IGPET INSTRUCTIONS

Use the **IGPET** Computer Program that is on OSX Mac's in the min/pet lab (Room 303) and the structure/tectonics lab (Room 311). Find the folder **Igpet 2006** in the Applications.

1) Open the program by double clicking on the **Igpet06** icon (an erupting volcano!) in the **Igpet 2006** folder. In response to the window "use preferences etc" select **OK.**

2) Select **FILE** from the menu bar at the top of the screen. Open any of the data files for this lab. Note the screen remains the same, but the file name with the rows and columns appears in the title bar at the top of the page.

3) Choose **Plot** from the main menu bar at the top of the page.
   a) Select **Diagrams** from the **Plot** menu.
      You will be given a long list of types of plots to choose from.

   b) Choose **rock type** to find a TAS plot.
      Choose **IrvineBaragar** to find an AFM (thol vs calc-alk) diagram
      Choose **Fenner&Harker** to plot Fenner and Harker diagrams
      Choose **DiscrimBasalt** and you will get a long list of types of discriminant diagrams. Try any for which you have the necessary trace element analyses.

   c) Once you have plotted a diagram that you think is useful, select **Print** from the menu at the left of the main screen. You may have to play with the resize number to get the diagram to fit a page.

4) Go back to **Plot** in the main menu bar at the top of the page.
   a) Select **TRI** to make a ternary (triangle) diagram. The program will walk you through selecting the variables that you want at each corner of your ternary diagram.
   b) Select **X-Y** to plot an X-Y diagram. Again, the program will walk you through selecting the variables for your X and Yaxes. Note that you may choose to plot a ratio of elements on either or both of the axes.

5) Once again starting at **Plot** in the main menu bar,
   a) Select **Spider** to plot any trace element spider-type diagram.
   b) You will be given a list of options that are based on different normalization schemes. Try starting with Chondrite and NMORB.