

**Geology 202**  
**GEOMORPHOLOGY**  
**Using Rose diagram software**

**Overview:**

This software is shareware that is available off the web at:

[http://geology.ou.edu/~ksmart/structure\\_webpage/software.html](http://geology.ou.edu/~ksmart/structure_webpage/software.html)

This is a really basic program that can make the simple rose diagrams that we need for this course. *You may download your own version of the software*, which will only work on Windows machines. Basically, you will prepare your data as we have discussed in class by converting your strike data into dip direction data, and then you will open this data file from the Rose diagram program, adjust a few settings, and then copy and paste your rose diagram into your lab reports.

**A] Creating a data file on Word.**

- 1) Enter your data into Excel
- 2) Convert your strike data into dip direction by adding 90°
- 3) Insert an *If* Function to correct those values that exceed 360° to their proper azimuth value (between 0 and 360°). This is done simply by subtracting 360° from all values that equal or exceed 360°. You should all use the *If* function as you will be using it later in the term.
- 4) Copy your corrected dip direction data to a new worksheet that has no column headings; that is, it is just a string of number and nothing more.
- 5) Save this file as a .txt file (tab delimited)

**B] Creating a rose diagram using the rose diagram software**

- 1) Open the rose diagram program, which is on the desktop on all the computers in OLIN 322 (Map Room)
- 2) Select file>open and then select all files from the *file type* pull down menu
- 3) Once you have found your file, select it and a rose diagram will be made
- 4) Select Edit>Preferences and select *unidirectional* (for dip direction data), and select a cell size of 10°
- 5) Once you have made your rose diagram, open WORD, create a new document, then toggle back to your rose diagram, select Edit>copy, and finally toggle back to WORD and select edit>paste to place your diagram in your WORD document. You may then stretch it to size, and add a figure caption

**C] Potential Problems**

- 1) ITS makes it impossible to save to the desktops or access most files from the desktop.
- 2) So, it is best to work off a memory stick, or zip drive and save all files to your own memory device.
- 3) If you would like to save documents to the computers in OLIN 322, place them in the GEO 202 folder, which is located at *C:\Documents and Settings\Geostudents\Geo 202*. If you email yourself files, you should save them to this folder.