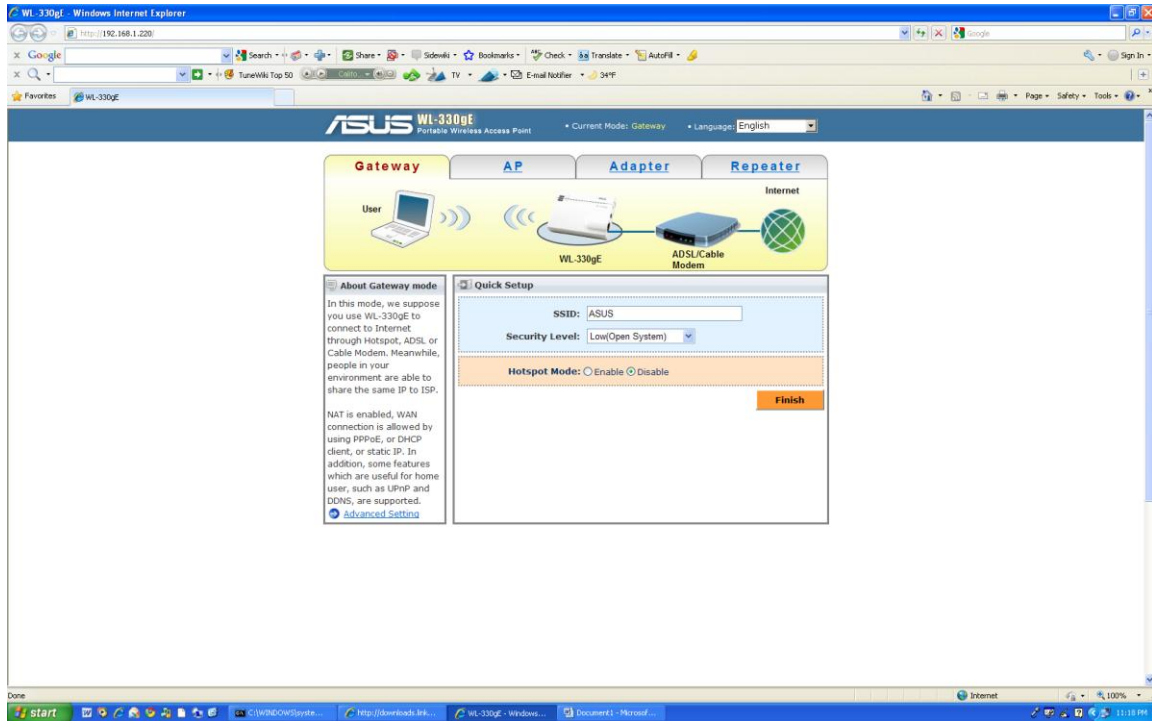ASUS WL-330gE Setup

Jason at NSS reserved MAC Addresses for Robots and ASUS Bridges:

- 1463EB1
  - ASUS Bridge MAC: E0-CB-4E-5D-E6-EA:
  - ASUS Bridge IP: 172.18.63.1
  - Robot MAC:00-80-2f-11-e0-29
  - Robot IP: 172.18.63.0 ese-robot-1463eb1.wufi.wustl.edu
- 14BCCCF
  - ASUS Bridge MAC: E0-CB-4E-1B-95-1A
  - ASUS Bridge IP: 172.18.63.3
  - Robot MAC: -----
  - Robot IP: 172.18.63.2 ese-robot-14BCCCF.wufi.wustl.edu
- 148CCC1
  - ASUS Bridge MAC: E0-CB-4E-5D-E2-50
  - ASUS Bridge IP: 172.18.63.5
  - Robot MAC: -----
  - Robot IP: 172.18.63.4 ese-robot-.wufi.wustl.edu
- 1463EAB
  - ASUS Bridge MAC: E0-CB-4E-5D-E2-EB
  - ASUS Bridge IP: 172.18.63.7
  - Robot MAC: -----
  - Robot IP: 172.18.63.6 ese-robot-1463EAB.wufi.wustl.edu
- 14BCCC5
  - ASUS Bridge MAC: E0-CB-4E-5D-E2-10
  - ASUS Bridge IP: 172.18.63.9
  - Robot MAC: -----
  - Robot IP: 172.18.63.8 ese-robot-14BCCC5.wufi.wustl.edu

Configuration Instructions for WUFI

1. Reset device by holding the reset button for 10 seconds. Then turn off for 10 seconds and plug Ethernet cable into PC and turn on.

2. Browse to 192.168.1.220
   a. Username: admin
   b. Password: admin

3. Select wunoreg and click on Connect. You will lose the connection to the ASUS at this point. The MAC addresses are in the QIP tables, so the IP will be automatically assigned according to the table above.
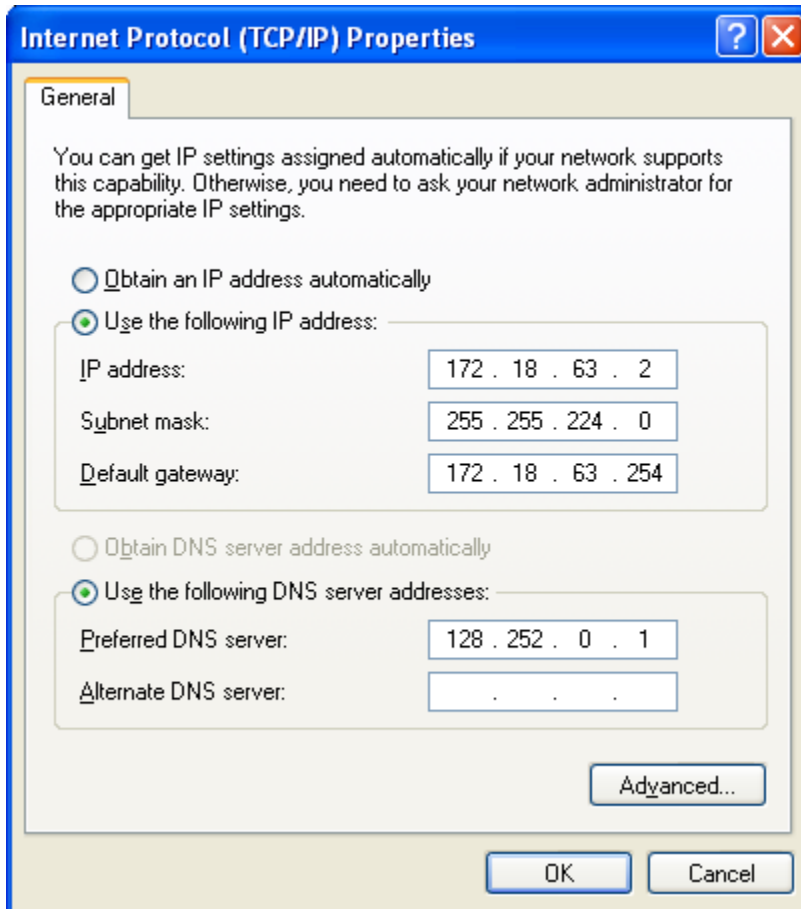
4. To test, change the network settings – Use the IP of the robot you are going to connect the bridge to. Make sure it is off the network.
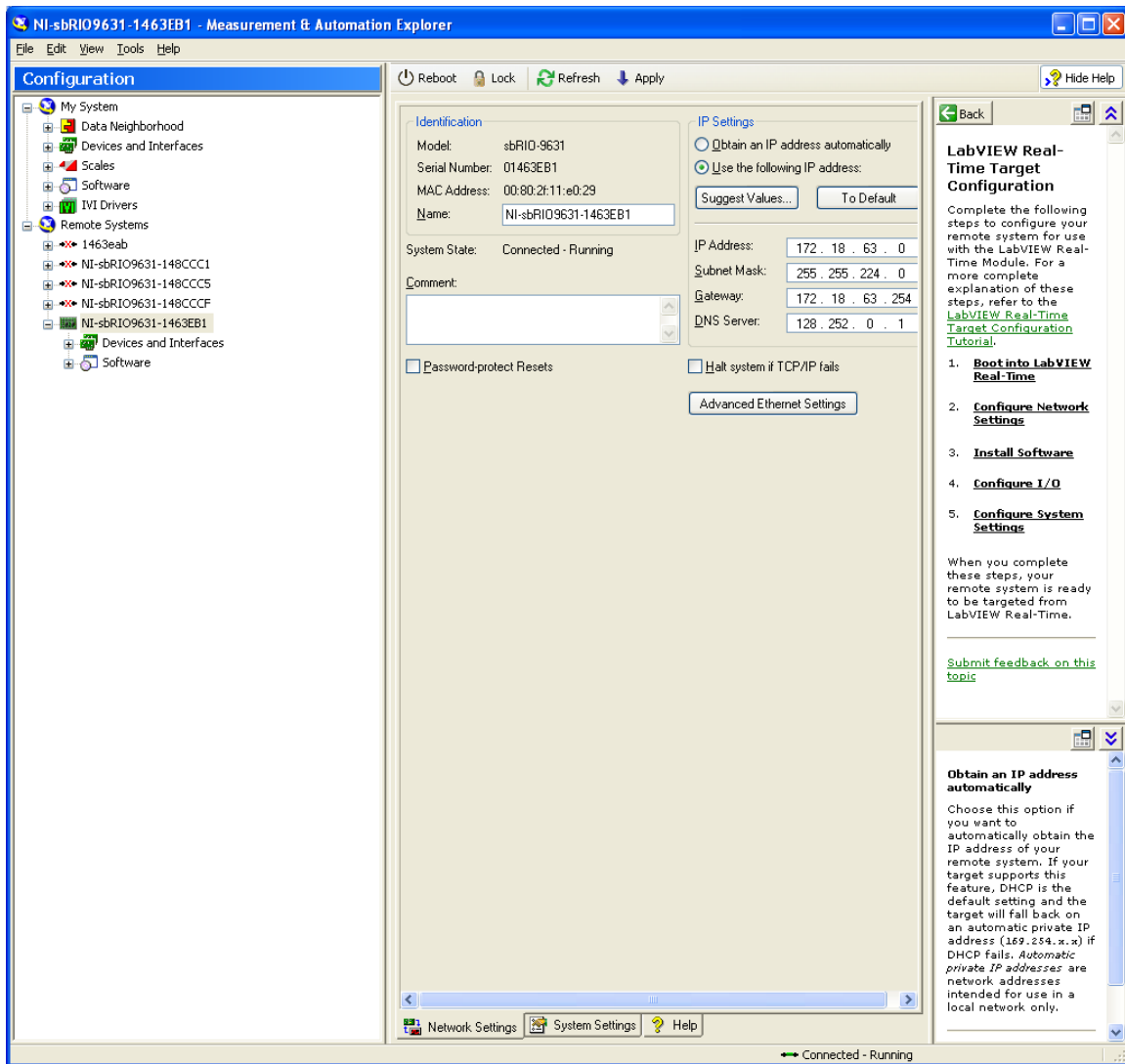
5. Now configure the robot to use the IP from the table above. If you do not know the IP of the robot, then you need to reset the IP. Do this by by turning ON (Down) DipSwitch -3 and pressing the Reset switch. Then hit refresh in MAX.

Configuration Instructions for WEP Wireless Network
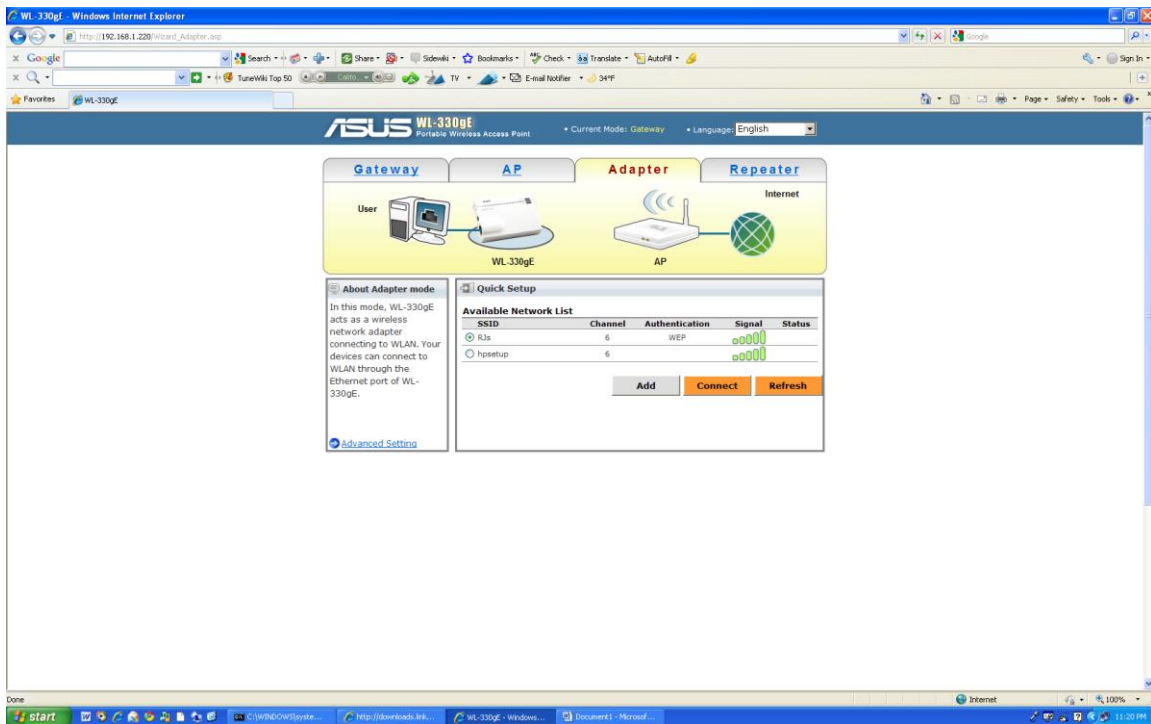
1. Click on the Adapter tab, select the SSID and Click Connect. Enter the WEP password if prompted. However, this doesn't seem to work so you have to add it again on the Advanced Settings page.
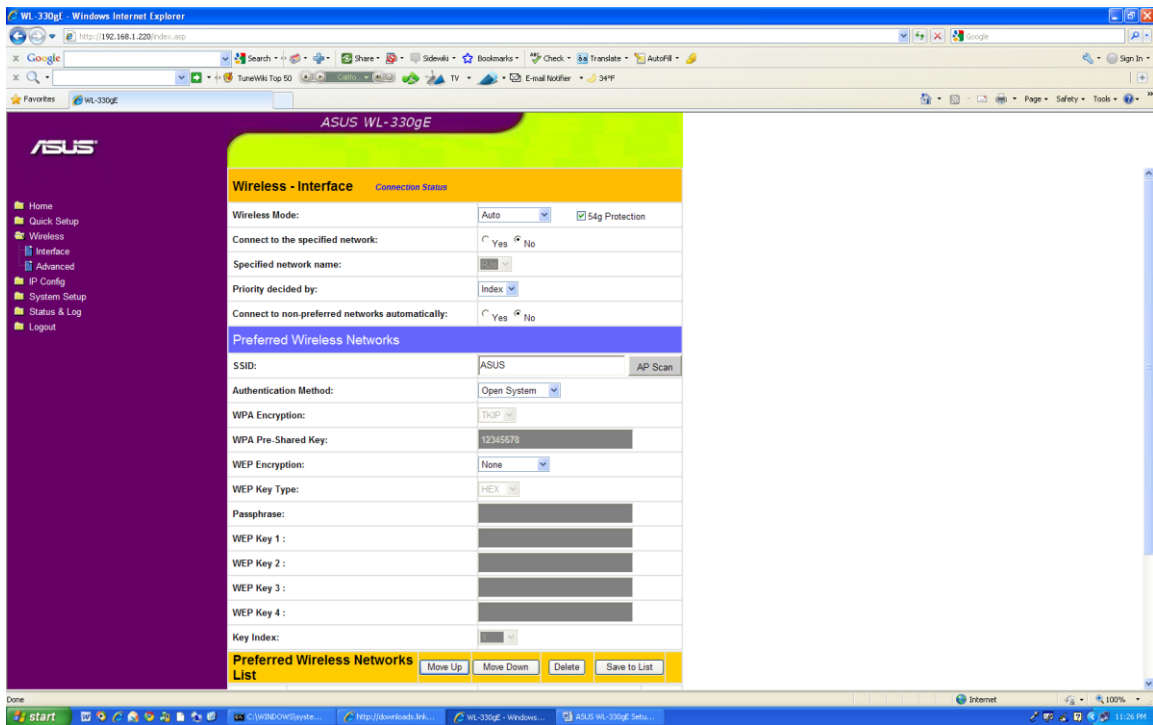
2. Click on Advanced -> Wireless -> Interface. Click on AP Scan

3. Click Select for the correct SSID.
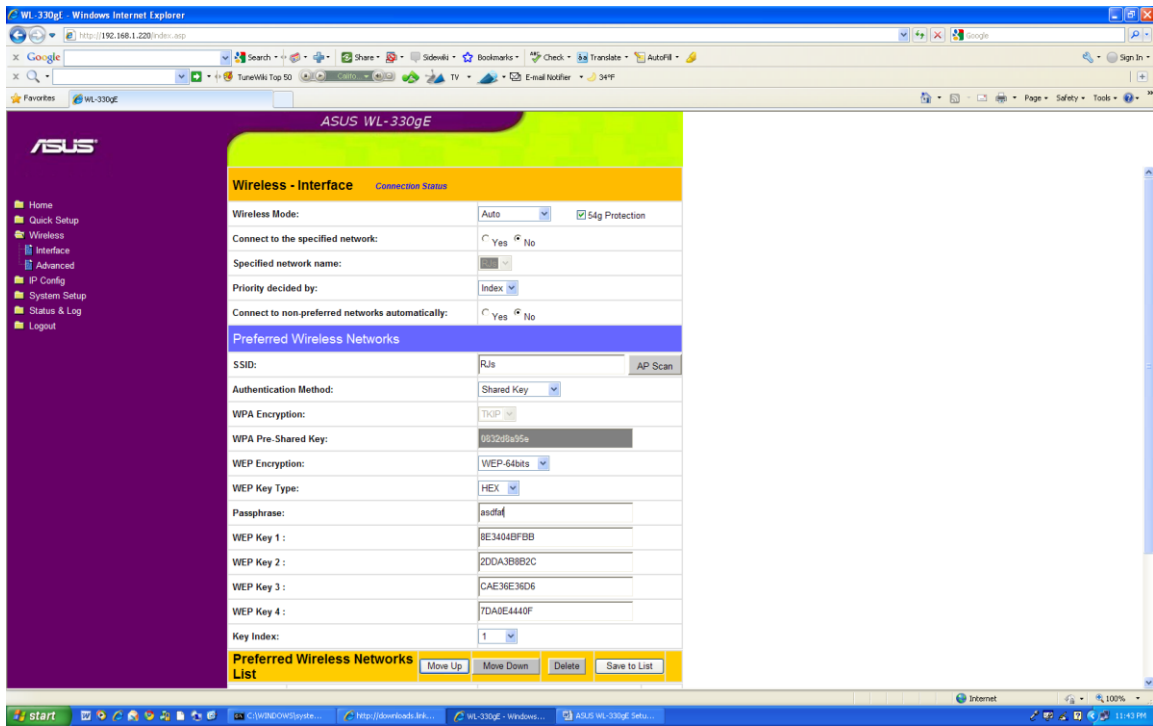
4. Enter either passphrase or WEP key directly and click Save to List and Apply.
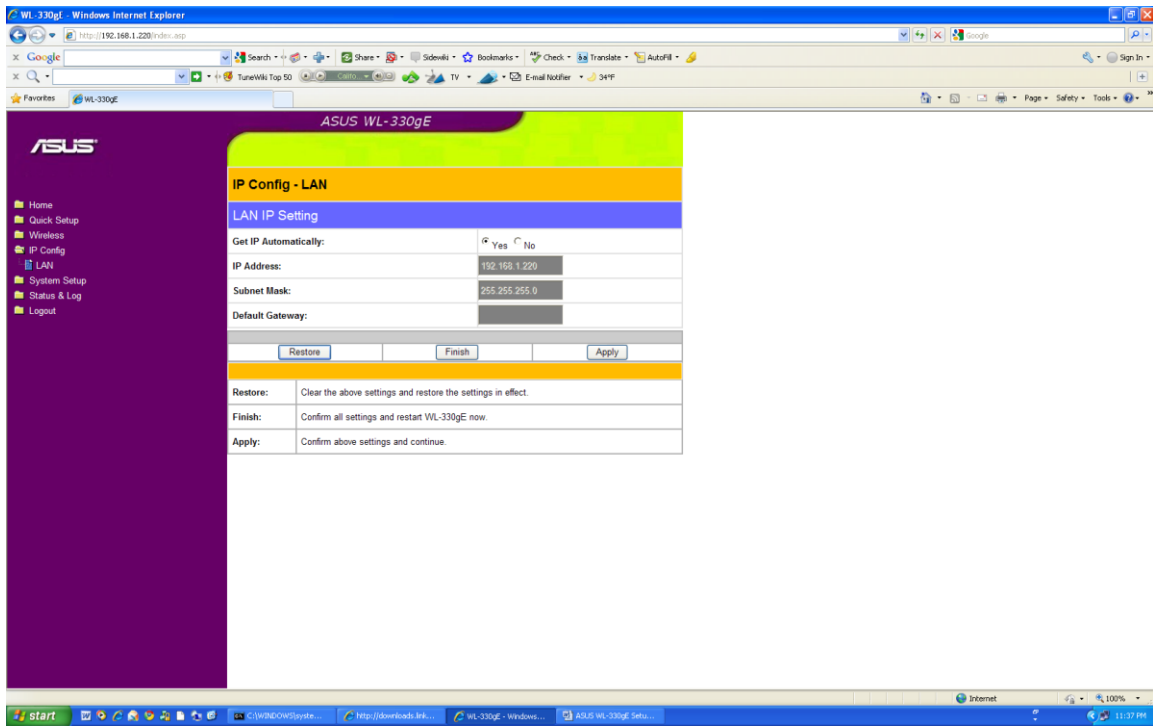
5. Click on IP Config -> LAN and check Get IP Automatically and Finish.
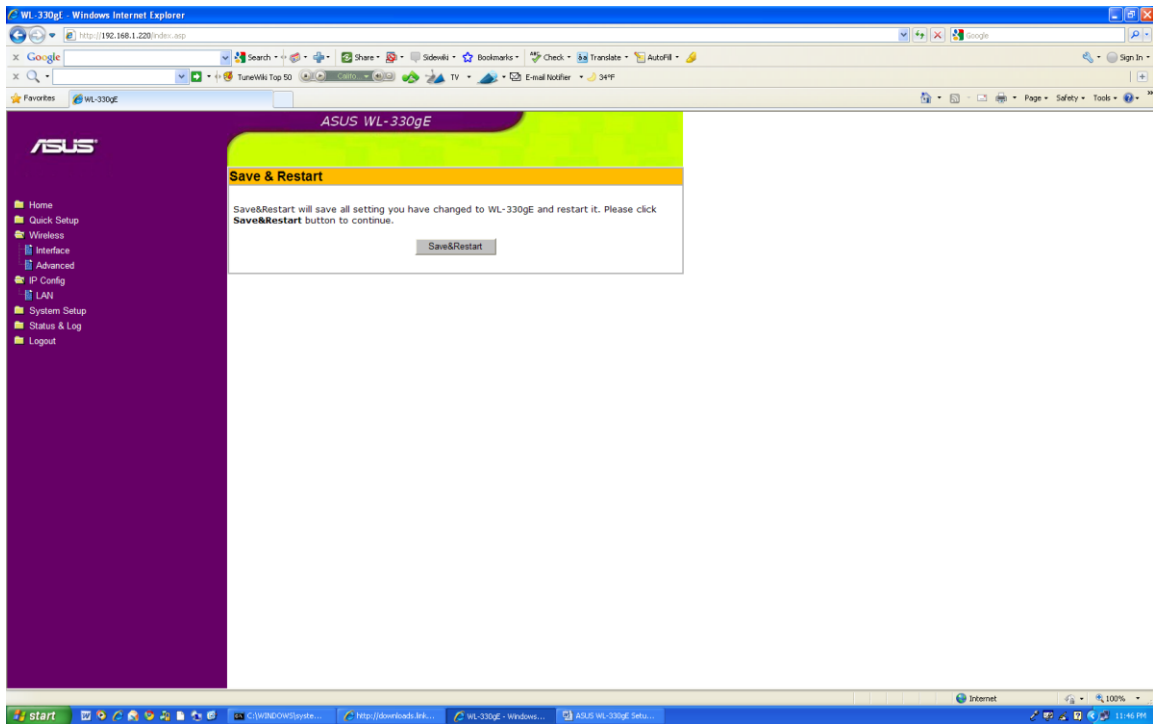
6. Click Save & Restart. After it gets to 100% it starts clicking. Unplug the adapter for 10 seconds and plug it back in.

```
 C:\WINDOWS\system32\cmd.exe                                                    _ □ ✕
        Connection-specific DNS Suffix  . :
        Autoconfiguration IP Address. . . : 169.254.18.31
        Subnet Mask . . . . . . . . . . : 255.255.0.0
        Default Gateway . . . . . . . . :

C:\Documents and Settings\Richter-Jacobs>ipconfig

Windows IP Configuration


Ethernet adapter Local Area Connection:

        Connection-specific DNS Suffix  . :
        IP Address. . . . . . . . . . . : 192.168.2.105
        Subnet Mask . . . . . . . . . . : 255.255.255.0
        Default Gateway . . . . . . . . : 192.168.2.1

Ethernet adapter Local Area Connection 5:

        Connection-specific DNS Suffix  . :
        Autoconfiguration IP Address. . . : 169.254.18.31
        Subnet Mask . . . . . . . . . . : 255.255.0.0
        Default Gateway . . . . . . . . :

C:\Documents and Settings\Richter-Jacobs>
```

7. Check and make sure that the adapter pulls a valid DHCP IP.
8. When you plug it into the sbRIO, make sure you cycle power on the sbRIO –
   otherwise it doesn't go out and get a new IP.