## The ECULetter class\*

Mark W. Sprague spraguem@ecu.edu

March 21, 2017

## 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 ECULetter class can be called with the following options:

**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 IATEX (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 IATEX 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{\em memoto}\{\langle there cipient \rangle \setminus \ \& \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} $$ \mathbf{these}(these nder) \ \ \& \ \langle line \ 2 \rangle $$
```

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{\tt memosubject}\{\langle subject\ text\rangle \ \ \&\ \langle line\ 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  $\closingsig [\sigmithantarrow]$   $\{\closing text\}\$  inserts the graphic in the file signature into the signature space between the closing text and the closing name. The optional argument  $\sigmithantarrow$  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  $\normalfont{lhname}$ , but it can be set with  $\closingname \{\closing name\}\$ . The  $\closing name\}$  may include formatting commands and line breaks (for titles, etc.).

afterclose \ps \encl

encl \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 LaTeXdescription environment, so additional items can easily be provided with \item[\langle label:\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.

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

## 3 Implementation

```
1 \LoadClass[11pt] {article}
   Define boolean parameters to implement class options.
2 \newif\if@bw
3 \@bwfalse
4 \newif\if@printletterhead
5 \@printletterheadtrue
6 \newif\if@printmemohead
7 \@printmemoheadfalse
   Load required packages.
8 \RequirePackage[letterpaper, hmargin={2in,1in}, vmargin=1in]{geometry}
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.
        \PassOptionsToClass{\CurrentOption}{article}%
21
22 }
   Process options.
23 \ProcessOptions\relax
```

Take care of letterhead definitions. Most commands have a boolean  $\ightharpoonup$  and a value holder  $\command$ .

```
26 \newif\if@lhnamedefined
27 \@lhnamedefinedfalse
```

No headrule or footrule.

24 \renewcommand{\headrulewidth}{0pt} 25 \renewcommand{\footrulewidth}{0pt}

```
28 \DeclareRobustCommand*{\@lhname}{}
29 \DeclareRobustCommand*{\lhname}[1]{
30 \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
      \@lhnamedefinedfalse
32
    \else
33
      \@lhnamedefinedtrue
34
    \fi
35
36 }
37 \newif\if@lhdegreedefined
38 \@lhdegreedefinedfalse
39 \DeclareRobustCommand*{\@lhdegree}{}
40 \DeclareRobustCommand*{\lhdegree}[1]{
41
    \DeclareRobustCommand*{\@lhdegree}{#1}
    \setbox0=\hbox{\@lhdegree\unskip}\ifdim\wd0=0pt
42
      \@lhdegreedefinedfalse
43
44
    \else
45
      \@lhdegreedefinedtrue
46
    \fi
47 }
48 \newif\if@lhtitledefined
49 \@lhtitledefinedfalse
50 \DeclareRobustCommand*{\@lhtitle}{}
51 \DeclareRobustCommand*{\lhtitle}[1]{
    \DeclareRobustCommand*{\@lhtitle}{#1}
52
    \setbox0=\hbox{\@lhtitle\unskip}\ifdim\wd0=0pt
53
54
      \@lhtitledefinedfalse
55
56
      \@lhtitledefinedtrue
    \fi
57
58 }
59 \newif\if@lhECUaddressdefined
60 \@lhECUaddressdefinedfalse
61 \DeclareRobustCommand{\@lhECUaddress}{}
62 \label{lem:command} $$ 1] { }
    \DeclareRobustCommand*{\@lhECUaddress}{#1}
64
    \@lhECUaddressdefinedtrue
65 }
66 \DeclareRobustCommand{\lhECUPostal}{
      East Carolina University\\
67
      Greenville, NC 27858-4353\
68
69
      USA
70 }
```

```
71 \newif\if@lhphonedefined
 72 \ensuremath{\mbox{\sc 0}} \Oldsymbol{0}lhphonedefinedfalse
 73 \DeclareRobustCommand*{\@lhphone}{}
 74 \DeclareRobustCommand*{\lhphone}[1]{
     \DeclareRobustCommand*{\@lhphone}{#1}
 75
     76
 77
        \@lhphonedefinedfalse
     \else
 78
 79
        \@lhphonedefinedtrue
 80
     \fi
 81 }
 82 \newif\if@lhfaxdefined
 83 \@lhfaxdefinedfalse
 84 \DeclareRobustCommand*{\@lhfax}{}
 85 \DeclareRobustCommand*{\lhfax}[1]{
     \DeclareRobustCommand*{\@lhfax}{#1}
     \stbox0=\hbox{\clinkip}\subset \wd0=0pt
 87
        \@lhfaxdefinedfalse
 88
 89
     \else
 90
        \@lhfaxdefinedtrue
     \fi
 91
 92 }
 93 \newif\if@lhemaildefined
 94 \Olhemaildefinedfalse
 95 \DeclareRobustCommand*{\@lhemail}{}
 96 \DeclareRobustCommand*{\lhemail}[1]{
     \DeclareRobustCommand*{\@lhemail}{#1}
 97
     \label{lemail} $$\ \end{$\mathbb Q$ hemail\,\nskip}\to \down^0=0pt $$
 98
 99
        \@lhemaildefinedfalse
     \else
100
101
        \@lhemaildefinedtrue
102
     \fi
103 }
104 \newif\if@lhwwwdefined
105 \setminus 01hwwwdefinedfalse
106 \DeclareRobustCommand*{\@lhwww}{}
107 \DeclareRobustCommand*{\lhwww}[1]{
     \DeclareRobustCommand*{\@lhwww}{#1}
108
     \label{locality} $$\ \end{$\mathbb Q$ how $$\ \end{$\mathbb Q$ how $$\ \n skip}\to \n \end{$\mathbb Q$ opt } $$
109
110
        \@lhwwwdefinedfalse
     \else
111
        \@lhwwwdefinedtrue
112
113 \fi
114 }
    Declare memo commands
115 \DeclareRobustCommand*{\memotitle}{MEMORANDUM}
```

```
116 \DeclareRobustCommand*{\memotolabel}{TO:}
117 \DeclareRobustCommand*{\@memoto}{}
118 \DeclareRobustCommand*{\memoto}[1]{\DeclareRobustCommand*{\@memoto}{#1}}
119 \newif\if@memofromdefined
120 \@memofromdefinedfalse
121 \DeclareRobustCommand*{\memofromlabel}{FROM:}
122 \DeclareRobustCommand*{\@memofrom}{}
123 \DeclareRobustCommand*{\memofrom}[1]{
            \DeclareRobustCommand*{\@memofrom}{#1}
            \@memofromdefinedtrue
126 }
127 \DeclareRobustCommand*{\memosubjlabel}{SUBJECT:}
128 \DeclareRobustCommand*{\@memosubject}{}
\label{local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-loc
130 \newif\if@memodatedefined
131 \@memodatedefinedfalse
132 \DeclareRobustCommand*{\memodatelabel}{DATE:}
133 \DeclareRobustCommand*{\@memodate}{}
134 \DeclareRobustCommand*{\memodate}[1]{
            \DeclareRobustCommand*{\@memodate}{#1}
            \@memodatedefinedtrue
136
137 }
          Declare other formatting commands.
138 \newif\if@ptwoheaddefined
139 \Optwoheaddefinedfalse
140 \DeclareRobustCommand*{\@ptwohead}{}
141 \DeclareRobustCommand*{\ptwohead}[1]{
            \DeclareRobustCommand*{\Optwohead}{#1}
            \@ptwoheaddefinedtrue
143
144 }
145 \DeclareRobustCommand{\UNC}{
146
           East Carolina University is a constituent institution of the
147
            University of North Carolina. \\
148
            An equal opportunity university.
149 }
150 \DeclareRobustCommand{\iaddress}[1]{
151
            \par
            #1
152
153
            \par
154 }
155 \DeclareRobustCommand{\greeting}[1]{
            \par
156
            #1
157
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
                  \vspace{\parskip}\vspace{\parskip}#1,
            169
            170
                  \vspace{\parskip}\vspace{\parskip}%
            171
            172
                  \if@closingnamedefined
                    \@closingname
            173
                  \else
            174
                    \if@lhnamedefined
            175
                      \@lhname
            176
                    \else
            177
            178
            179
                    \fi
            180
                  \fi
            181 }
            182 \newlength{\sigwidth}
            183 \left\{ \frac{1.75in}{1.75in} \right\}
\closingsig This command will include a signature image in the file signature.
            184 \DeclareRobustCommand{\closingsig}[2][\sigwidth]{
            185
                  \vspace{\parskip}\vspace{\parskip}#2,\\
            186
                  \includegraphics[width=#1]{signature}\\
            187
                  \if@closingnamedefined
            188
                    \@closingname
            189
                  \else
            190
                    \if@lhnamedefined
            191
             192
                      \@lhname
            193
                    \else
            194
            195
                    \fi
                  \fi
            196
            197 }
\letterhead This is the command to include the letterhead in the document.
            198 \DeclareRobustCommand{\letterhead}{
                  \thispagestyle{lhpage}
            199
            200
                  \begin{wrapfigure}[15]{i}[0pt]{0in}
                    \hspace{-1.75in}
            201
                    \begin{minipage}[t]{1.7in}
            202
                      \vspace{-0.5in}
            203
                      \if@bw
            204
```

The black and white ECU logo file is in the \includegraphics command below. This file must be somewhere in the latex file path. (Test with the terminal command \$ kpsewhich filename.pdf.)

```
205 \includegraphics[width=4.75in]{ECULogoBW}\\ \\ 206 \else
```

The ECU logo file is in the \includegraphics command below. This file must be somewhere in the latex file path. (Test with the terminal command \$ kpsewhich filename.pdf.)

```
\includegraphics[width=4.75in]{ECULogo}\\ \\
207
208
209
          {%
            \sf\raggedright \fontsize{9}{10.8}\selectfont
210
            \if@lhnamedefined
211
212
              \textbf{\@lhname\if@lhdegreedefined{, \@lhdegree}\fi}\\
              \if@lhtitledefined{\@lhtitle\\}\fi
213
            \fi
214
215
          \if@lhECUaddressdefined
216
            \@lhECUaddress ~\\
          \fi
217
          \lhECUPostal\\~\\
218
          \if@lhphonedefined
219
            \@lhphone\ office\\
220
221
          \fi
222
          \if@lhfaxdefined
            \ \ \@lhfax\ fax\\~\\
223
224
225
          \if@lhemaildefined
            \@lhemail \\
226
          \fi
227
228
          \if@lhwwwdefined
229
            \@lhwww \\
          \fi
230
231
        \end{minipage}%
232
     \end{wrapfigure}
233
     \normalsize
234
235
236
     \par
```

\memohead The command memohead creates a heading for a memorandum.

```
238 \DeclareRobustCommand{\memohead}{
239 \begin{tabular}{1 l}
240 \multicolumn{2}{1}{\memotitle}\\ \\
241 \memotolabel & \@memoto\\ \\
242 \memofromlabel &
243 \if@memofromdefined
244 \@memofrom\\ \\
```

```
245
                                                     \else
                                                            \if@lhnamedefined
                                    246
                                                                  \@lhname\\ \\
                                    247
                                                            \else
                                    248
                                                                   ~\\ \\
                                    249
                                    250
                                                            \fi
                                    251
                                                     \fi
                                                     \memodatelabel &
                                    252
                                                     \if@memodatedefined
                                    253
                                                            \@memodate \\ \\
                                    254
                                                     \else
                                    255
                                                            \today \\ \\
                                    256
                                    257
                                                     \fi
                                                     \memosubjlabel & \@memosubject\\ \\
                                    258
                                    259 \end{tabular}
                                    260 }
                                                  The following length definitions are necessary.
                                    261 \land headsep = 0.25in
                                    262 \text{parskip} = 2ex
                                    263 \parindent = 0.0in
                                    264 \setminus footskip = 18.7pt
                                                  Format the first page headers and footers.
                                    265 \fancypagestyle{lhpage}{%
                                    266
                                                     \fancyhf{}
                                                     \fancyfoot[L]{\hspace{-1.75in}
                                    267
                                                            \begin{minipage}{1.7in}
                                    268
                                                                  \raggedright
                                    269
                                                                  \emph{\fontsize{7}{8.4}\selectfont \UNC\\}
                                    270
                                    271
                                                            \end{minipage}
                                                    }%
                                    272
                                    273 }%
afterclose Define the afterclose environment.
                                    274 \newenvironment {afterclose} {\begin{description}} {\newenvironment} {\newenvi
                                                  Define the afterclose items.
                                    275 \verb|\DeclareRobustCommand*{\ps}{{}}{} 
                                                    \\item[{\rm{P.S.}}]
                                    276
                                    277 }
                                    278 \DeclareRobustCommand*{\encl}{
                                                     \item[{\rm{encl:}}]
                                    280 }
                                    281 \DeclareRobustCommand*{\cc}{
                                    282
                                                     \item[{\rm{cc:}}]
                                    283 }
```

```
284 \DeclareRobustCommand*{\CC}{
                \item[{\rm{CC:}}]
286 }
287 \verb|\DeclareRobustCommand*{\pc}{\{}
                \item[{\rm{pc:}}]
289 }
290 \verb|\DeclareRobustCommand*{\PC}{\{}
                \item[{\rm{PC:}}]
292 }
             Set the page style for pages following the first page.
293 \pagestyle{fancy}
\if@ptwoheaddefined
295
                        \@ptwohead
296
                 \else
297
                        \@lhname
298
                \fi
299
300 }
301 \ \chead{}
302 \rhead{Page \thepage\ of \pageref{LastPage}}
303 \lfoot{}
304 \cfoot{}
305 \rfoot{}
             Set the main text to be \raggedright
306 \racklesses 1000 
             Read user defined commands from the file ECULetterDefs.cfg if it exists.
307 \InputIfFileExists{ECULetterDefs.cfg}{%
308
             \ClassInfo{ECULetter}{Loading user configurations from ECULetterDefs.cfg}%
309 }%
310 {%
                 \ClassInfo{ECULetter}{User configuration file found.}%
311
312 }
             Include \letterhead and \memohead at the beginning of the document if ap-
  propriate.
313 \AtBeginDocument{
                \if@printletterhead
315
                        \letterhead
316
                \if@printmemohead
317
                       \memohead
318
                \fi
319
320 }
```

# Change History

v0.1					
General: Initial version					]

# Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

${f Symbols}$	\@lhphonedefinedfalse	
\@bwfalse 3, 14	$\dots \dots 72, 77$	\□ 220, 223, 302
\@bwtrue 13	\@lhphonedefinedtrue 79	
\@closingname	\@lhtitle 50, 52, 53, 213	$\mathbf{A}$
. 162, 164, 173, 189	\@lhtitledefinedfalse	afterclose (environ-
\@closingnamedefinedfalse		ment) $5, \underline{274}$
	\@lhtitledefinedtrue 56	\AtBeginDocument 313
\@closingnamedefinedtrue	\@lhwww 106, 108, 109, 229	_
$\dots \dots 165$	\@lhwwwdefinedfalse	В
\@lhECUaddress	105, 110	\begin 200,
$\dots 61, 63, 216$	\075	202, 239, 268, 274
\@lhECUaddressdefinedfals	©\@memodate 133 135 254	$\mathbf{C}$
60	\@memodatedefinedfalse	· ·
\@lhECUaddressdefinedtrue	131	\CC 5, 284
64	\@memodatedefinedtrue	\cc
$\ensuremath{\mbox{Olhdegree}}\ 39,41,42,212$		\chead 304
\@lhdegreedefinedfalse	\@memofrom 122, 124, 244	\ClassInfo 308, 311
38, 43	\@memofromdefinedfalse	\closing 5, 167
\@lhdegreedefinedtrue	120	\closingname 5, 163
45	\@memofromdefinedtrue	\closingsig 5, <u>184</u>
$\c \$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$ $\$	125	\CurrentOption 21
\@lhemaildefinedfalse	\@memosubject	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
94, 99	128, 129, 258	D
\@lhemaildefinedtrue	\@memoto 117, 118, 241	\DeclareOption $13-20$
	\@printletterheadfalse	_
\Olhfax 84, 86, 87, 223		${f E}$
\@lhfaxdefinedfalse	\@printletterheadtrue	\emph 270
		\encl 5, 278
\@lhfaxdefinedtrue . 90	\@printmemoheadfalse 7	\end 232,
\@lhname	\@printmemoheadtrue 16	233, 259, 271, 274
28, 30, 31, 176,	\@ptwohead 140, 142, 296	environments:
192, 212, 247, 298	•	afterclose $5, \underline{274}$
\@lhnamedefinedfalse	\@ptwoheaddefinedfalse	F
\Climate \cdot \Climate \cdot		=
	\@ptwoheaddefinedtrue	\fancyfoot 267
\@lhphone 73, 75, 76, 220	$\dots 143$	\fancyhf 266

\fancypagestyle 265	\if@ptwoheaddefined	0
\fontsize 210, 270		<b>\OptionNotUsed</b> $17-19$
\footrulewidth $25$	\includegraphics	
\footskip 264	$\dots$ 187, 205, 207	P
$\mathbf{G}$	\InputIfFileExists . 307	\pageref 302
<del></del>	${f L}$	\pagestyle 293
\greeting 5, 155	<del>_</del>	\parindent 263
н	\letterhead . 4, <u>198</u> , 315 \lfoot 303	\PassOptionsToClass 21
\headrulewidth 24	\lhdegree 2, 40	\PC 5, 290
\headsep 261	\lhead	\pc 5, 287
\hspace 201, 267	\lhECUaddress 2, 62	\ProcessOptions 23
,	\lhECUPostal . 2, 66, 218	\ps 5, 275
I	\lhemail	\ptwohead 4, 141
\iaddress 5, 150	\lhfax	R
\if@bw 2, 204	\lhname	
\if@closingnamedefined	\lhphone 2, 74	\raggedright 210, 269, 306
160, 172, 188	\lhtitle 2, 51	\relax 210, 209, 300
\if@lhdegreedefined	\lhwww	\renewcommand 24, 25
	$\LoadClass$ 1	\RequirePackage 8-12
\if@lhECUaddressdefined	2.5	\rfoot 305
$59, 215$ \if@lhemaildefined .	M	\rhead 302
	\memodate 4, 134	\rm 276, 279,
\if@lhfaxdefined 82, 222	\memodatelabel	282, 285, 288, 291
\if@lhnamedefined 26,	4, 132, 252 \memofrom 3, 123	,,,
175, 191, 211, 246	\memofromlabel	${f S}$
\if@lhphonedefined .	3, 121, 242	\selectfont 210, 270
	\memohead $5, \frac{238}{238}, \frac{318}{318}$	\setlength 183
\if@lhtitledefined .	\memosubject $4$ , 129	\sf 210
48, 213	\memosubjlabel	\sigwidth $182-184$
\if@lhwwwdefined	4, 127, 258	
$\dots \dots 104, 228$	\memotitle . 3, 115, 240	${f T}$
\if@memodatedefined	\memoto	\textbf 212
	\memotolabel 3, 116, 241	\thepage 302
\if@memofromdefined	\multicolumn 240	\thispagestyle 199
119, 243		\today 256
\if@printletterhead	<b>N</b>	
	\newlength 182	U
\if@printmemohead $6,317$	\normalsize 234	\UNC 4, 145, 270