Senior Seminar Project Proposal

Assignment: Your project proposal narrowed down, with three references, not all of them internet sites if at all possible—in paper copy, and LaTeX and PDF versions on Drive Q: in your team or individual directory.

Date assigned: 7 Feb 2006 **Date due:** 14 Feb 2006

If you have installed MikTeX to Windows in the default location, taking the defaults whenever possible, you will find a directory `C:\texmf` (standing for TeX and Metafont). Those who installed to Linux will make the appropriate changes to what I say below. Here are three programs and two data files that you will want to pay attention to for this assignment.

In `\texmf\miktex\bin\` you will find these *.exe programs: yap, latex, and pdflatex. They can be executed from anywhere because `\texmf\miktex\bin\` has been added to your path.

- `latex` converts files that are in `*.tex` format into files in device-independent format `*.dvi`.
- `yap` displays `*.dvi` files on your screen and allows you to print them to a postscript compatible printer.
- `pdflatex` creates a pdf file directly from a `*.tex` file.

You will need two data files, `\texmf\tex\latex\bas\sample2e.tex and \texmf\doc\latex\spie\article.tex`.

1. Look over the first file with some text editor. I recommend Notetab because the Windows notepad assumes that lines in files end with carriage return and linefeed, but notetab displays text files correctly that have lines that end in just a linefeed, which is standard Unix, and therefore the format of all text files in MikTeX.

2. Convert the first file to `*.dvi`, by typing on a DOS command line

```
latex sample2e.tex
```

You will see as a result the following files in the same directory:

`sample2e.dvi,` the output that you want, in a device-independent format;
`sample2e.log,` a log of what happened, so that you can debug any errors;
`sample2e.aux,` a file useful for generating a table of contents of your document.

3. You can view `sample2e.dvi` by double clicking on it in Windows Explorer if your installation bound dvi files to the program yap mentioned above. Or, you can convert `sample2e.tex` directly to a pdf file by typing

```
pdflatex sample2e.tex
```

Now repeat steps 1–3 with the second file, `article.tex`.

Can you think of a way of incorporating a references section in `sample2e.tex` using what you learned from `article.tex`? Try it. Then apply what you learned to the assignment mentioned above of writing your proposal in TeX and PDF.