CORAL SOFTWARE INSTALLATION AND USER GUIDE

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I. INSTALLING JAVA AND CORAL REMOTE

In order to run Remote Coral, it is necessary to download and install the Java (version 1.6 or higher which includes Java Web Start). Use web browser to access URL **http://nanofab.nist.gov/coral/etc/coral.jnlp** for the Coral Application. Java web start will autolaunch in Internet Explorer. Firefox will return a prompt to open the application with Java web start (*Figure 1*).

Figure 1: Fifefox Java Web Start prompt.

The first time Coral is run, it will ask for permission to trust the Coral Remote Digital signature, published by Nanofab (*Figure 2*). "Check box to Always trust content from this publisher," then click on "Run" to accept. It will then ask for permission to run Coral Remote published by The Legion of the Bouncy Castle (*Figure 3*). "Check box to Always trust content from this publisher," then click on "Run" to accept.

Figure 2: Digital signture dialog

Figure 3: Bouncy Castle security dialog

Refer to instructions for your operating system or web browser for instructions on creating desktop shortcuts.

II. USING CORAL

Launch the application and accept the login banner. Enter a username/password, and press "OK". Once the authentication is complete, the main Coral window will appear.

Before enabling equipment or making reservations **it is necessary to complete the login process**. Scroll down to find the section labeled "Users". Select the first user slot which is not currently enabled. For example, if there is one user currently in the lab, then select the second user slot and go to **Equipment Actions –> Enable** (*Figure 4*).
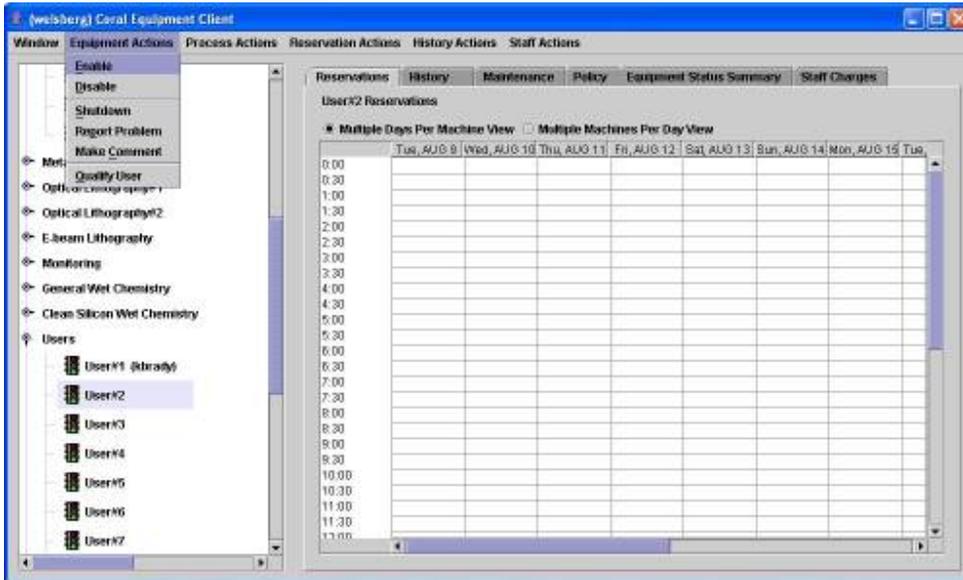

Figure 4: Completing the login process

A dialog box will appear containing machine enable information. Simply click on "OK" to complete the login process (*Figure 5*).
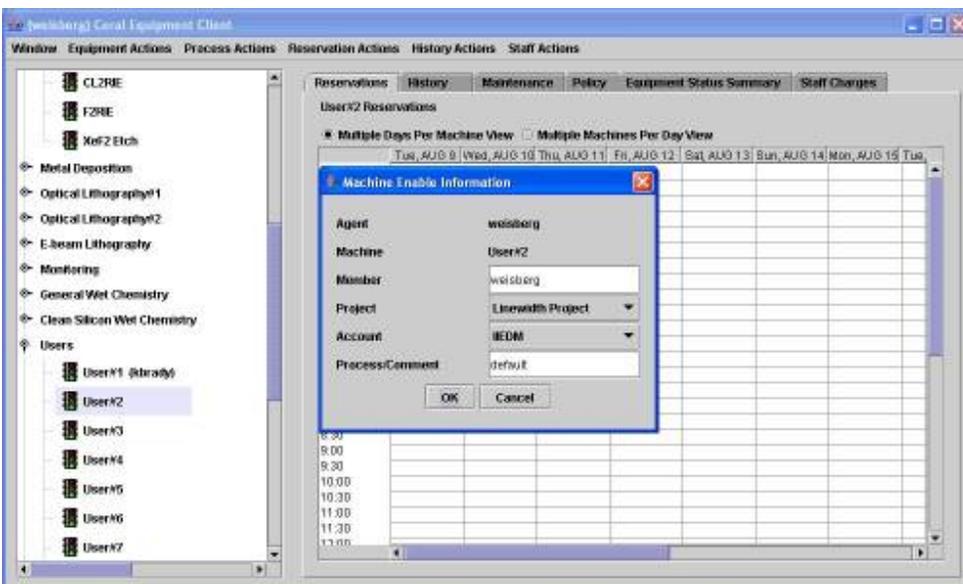

Figure 5: Completing the login process

The login process is now complete. To verify this, ensure that your member name appears in parenthesis following the user slot that was enabled (*Figure 6*).
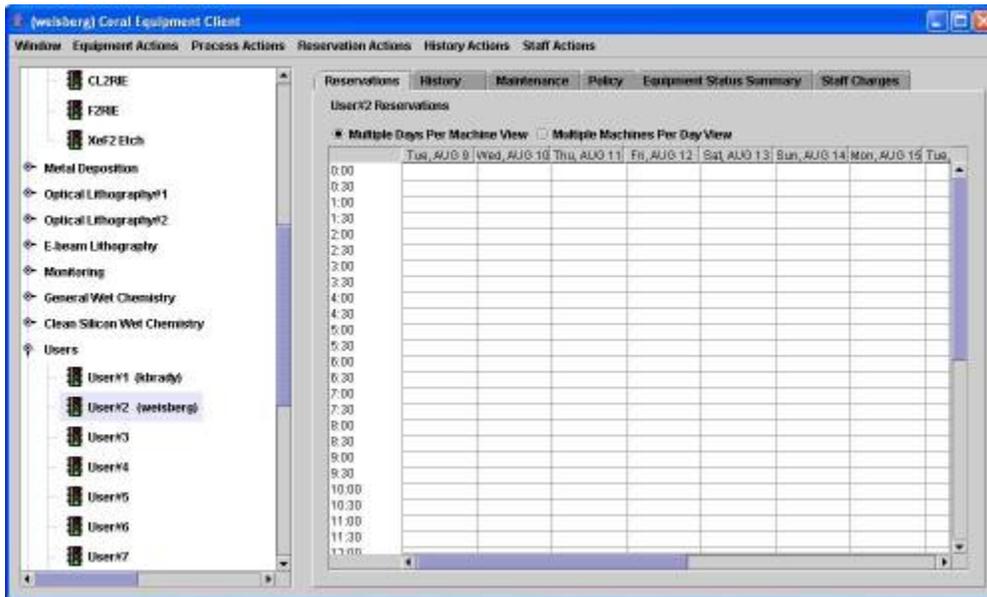

Figure 6: User logged in to User#2 slot

III. MAKING A RESERVATION

Select the name of the machine to be reserved in the left panel. Machines for which you are privileged to use will be marked with an asterisk following the machine name. In the right panel, highlight a block of time to reserve. Click on **Reservation Actions –> Make** to open the machine reservation dialog (*Figure 7*).
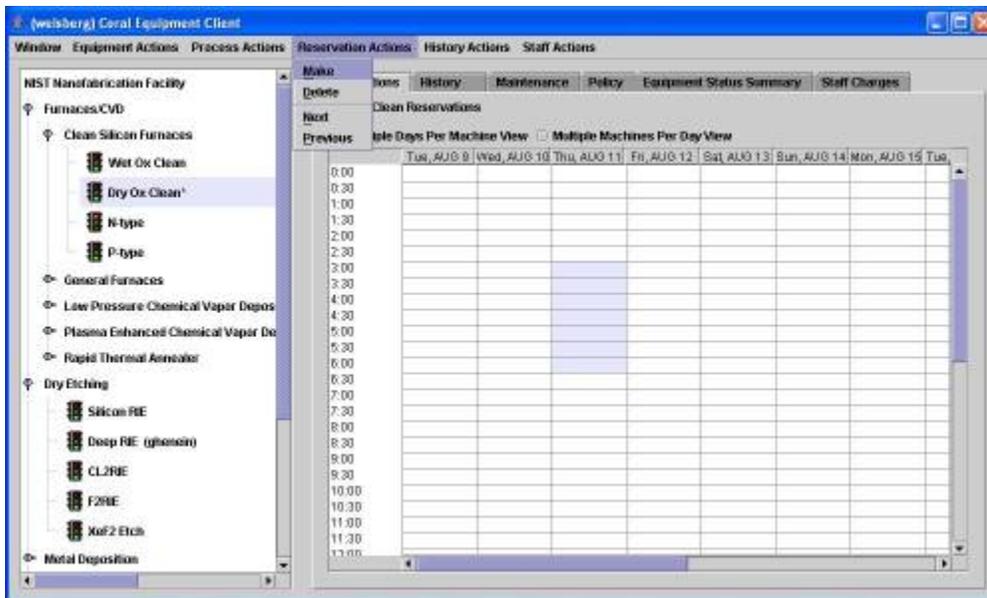

Figure 7: Reserving equipment

Input all necessary information in the reservation dialog. Place any comments about the reservation in the **Process/Comment** field. When finished, click "OK" to complete the reservation (*Figure 8*).
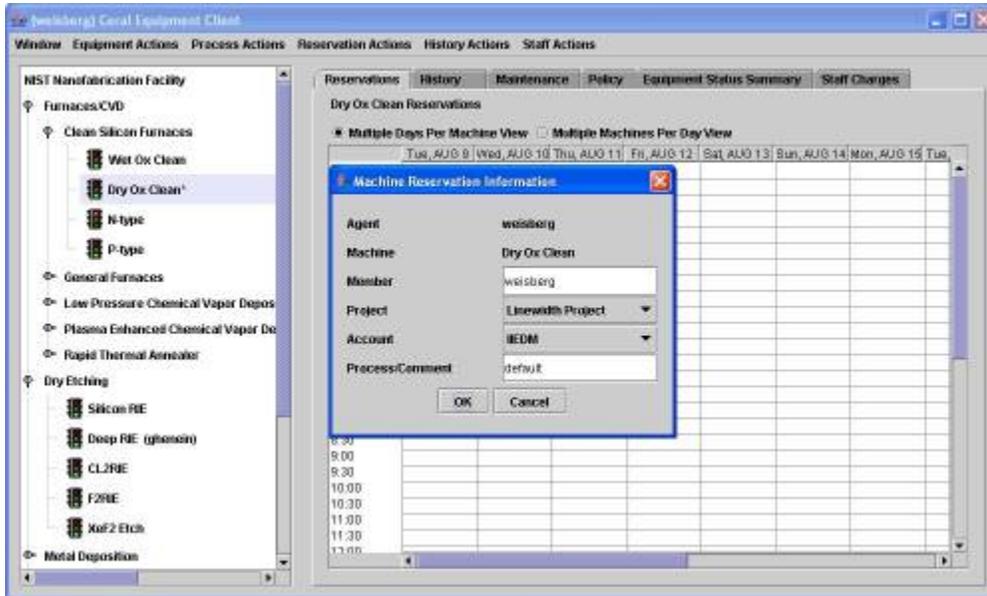

Figure 8: Machine Reservation dialog

When the reservation is complete, your member name will appear in every timeslot of the reservation for the specified machine (*Figure 9*).
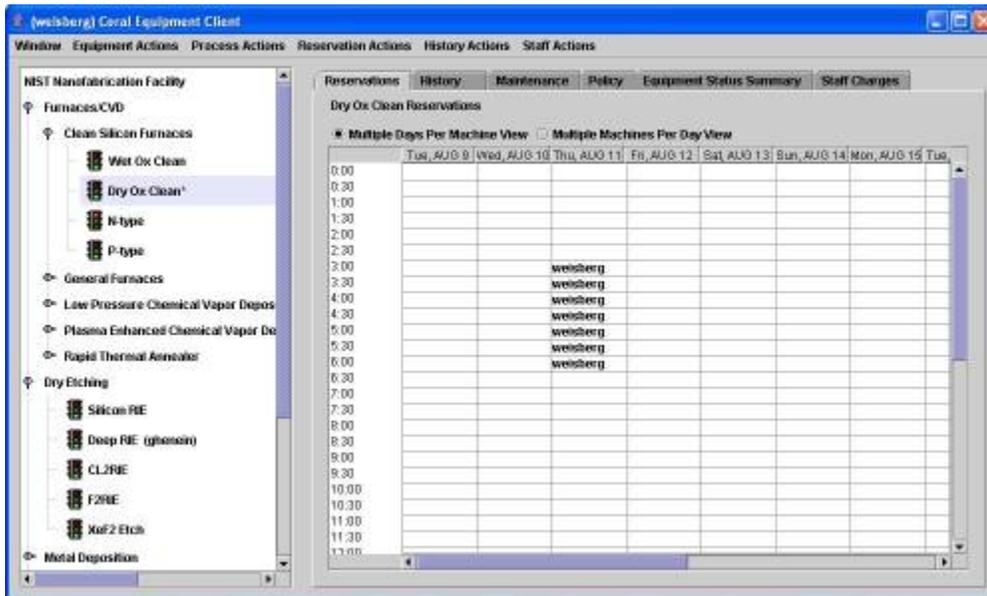

Figure 9: Reservation complete

IV. DELETING A RESERVATION

In the left panel, select the name of the machine from which to remove a reservation. In the right panel, highlight a reservation by clicking on any one of the individual slots within the reservation block. Click on **Reservation Actions –> Delete** (*Figure 10*).
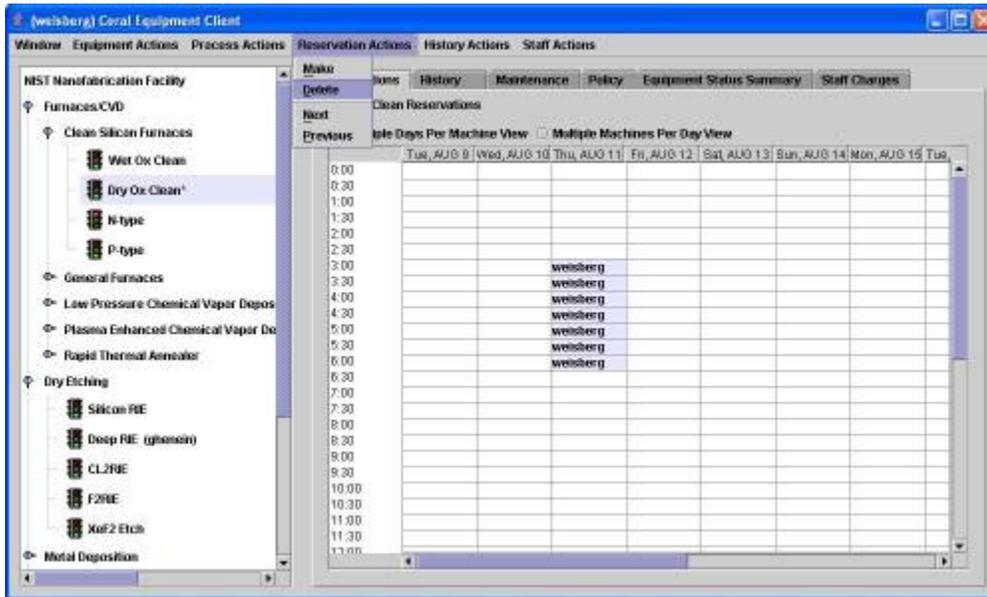

Figure 10: Deleting a reservation

The reservation block will be removed from the schedule (*Figure 11*).
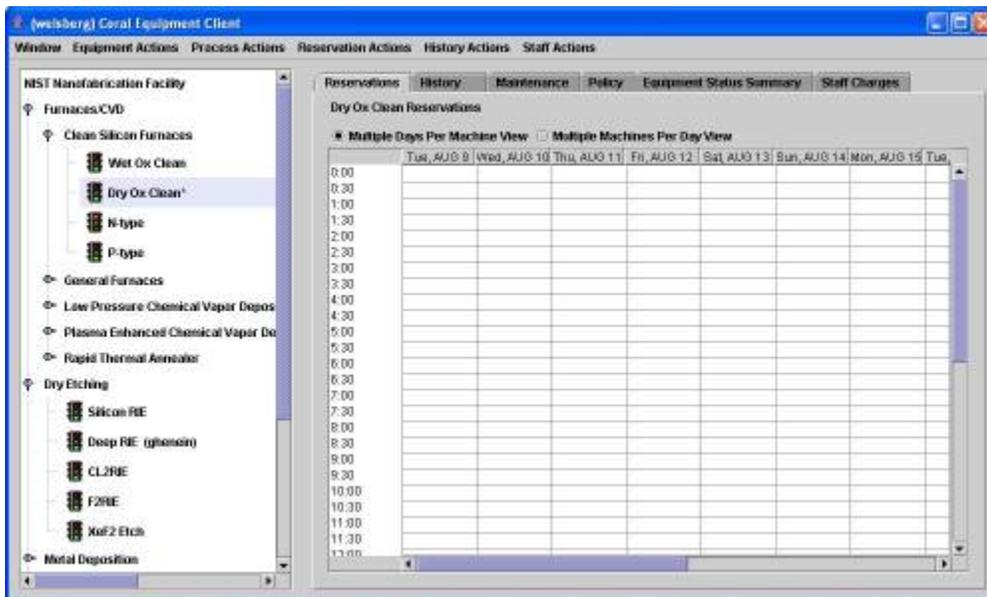

Figure 11: Reservation deleted

V. ENABLING EQUIPMENT

Select the name of the machine to be enabled in the left panel. Machines for which you are privileged to use will be marked with an asterisk following the machine name. Click on **Equipment Actions –> Enable** (*Figure 12*).
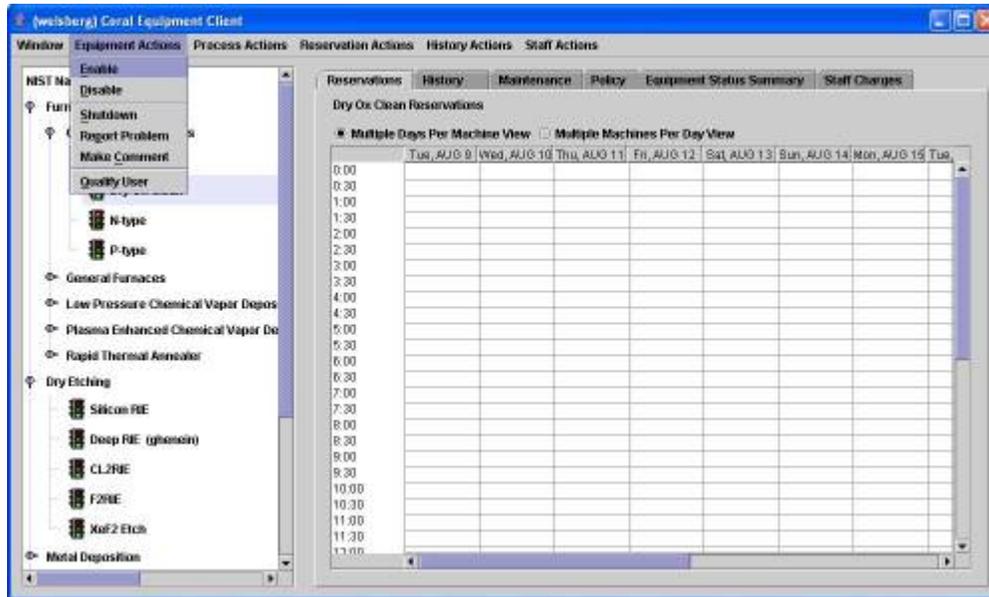

Figure 12: Enabling equipment

Input all necessary information in the enable dialog. Place any comments about the machine usage in the **Process/Comment** field. When finished, click "OK" to enable the machine (*Figure 13*).
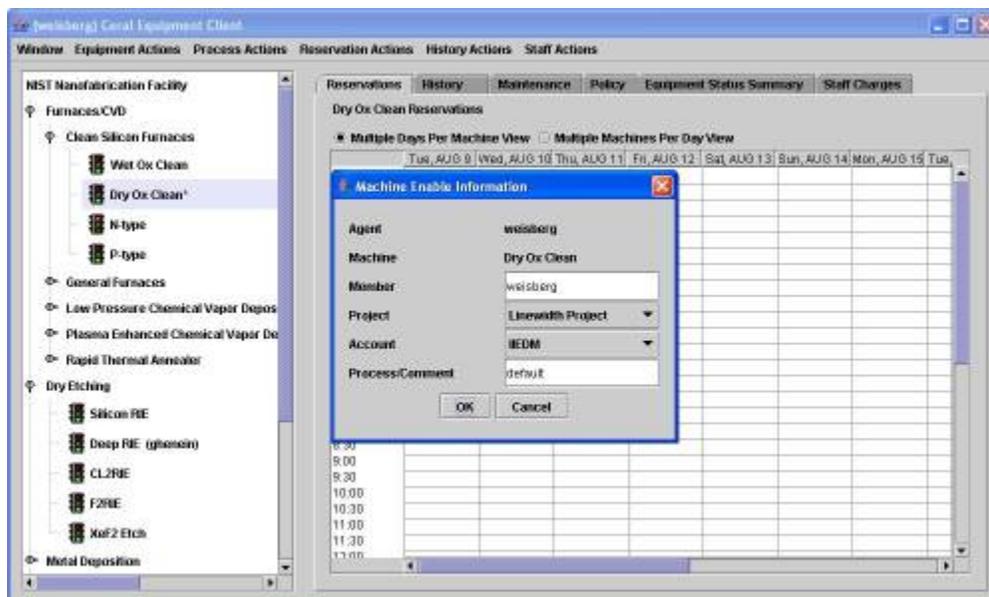

Figure 13: Enabling equipment dialog

When the machine becomes enabled, your member name will appear in parenthesis following the name of the machine (*Figure 14*). The system has now logged the start time of your usage cycle for this machine.
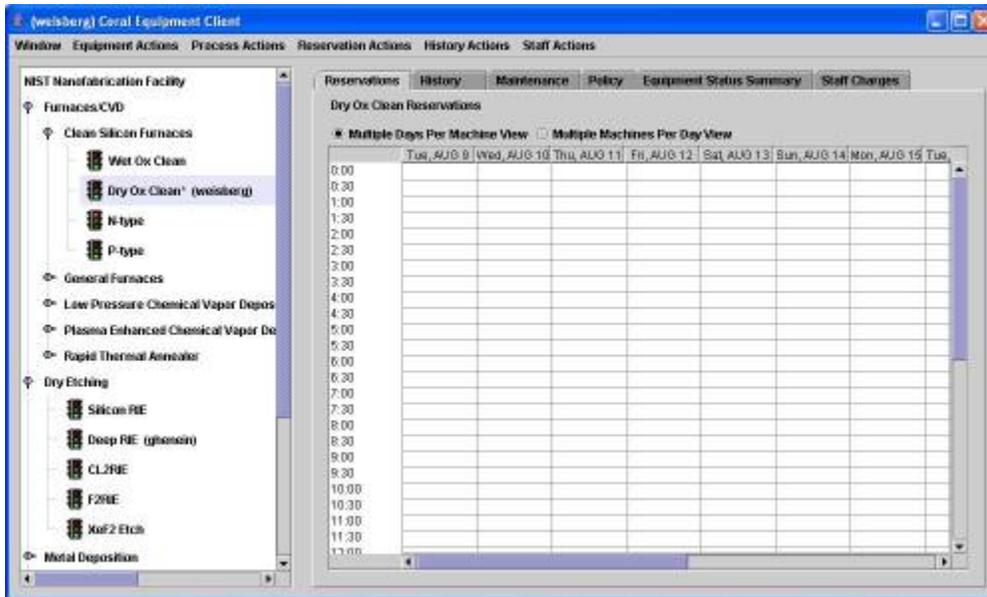

Figure 14: Equipment enabled

VI. DISABLING EQUIPMENT

Select the name of the machine to be disabled in the left panel. Click on **Equipment Actions &ndash> Disable** (*Figure 15*).
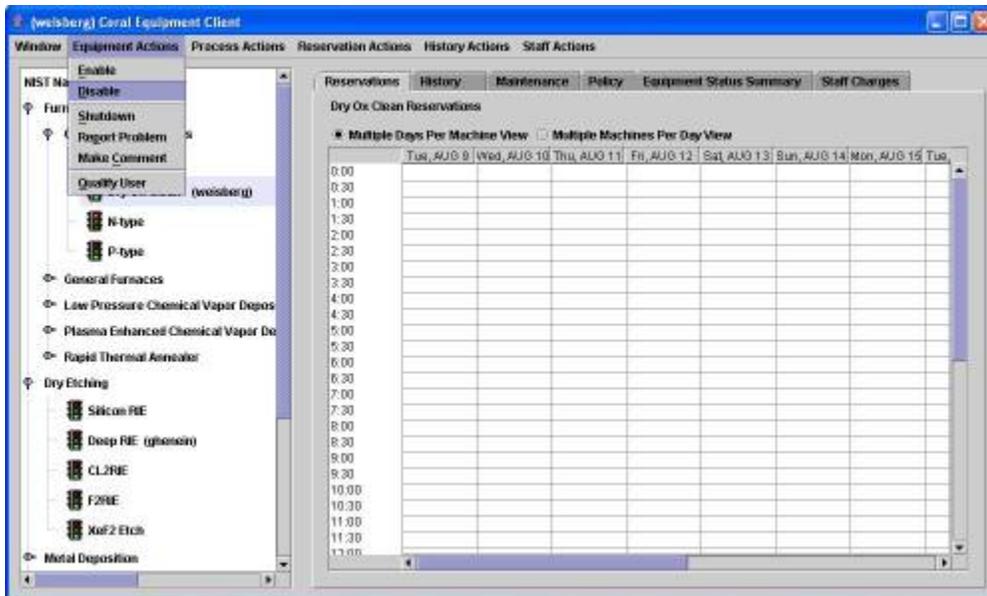

Figure 15: Disabling equipment

When the machine becomes disabled, your member name will no longer be displayed following the machine name (*Figure 16*). The system has now logged the end time of your usage cycle for this machine.
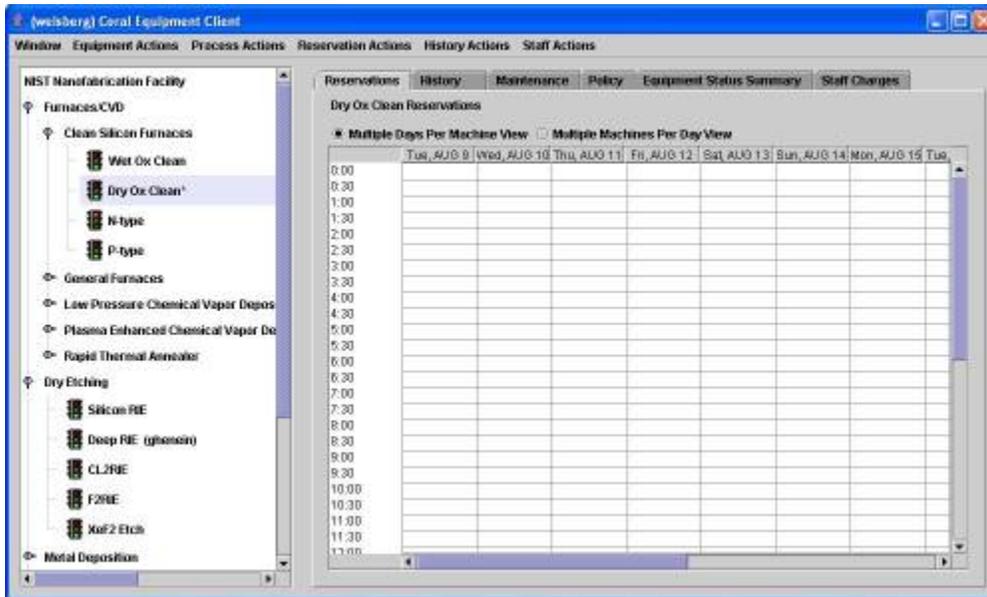

Figure 16: Equipment disabled

VII. REPORTING A PROBLEM

In the left panel, select the name of the machine which has a problem to be reported. Click on **Equipment Actions –> Report Problem** (*Figure 17*).
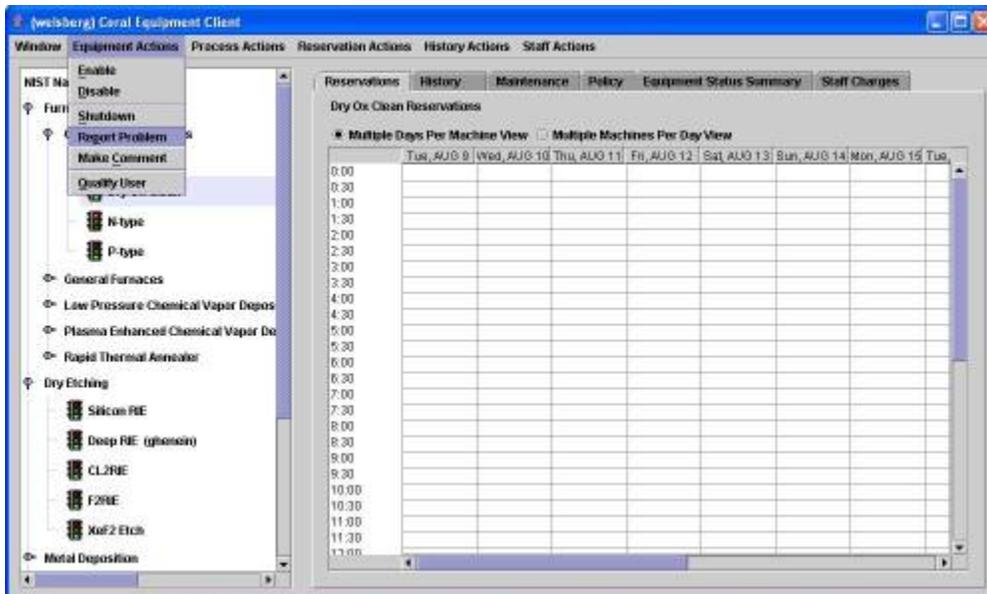

Figure 17: Reporting a problem

Input all necessary information in the problem report dialog. When finished, click "Submit" to submit the problem report (*Figure 18*).
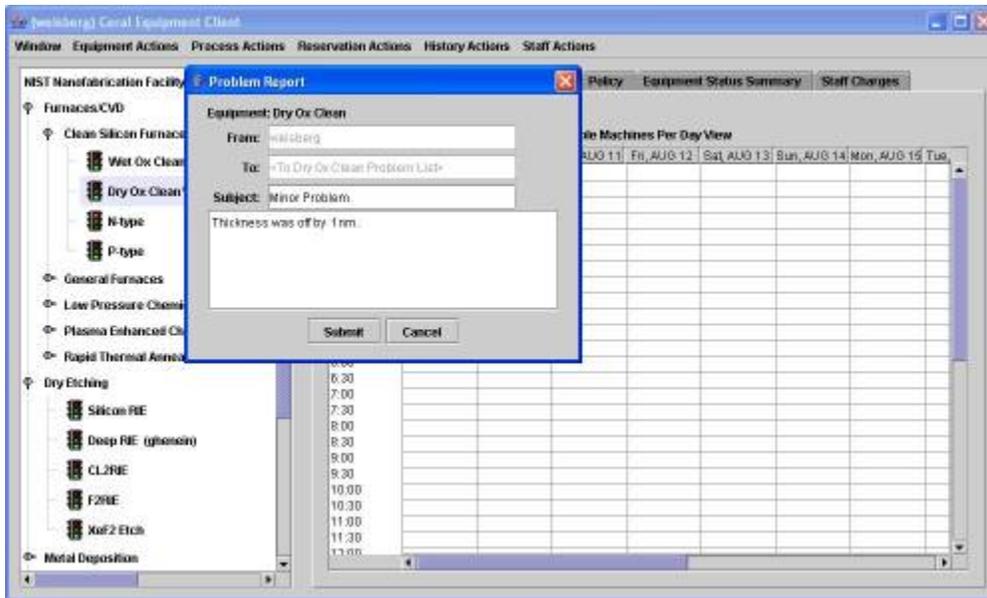

Figure 18: Problem report dialog

The status indicator beside the machine name will turn yellow indicating a problem has been reported (*Figure 19*). The machine is still available to be enabled/disabled as the problem is not critical.
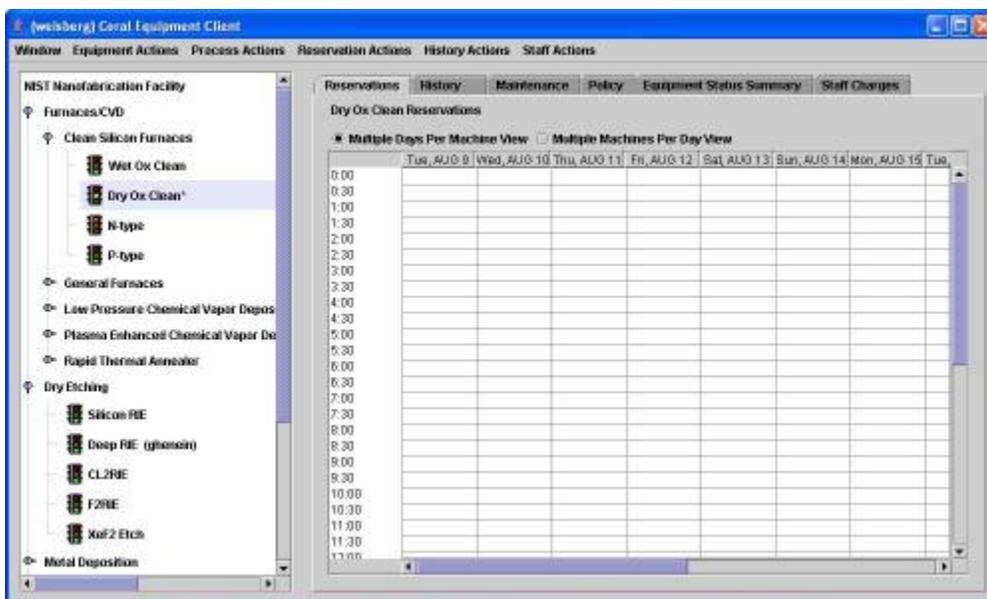

Figure 19: Problem logged, stoplight indicator now yellow

VIII. SHUTTING DOWN EQUIPMENT

In the left panel, select the name of the machine which has a critical problem to be reported. Click on **Equipment Actions –> Shutdown** (*Figure 20*).
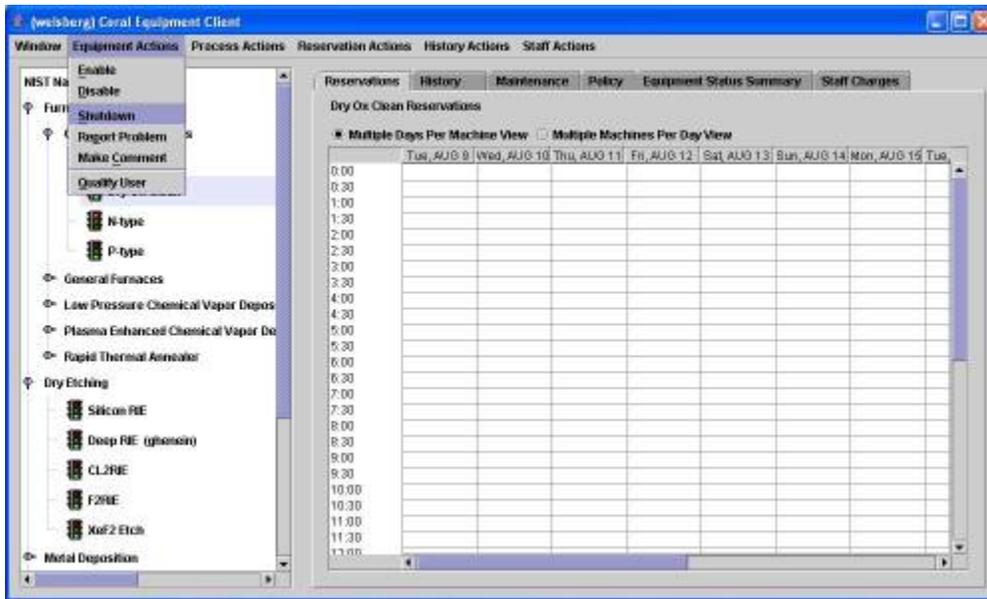

Figure 20: Shutting down equipment

Input all necessary information in the problem report dialog. When finished, click "Submit" to submit the problem report (*Figure 21*).
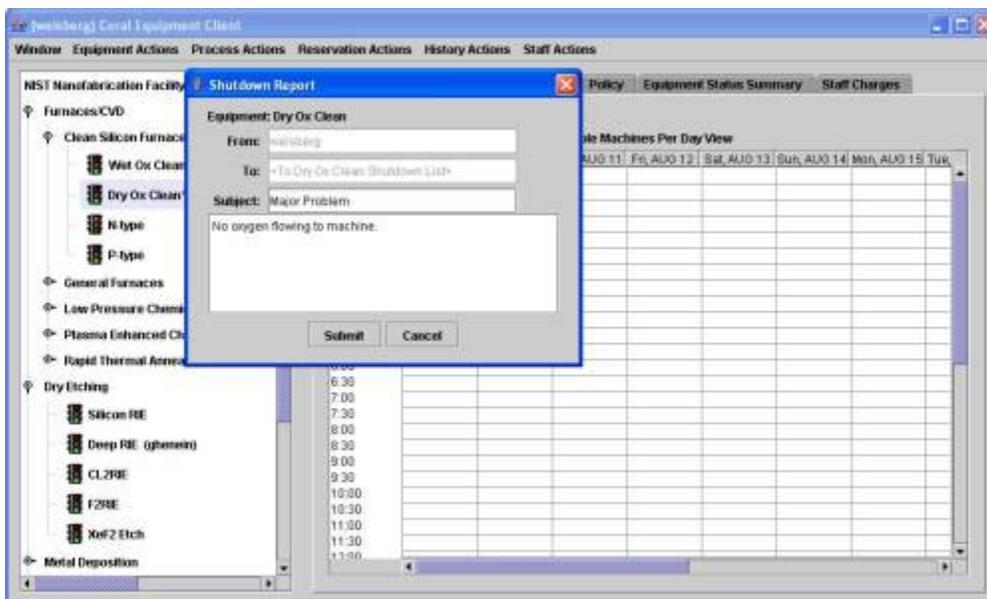

Figure 21: Shutdown report dialog

The status indicator beside the machine name will turn red indicating a critical problem has been reported (*Figure 22*). The machine is not available to be enabled/disabled until the problem is remedied by a staff member.
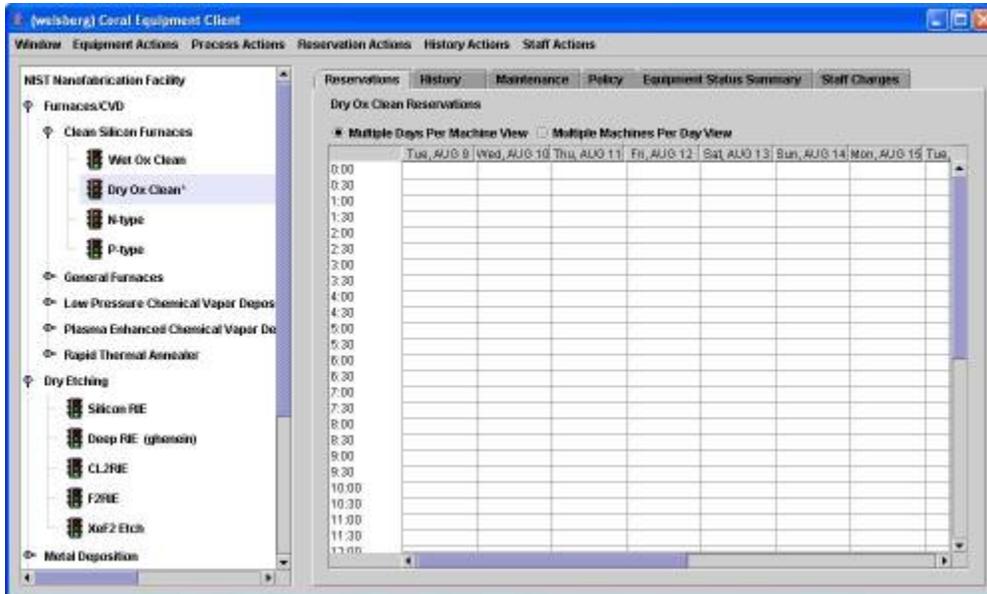

Figure 22: Problem logged, stoplight indicator now red

IX. UPDATING USER INFORMATION

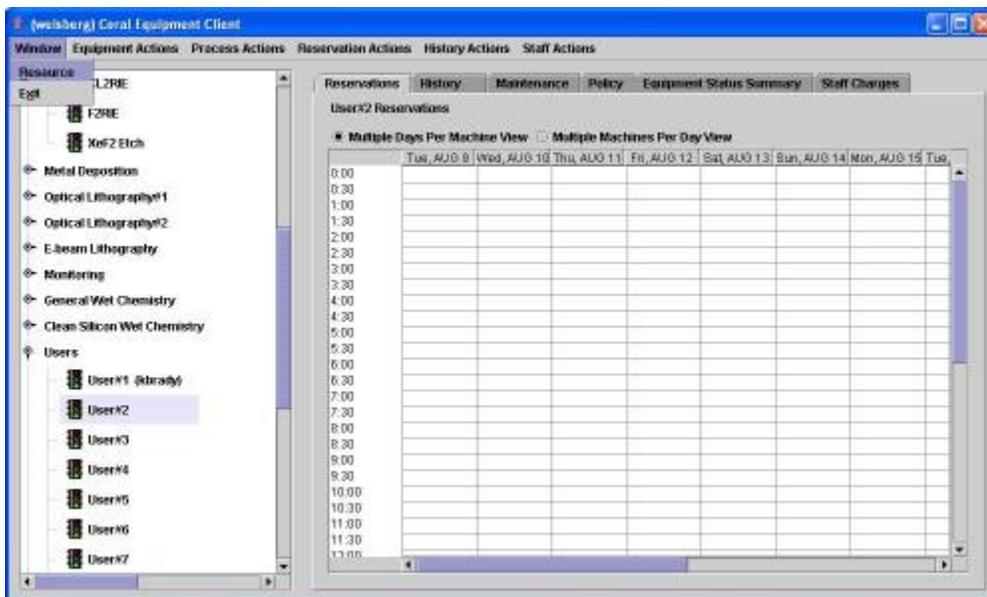Open the Resource Client by clicking on **Window –> Resource** (*Figure 23*).

Figure 23: Opening the Resource Client

The Resource Client will initially display a panel on the left for searching and a panel on the right for viewing results. To view all the members in the system, type an asterisk into the input field and press "Search" (*Figure 14*). A listing of all currently active members will appear in the left panel.
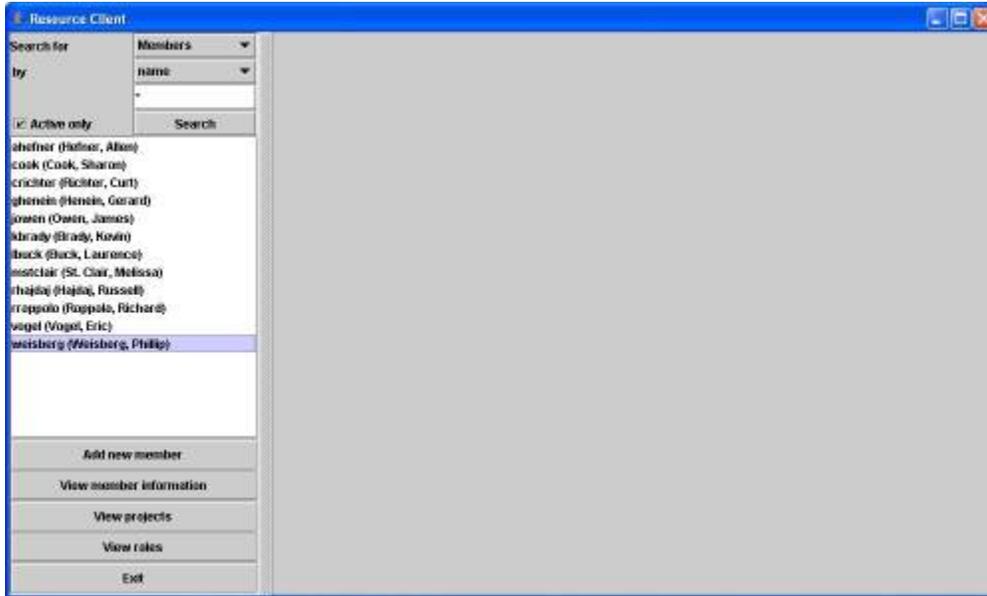

Figure 24: Searching for all members in the Resource Client

Highlight a particular member and click on "View Member Information" to display the user's information in the right panel (*Figure 25*). If you are viewing your own record, the information will be editable.
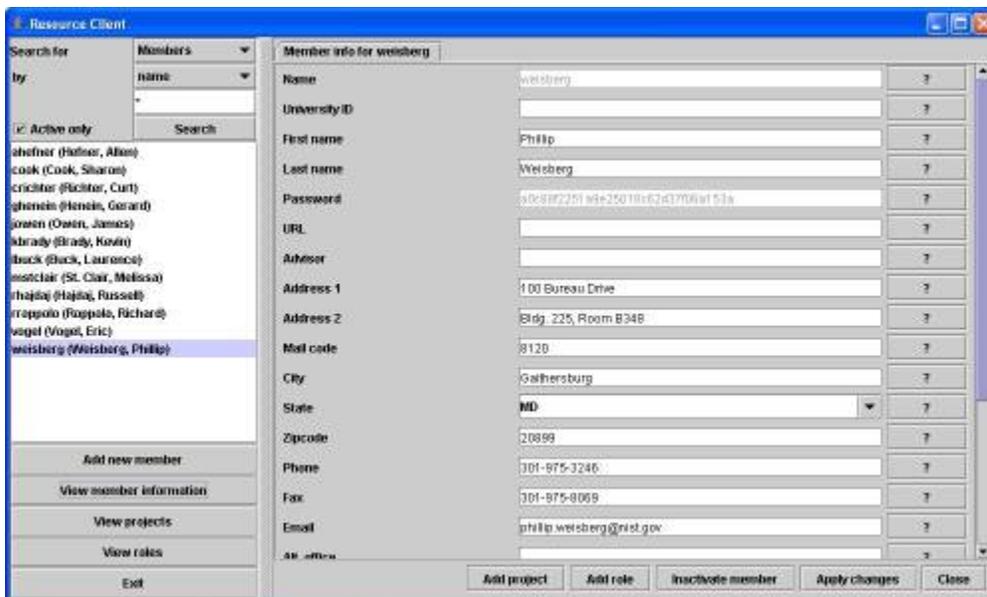

Figure 25: Viewing/Editing user information

X. LOGGING OUT OF CORAL

Navigate to the user listing in the left panel of Coral and locate your username (*Figure 26*).
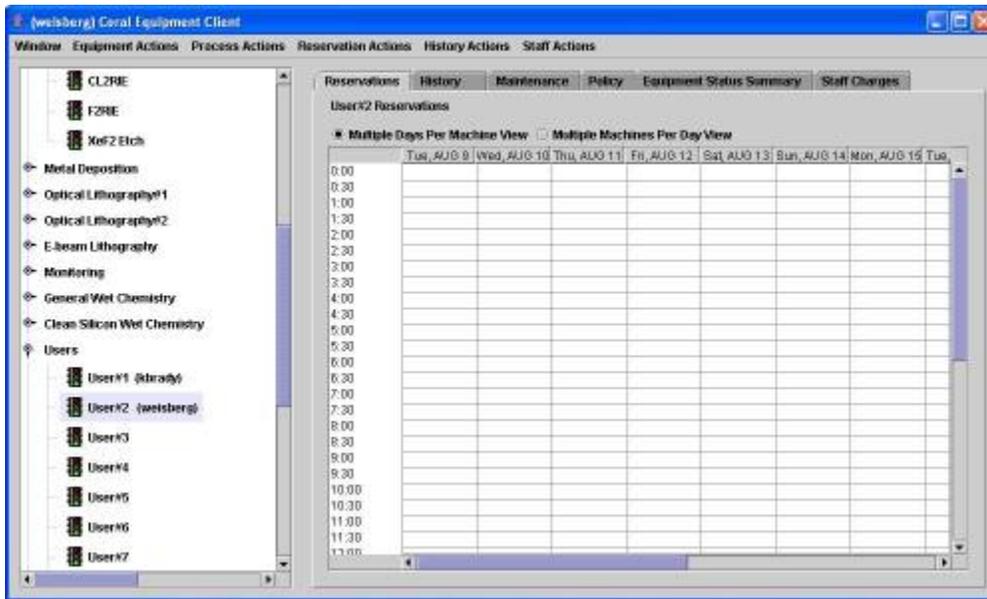

Figure 26: Listing of users currently in the lab

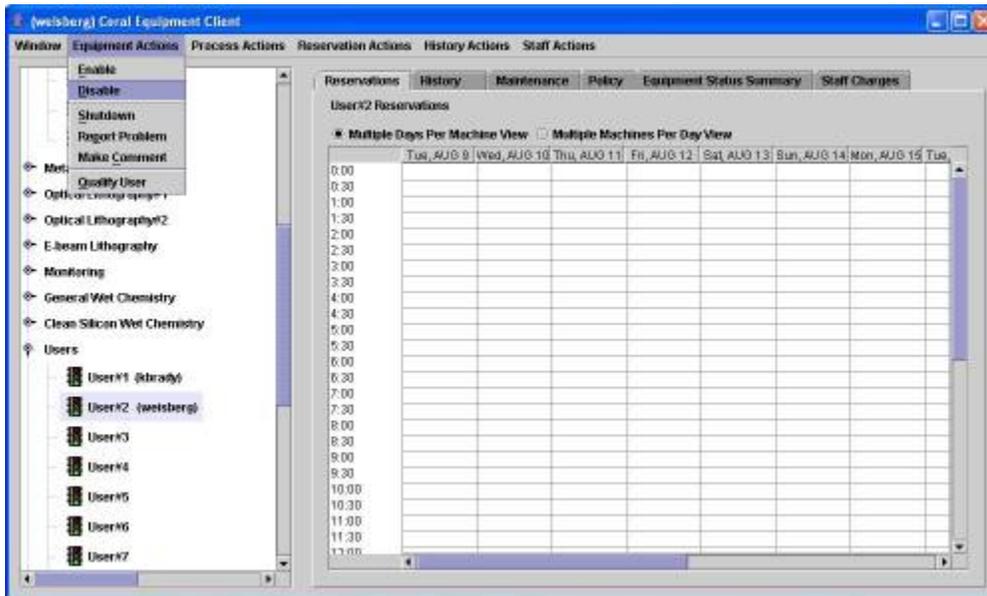Click on **Equipment Actions –> Disable** to log out of Coral(*Figure 27*).

Figure 27: Logging out of Coral

Your username will no longer appear beside the user slot, signifying a successful logout (*Figure 28*).
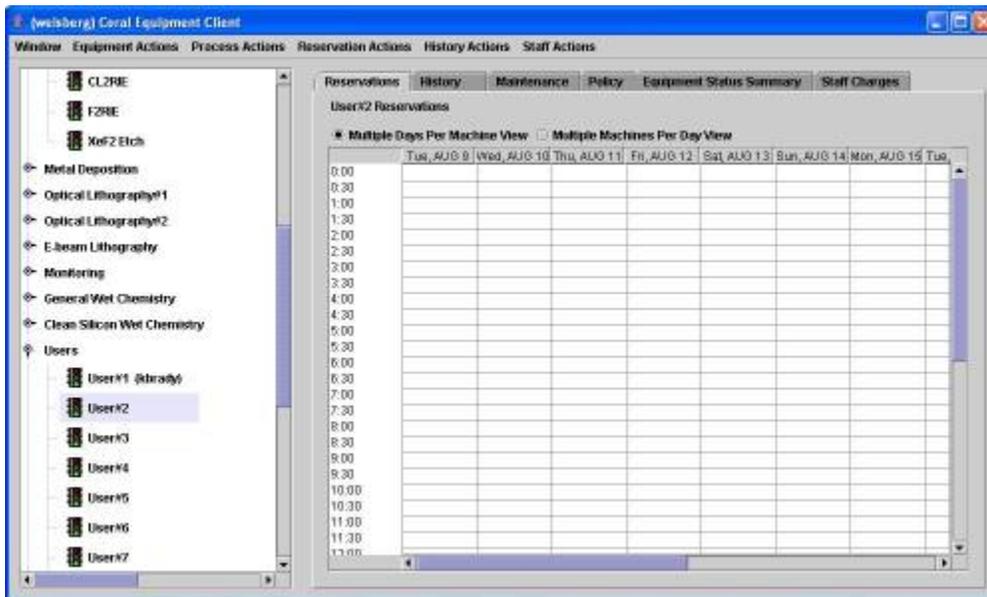

Figure 28: User has logged out
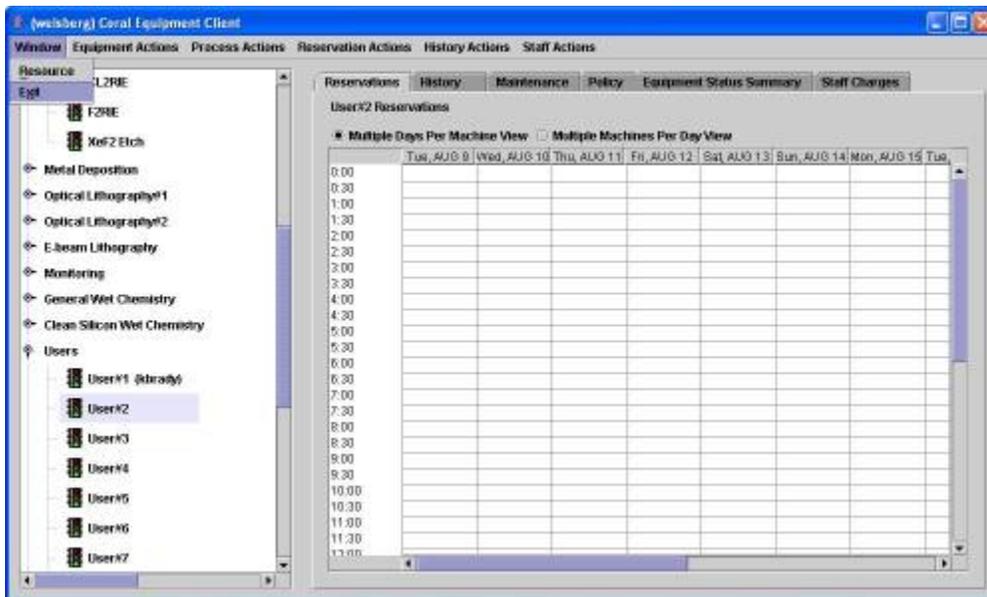
Select **Window –> Exit** to close Coral (*Figure 29*).

Figure 29: Exit Coral