

## Procedure for Developing an XY Scatter Plot in Microsoft Excel Such As Is Used in Charting Vertical Temperature Profiles

1. Do not select a block of data with your mouse as you may be accustomed to do with when you are making a typical line graph. Instead, just click on the graph icon (top menu bar) and select XY (Scatter) plot.
2. Select "Next" and note that "Data Range" is empty (leave it that way).
3. Select the "Series" window at the top. Then, select "Add" and you will get entry options for "Name", "X-Values" and "Y-Values." Do as follows:
  - a. Click on the red arrow box to the right of "Name" and select the "Name" of the first column of data you wish to graph (e.g. a set of Temperature data, not "Position") and select "Enter."
  - b. Repeat for "X-Values" and here you will drag over the column of data corresponding to the "Name" you have chosen in (a.). Then, select "Enter"
  - c. Repeat for "Y-Values" and drag over the column with "position data" Select "Enter"
  - d. If you have another set of temperature data, begin above again by selecting "Add" and enter name and data sets (series) corresponding to a. thru. c. above.
4. When you have finished adding series (data sets) to your chart, you can add titles and eventually select "Finish"
5. If the chart has points plotted but not connecting lines, just right-click on top of one of the data points to highlight that series and a window will open up in which you can select "Format Data Series."
  - a. Under that window, select "Pattern" and in the left area which relates to "Line" properties, change "None" to "Automatic"(or you can choose "Custom" and select the color and style and weight of line).
  - b. When finished, select OK and you should have lines connecting points. Repeat for any other series.

This should give you a chart that is close to what is needed.