by  $\nlosing text$  and the closing name  $\nlosing text$  and the closing is the letterhead name specified by  $\nlosing text$  and the closing name  $\nlosing text$  and the closing name  $\nlosing text$  and the closing name  $\nlosing text$  and the closing name.

afterclose \ps \encl

ncl \cc \CC \pc \PC

The afterclose environment allows the letter postscript (P.S.), enclosure, and carbon copy statements. The command \ps will format a postscript statement (P.S.) and format the text following it to have a hanging indent. The command \enc1 will format an enclosure statement with the list of enclosed documents following the command. A short enclosure list can be separated by commas, or a longer list can be separated by linebreaks. The command \cc will format the carbon copy statement "cc:" and format the text following it to have a hanging indent. Alternate copy statements \CC (for "CC:"), \pc (for "pc:"), and \PC (for "PC:") are also defined. The afterclose environment is based on the latex description environment, so additional items can easily be provided with \item[\langle label: \rangle \rangle .].

#### 2.8 User Definitions

The class reads user definitions from the file ECULetterDefs.cfg placed within the latex path. Definitions in this file may be overridden on an *ad-hoc* basis with

commands in the document preamble. Examples of useful user definitions include letterhead content definition commands so frequently-used values to not have to be specified in each document.

# 3 Sample Files

This section includes sample files for use with the ECULetter class. The first sample file is a configuration file for storing default user settings. The second sample file is a document template for a letter. The third sample file is a document template for a memo.

## 3.1 Sample User Configuration File

```
% This is a sample user configuration file for use with the ECULetter
% class. Save this file with name ECULetterDefs.cfg, and save it
% somewhere in the latex path. The ECULetter class reads this file and
% executes the commands within it at the end. Add commands to define
\% letterhead parameters for the user. Omit a command to leave the
% parameter undefined, leaving it off of the letterhead.
% First define the name on the letterhead.
\lhname{John Q.\ Doe}
% Define the degree: Ph.D., M.D., Ed.D., etc.
\lhdegree{Ph.D.}
% Define the title: Professor, Head Honcho, etc.
\lhtitle{Associate Professor}
% Define the departmental/campus address.
\lhECUaddress{Department of PhysicsMail Stop 563}
\% Define the telephone number. You can use different formats for the
% number if desired.
\lhphone{252-867-5309}
% Define the fax number. Again, use the desired telephone number format.
\lhfax{252-328-6314}
% Define the E-mail address.
\lhemail{piratep@ecu.edu}
%
% Define the web page.
\lhwww{myweb.ecu.edu/piratep}
```

#### 3.2 Sample Document Template for Letter

```
\% This is a sample document template for a memo using the ECULetter class.
\documentclass[]{ECULetter}
\begin{document}
\today
% Insert inside address in brackets below. Include linebreaks (\\).
\iaddress{Address\\ of\\ Recipient}
\% Insert the complete greeting with name and punctuation in brackets
% below.
\greeting{Dear Recipient:}
% Begin body of the letter below.
\mbox{\ensuremath{\mbox{\%}}} The following creates the closing. Include the closing text in the
\mbox{\ensuremath{\mbox{\%}}} brackets. Use \closing to sign by hand and \closingsig to use the
\% scanned signature in the file signature.pdf (stored in the latex path).
\closing{Sincerely}
% \closingsig{Sincerely}
\ensuremath{\text{\%}} Uncomment commands below to include afterclose items.
% \begin{afterclose}
% \ps
%
% \cc
%
% \encl
%
% \end{afterclose}
\end{document}
      Sample Document Template for Memo
\% This is a sample document template for a memo using the ECULetter class.
\documentclass[memo]{ECULetter}
% Define memo parameters.
\memoto{Patricia T.\ Pirate}
% Include a two-line version with the following:
\% \memoto{Patricia T.\ Pirate, Chair\\ & Tailgating Committee}
\% The following defines the FROM field. Omit it to use the letterhead
% name instead.
```

```
\mathbf{P.} \ D.\  the Pirate
\% Include a two-line version with the following command.
\% \mbox{ \begin{tabular}{ll} \label{table} % The Pirate, Chair \\ & Trebuchet Committee} \end{tabular}
\memosubject{Saturday Activities}
\% The following defines the DATE field. Use any date format desired.
% Omit the command to use \today.
\memodate{October 31, 2017}
\begin{document}
%Begin body of the memo below.
% Uncomment commands below to include afterclose items.
% \begin{afterclose}
% \ps
% \cc
% \encl
% \end{afterclose}
\end{document}
```

# 4 Implementation

The ECULetter class is based on the article class, not the letter class.

```
1 \LoadClass[11pt]{article}
```

Define boolean parameters to implement class options.

- 2 \newif\if@bw
- 3 \@bwfalse
- 4 \newif\if@printletterhead
- ${\tt 5} \; \verb|\| \texttt{Oprintletterheadtrue} \\$
- $6 \neq 6$
- ${\tt 7} \verb|\coloredge| {\tt 0printmemoheadfalse}$

Load required packages.

- $\label{lem:condition} 8 \end{center} $$ \end$
- 9 \RequirePackage{graphicx}
- 10 \RequirePackage{fancyhdr}
- 11 \RequirePackage{lastpage}
- 12 \RequirePackage{wrapfig}

```
Declare options
13 \DeclareOption{bw}{\@bwtrue}
14 \DeclareOption{color}{\@bwfalse}
15 \DeclareOption{noletterhead}{\@printletterheadfalse}
16 \DeclareOption{memo}{\@printmemoheadtrue}
   Declare confliction article class options as \OptionNotUsed.
17 \DeclareOption{10pt}{\OptionNotUsed}
18 \DeclareOption{12pt}{\OptionNotUsed}
19 \DeclareOption{twocolumn}{\OptionNotUsed}
   Pass all undefined options to the article class.
20 \DeclareOption*{%
        \PassOptionsToClass{\CurrentOption}{article}%
21
22 }
   Process options.
23 \ProcessOptions\relax
   No headrule or footrule.
24 \renewcommand{\headrulewidth}{Opt}
25 \renewcommand{\footrulewidth}{Opt}
   Take care of letterhead definitions. Most commands have a boolean \if@commanddefined
and a value holder \@command.
26 \newif\if@lhnamedefined
27 \@lhnamedefinedfalse
28 \DeclareRobustCommand*{\@lhname}{}
29 \DeclareRobustCommand*{\lhname}[1]{
    \DeclareRobustCommand*{\@lhname}{#1}%
The following command \setbox... strips whitespace and declares the command
undefined if nothing is left. It will cause an error if there are any \\ in the value
(use \linebreak instead).
    \setbox0=\hbox{\@lhname\unskip}\ifdim\wd0=0pt
31
      \@lhnamedefinedfalse
32
33
    \else
34
      \@lhnamedefinedtrue
    \fi
35
36 }
37 \newif\if@lhdegreedefined
38 \@lhdegreedefinedfalse
39 \DeclareRobustCommand*{\@lhdegree}{}
40 \DeclareRobustCommand*{\lhdegree}[1]{
    \DeclareRobustCommand*{\@lhdegree}{#1}
41
    \setbox0=\hbox{\@lhdegree\unskip}\ifdim\wd0=0pt
42
      \@lhdegreedefinedfalse
43
    \else
44
      \@lhdegreedefinedtrue
45
46
    \fi
47 }
```

```
48 \newif\if@lhtitledefined
49 \@lhtitledefinedfalse
50 \DeclareRobustCommand*{\@lhtitle}{}
51 \DeclareRobustCommand*{\lhtitle}[1]{
52
    \DeclareRobustCommand*{\@lhtitle}{#1}
    \setbox0=\hbox{\@lhtitle\unskip}\ifdim\wd0=0pt
53
      \@lhtitledefinedfalse
54
55
    \else
56
      \@lhtitledefinedtrue
57
    \fi
58 }
59 \neq 59 
60 \@lhECUaddressdefinedfalse
61 \DeclareRobustCommand{\@lhECUaddress}{}
62 \DeclareRobustCommand{\lhECUaddress}[1]{
    \DeclareRobustCommand*{\@lhECUaddress}{#1}
    \@lhECUaddressdefinedtrue
65 }
66 \DeclareRobustCommand{\lhECUPostal}{
67
      East Carolina University\\
68
      Greenville, NC 27858-4353\\
69
      USA
70 }
71 \newif\if@lhphonedefined
72 \@lhphonedefinedfalse
73 \DeclareRobustCommand*{\@lhphone}{}
74 \DeclareRobustCommand*{\lhphone}[1]{
    \DeclareRobustCommand*{\@lhphone}{#1}
76
    \setbox0=\hbox{\@lhphone\unskip}\ifdim\wd0=0pt
77
      \@lhphonedefinedfalse
78
    \else
      \@lhphonedefinedtrue
79
80
    \fi
81 }
82 \newif\if@lhfaxdefined
83 \@lhfaxdefinedfalse
84 \DeclareRobustCommand*{\@lhfax}{}
85 \DeclareRobustCommand*{\lhfax}[1]{
    \DeclareRobustCommand*{\@lhfax}{#1}
    87
      \@lhfaxdefinedfalse
88
89
    \else
90
      \@lhfaxdefinedtrue
91
    \fi
92 }
93 \newif\if@lhemaildefined
94 \@lhemaildefinedfalse
```

```
95 \DeclareRobustCommand*{\@lhemail}{}
  96 \DeclareRobustCommand*{\lhemail}[1]{
            \DeclareRobustCommand*{\@lhemail}{#1}
  97
            98
                 \@lhemaildefinedfalse
  99
100
            \else
101
                \@lhemaildefinedtrue
102
          \fi
103 }
104 \newif\if@lhwwwdefined
105 \@lhwwwdefinedfalse
106 \DeclareRobustCommand*{\@lhwww}{}
107 \DeclareRobustCommand*{\lhwww}[1]{
108
            \DeclareRobustCommand*{\@lhwww}{#1}
109
            110
                \@lhwwwdefinedfalse
111
           \else
                \@lhwwwdefinedtrue
112
           \fi
113
114 }
         Declare memo commands
115 \DeclareRobustCommand*{\memotitle}{MEMORANDUM}
116 \DeclareRobustCommand*{\memotolabel}{TO:}
117 \DeclareRobustCommand*{\@memoto}{}
\label{localized} 118 \end{align*} $$118 \end{align*} \end{align*} $$118 \end{align*} $
119 \verb|\newif\if@memofromdefined|
120 \mbox{\em C} memofrom defined false
121 \DeclareRobustCommand*{\memofromlabel}{FROM:}
122 \DeclareRobustCommand*{\@memofrom}{}
123 \DeclareRobustCommand*{\memofrom}[1]{
            \DeclareRobustCommand*{\@memofrom}{#1}
125
            \@memofromdefinedtrue
126 }
127 \DeclareRobustCommand*{\memosubjlabel}{SUBJECT:}
128 \DeclareRobustCommand*{\@memosubject}{}
129 \DeclareRobustCommand*{\memosubject}[1]{\DeclareRobustCommand*{\@memosubject}{#1}}
130 \newif\if@memodatedefined
131 \@memodatedefinedfalse
132 \DeclareRobustCommand*{\memodatelabel}{DATE:}
133 \DeclareRobustCommand*{\@memodate}{}
134 \DeclareRobustCommand*{\memodate}[1]{
            \DeclareRobustCommand*{\@memodate}{#1}
136
            \@memodatedefinedtrue
137 }
```

Declare other formatting commands.

```
138 \neq 138
139 \@ptwoheaddefinedfalse
140 \DeclareRobustCommand*{\@ptwohead}{}
141 \DeclareRobustCommand*{\ptwohead}[1]{
     \DeclareRobustCommand*{\@ptwohead}{#1}
     \@ptwoheaddefinedtrue
144 }
145 \verb|\DeclareRobustCommand{\UNC}{\{}
     East Carolina University is a constituent institution of the
146
     University of North Carolina.\\
     An equal opportunity university.
148
149 }
150 \DeclareRobustCommand{\iaddress}[1]{
     \par
152
     #1
153
     \par
154 }
155 \DeclareRobustCommand{\greeting}[1]{
156
     \par
157
     #1
158
     \par
159 }
160 \newif\if@closingnamedefined
161 \@closingnamedefinedfalse
162 \DeclareRobustCommand*{\@closingname}{}
163 \DeclareRobustCommand*{\closingname}[1]{
     \DeclareRobustCommand*{\@closingname}{#1}
165
     \@closingnamedefinedtrue
166 }
167 \DeclareRobustCommand{\closing}[1]{
168
     \par
     \vspace{\parskip}\vspace{\parskip}#1,
169
170
     \vspace{\parskip}\vspace{\parskip}%
171
     \if@closingnamedefined
172
173
       \@closingname
     \else
174
       \if@lhnamedefined
175
         \@lhname
176
       \else
177
178
179
       \fi
180
     \fi
181 }
182 \newlength{\sigwidth}
183 \setlength{\sigwidth}{1.75in}
```

```
\closingsig This command will include a signature image in the file signature.
            184 \DeclareRobustCommand{\closingsig}[2][\sigwidth]{
            185
                  \par
                  \vspace{\parskip}\vspace{\parskip}#2,\\
            186
            187
                  \includegraphics[width=#1]{signature}\\
            188
                  \if@closingnamedefined
                    \@closingname
            189
                  \else
            190
                    \if@lhnamedefined
            191
                      \@lhname
            192
                    \else
            193
            194
                    \fi
            195
                 \fi
            196
            197 }
\letterhead This is the command to include the letterhead in the document.
            198 \DeclareRobustCommand{\letterhead}{
                  \thispagestyle{lhpage}
            199
                  \begin{wrapfigure}[15]{i}[0pt]{0in}
            200
                    \hspace{-1.75in}
            201
            202
                    \begin{minipage}[t]{1.7in}
            203
                      \vspace{-0.5in}
            204
                      \if@bw
             The black and white ECU logo file is in the \includegraphics command below.
             This file must be somewhere in the latex path. (Test with the terminal command
             $ kpsewhich filename.pdf.)
            205
                        \includegraphics[width=4.75in]{ECULogoBW}\\ \\
            206
             The ECU logo file is in the \includegraphics command below.
             must be somewhere in the latex path. (Test with the terminal command
             $ kpsewhich filename.pdf.)
                        \includegraphics[width=4.75in]{ECULogo}\\ \\
            207
            208
                      \fi
            209
                      {%
                        \sf\raggedright \fontsize{9}{10.8}\selectfont
            210
                        \if@lhnamedefined
            211
                          \textbf{\@lhname\if@lhdegreedefined{, \@lhdegree}\fi}\\
            212
                          \if@lhtitledefined{\@lhtitle\\}\fi
            213
                        \fi
            214
                      \if@lhECUaddressdefined
            215
                        \@lhECUaddress ~\\
            216
                      \fi
            217
            218
                      \lhECUPostal\\~\\
            219
                      \if@lhphonedefined
                        \@lhphone\ office\\
            220
```

221

222

\fi

\if@lhfaxdefined

```
\0 \ fax\\~\\
           223
           224
                     \if@lhemaildefined
           225
                       \@lhemail \\
           ^{226}
                     \fi
           227
                     \if@lhwwwdefined
           228
           229
                       \@lhwww \\
                     \fi
           230
                     }
           231
                   \end{minipage}%
           232
                 \end{wrapfigure}
           233
                 \normalsize
           234
           235
           236
                 \par
           237 }
\memohead The command memohead creates a heading for a memorandum.
           238 \DeclareRobustCommand{\memohead}{
           239 \begin{tabular}{1 1}
                 \mbox{\mbox{\mbox{$1}}{\mbox{\mbox{\mbox{$memotitle}$}}} \
           240
                 \memotolabel & \@memoto\\ \\
           241
                 \memofromlabel &
                 \if@memofromdefined
           243
                   \@memofrom\\ \\
           244
                 \else
           245
                   \if@lhnamedefined
           ^{246}
           247
                     \@lhname\\ \\
           248
                   \else
                     ~\\ \\
           249
                   \fi
           250
                \fi
           251
                 \memodatelabel &
           252
                 \if@memodatedefined
           253
                   \@memodate \\ \\
           254
           255
                 \else
                   \today \\ \\
           256
           257
                 \memosubjlabel & \@memosubject\\ \\
           258
           259 \end{tabular}
           260 }
               The following length definitions are necessary.
           261 \land headsep = 0.25in
           262 \text{ } \text{parskip} = 2ex
           263 \parindent = 0.0in
           264 \setminus footskip = 18.7pt
               Format the first page headers and footers.
           265 \fancypagestyle{lhpage}{%
                \fancyhf{}
           266
```

```
\fancyfoot[L]{\hspace{-1.75in}
                                                            267
                                                                                                    \begin{minipage}{1.7in}
                                                            268
                                                                                                               \raggedright
                                                            269
                                                                                                               \ensuremath{\ensuremath{\mbox{\colored}}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\ensuremath}\ensuremath{\mbox{\colored}}\ensuremath{\mbox{\colored}}\en
                                                            270
                                                                                                    \end{minipage}
                                                            271
                                                            272
                                                                                      }%
                                                            273 }%
afterclose Define the afterclose environment.
                                                            274 \end{description} {\bf 274 \end{description}} {\bf 274 \end{descript
                                                                                   Define the afterclose items.
                                                            275 \DeclareRobustCommand*{\ps}{
                                                                                      \item[{\rm{P.S.}}]
                                                            276
                                                            277 }
                                                            278 \DeclareRobustCommand*{\encl}{
                                                            279
                                                                                        \item[{\rm{encl:}}]
                                                            280 }
                                                            281 \DeclareRobustCommand*{\cc}{
                                                                                        \item[{\rm{cc:}}]
                                                            282
                                                            283 }
                                                            284 \DeclareRobustCommand*{\CC}{
                                                            285 \item[{\rm{CC:}}]
                                                            286 }
                                                            287 \DeclareRobustCommand*{\pc}{
                                                                                        \item[{\rm{pc:}}]
                                                            289 }
                                                            290 \DeclareRobustCommand*{\PC}{
                                                                                        \item[{\rm{PC:}}]
                                                            291
                                                            292 }
                                                                                   Set the page style for pages following the first page.
                                                            293 \pagestyle{fancy}
                                                            295
                                                                                        \if@ptwoheaddefined
                                                            296
                                                                                                    \@ptwohead
                                                            297
                                                                                         \else
                                                            298
                                                                                                    \@lhname
                                                            299
                                                                                        \fi
                                                            300 }
                                                            301 \ \chead{}
                                                            302 \rhead{Page \thepage\ of \pageref{LastPage}}
                                                            303 \lfoot{}
                                                            304 \cfoot{}
                                                            305 \rfoot{}
                                                                                  Set the main text to be \raggedright
                                                            306 \raggedright
```

Read user defined commands from the file  ${\tt ECULetterDefs.cfg}$  if it exists.

```
307 \InputIfFileExists{ECULetterDefs.cfg}{%
308 \ClassInfo{ECULetter}{Loading user configurations from ECULetterDefs.cfg}%
309 }%
310 {%
311 \ClassInfo{ECULetter}{User configuration file found.}%
312 }
```

Include  $\$  and  $\$  are beginning of the document if appropriate.

```
313 \AtBeginDocument{
314 \if@printletterhead
315 \letterhead
316 \fi
317 \if@printmemohead
318 \memohead
319 \fi
320 }
```

# **Change History**

v0.1 General: Initial version . . . . . . . 1

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