# Agilent 6890N Gas Chromatograph (GC) with FID Detector

Updated November 14, 2017

Instrument instructions can be found at:
http://academic.bowdoin.edu/chemistry/resources/instructions.shtml

If you have any problems with the instrument or would like to get trained, please contact
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a. **Read instructions carefully before using instrument**. Reading the bold sentences in each category will tell you what you need to know to run the instrument.
   i.

a. **Program should be in <u>Method and Run Control</u> view for the following steps**.
    i. Go to View > Method and Run Control.
b. **Load method** (File > Load > Method) OR (Method > Load Method)
    i. To create a new method, search for the default method (C:\Chem32\1\METHODS\def_GC

c. **Load sequence** (Sequence > Load Sequence Template) or create a new sequence (Sequence > New Sequence Template).

d. **Edit Sequence Table** (Sequence > Sequence Table).

   i. If you have several samples to enter, use the Insert/FillDown Wizard. If you have only a few samples, skip to step ii and enter information manually.

      1. Enter information in Line 1 for your first vial in the sample table.

         i. Location location of sample in autosampler tray.

         ii. Sample Name name of sample.

         iii. Method Name select method.

i m0 g0 G[30B1>]TETQ0.0000091sW*nBT/F1 12 T[ )]271 0Gf0 gVoluTm0 g0

f. **Save sequence** (Sequence > Save Sequence Template As > create a new sequence name). If saving changes to current sequence template, Sequence > Save Sequence Template.

a. Go to RunControl > Sample Info
b. Data path should be C:\Chem32\1\Data\
c.
one. Click **Yes**.
d. In **Signal 1**: Type in a data file name. (This will be a .D file.)
e. Enter Vial/Location, Sample Name, Sample Amount (actual injection amount is determined by the injection inputted into the method), add any comments you feel is necessary. This information will appear on the report.
f. Click **OK**, if not starting the run immediately, or click **Run Method** to start right away.
g.

b. **Select Integration task icon**  .

c. **Adjust x and y scale** (Graphics > Signal Options).
   i. In Ranges section, enter minimum and maximum values, or use **Full Range**.
   ii. Click OK.

d. **Integrate spectrum.**
   i. Auto integrate (Integration > Auto Integrate) A window will pop up to enter
   **Start End 0**

   ii. **Edit/Set Integration Events table** Click this icon to manually edit integration events for a particular signal and/or save to the method for fu up to enter