DOWNLOADING IRGA (infra red gas analyzer)
DATA TO A WINDOWS XP MACHINE WITH A 9-PIN SERIAL PORT
Updated 4/16/2009 SJT

Data must be removed from the IRGA when measurements are complete. If the IRGA memory is full, it will no longer record data. The following procedure allows the memory to be unloaded onto the windows machine labeled tonsor5 then transferred to the Dual G4 Arabidopsis Mac, the main data storage unit for the lab. The specific computers may change over time. Look for a windows machine with a LiCor cable plugged into its 9-pin serial port. Ask if you do not know which machine is used for the main data storage unit at this time.

Note: You must read the Primer manual Sections 2-5 before you should try this task. The manual is located in the wall cabinet with glass doors to the right of the fridge.

Step one:
Disconnect the green console from IRGA head (section 2 of the "Primer" manual) because the head is connect to the cuvet (bottle) array.
   a. Go to "WELCOME" menu, select "quit open IRGAs off",
   b. disconnect the power cord
   c. reconnect battery cable to the battery on the IRGA
   d. disconnect data plugs (larger, multi-pin connectors)
IRGA must be on battery power at the end of this step.

Step two: Carry the IRGA to the counter next to the Windows machine that will be used for data transfer.

Step three:
Find the gray power cord with 9-pin RS232 plug on one end and the other end should be connected to a serial plug converter. (labeled for LI-1000 PC/AT). Plug the RS232 end into the corresponding port on the IRGA, and the serial plug into the serial port on the computer.

Step four:
Go to the desktop the computer and locate the program called "FX". Open the program.

Step five:
Move the data from the LI-6400 to the desktop of the computer. Verify the file is on the desktop by clicking it and opening it in Excel. When you have verified this, move on to the next step.

Step six:
Delete the file from the IRGA:
Go to the pull down tag in FX "LI-6400".
Click 'delete tagged items'.
Then select defragment user in the "LI-6400" menu.

Step seven:
Transfer the file from the windows computer to the main data storage Mac. If you do not know in what folder it should go, ASK. Label the file according to the pre-determined naming protocol for your experiment. Since you are reading this well ahead of time, you can bring this up at the lab logistics meeting.

Step eight:
Close the Fx program on the windows machine; disconnect the IRGA and return it to the bench near the cuvette apparatus.