

## **Printing from Apple Macs to LIPA Student Printers over the Internet**

### **PREREQUISITES:**

Make sure you are connected to the internet. If you are connected via the LIPA Wi-Fi, then make sure you open your browser and log on to the LIPA Wi-Fi first before printing.

If you are planning to use one of the following printers, you will need to download the relevant printer driver:

#### **LRC Colour Printer**

**Make and Model: SHARP MX-2700N**

Here is the link to the software you must download:

<http://www.lipa.ac.uk/printing/MAC-Sharp-MX2700n.zip>

#### **CAD Potter (Level 5 – Room 5.01) - (Only Available to TPDT Students)**

**Make and Model: Canon ImageProGraf iPF750**

Here is the link to the software you must download:

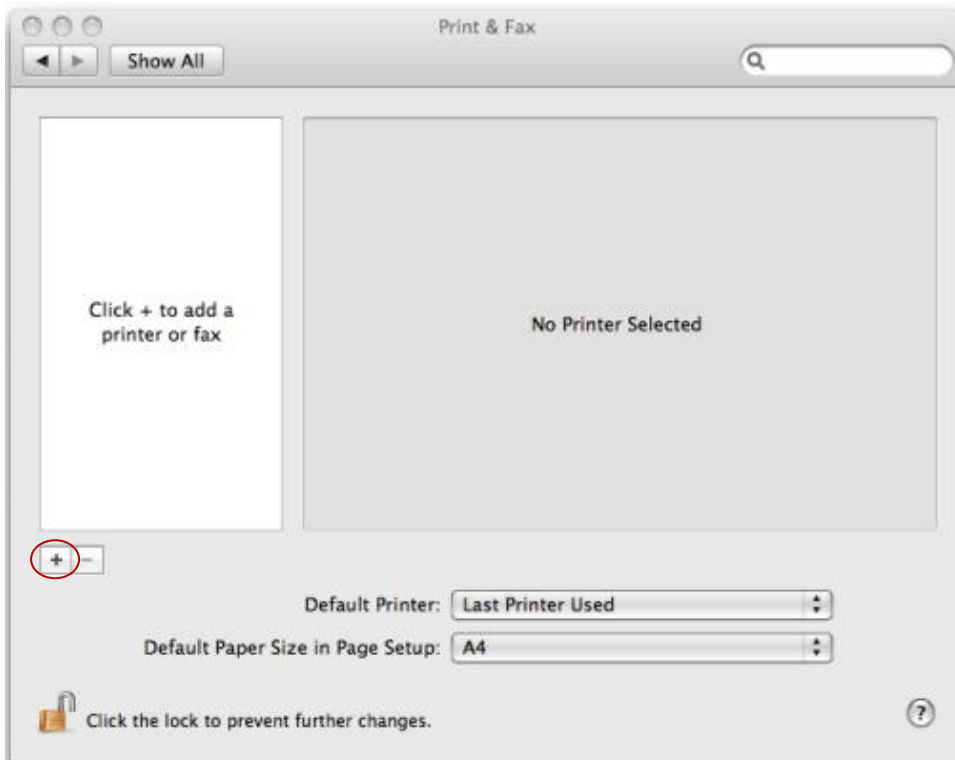
<http://www.lipa.ac.uk/printing/Mac-Canon-IPF750.zip>

## **CONNECTING TO A LIPA PRINTER:**

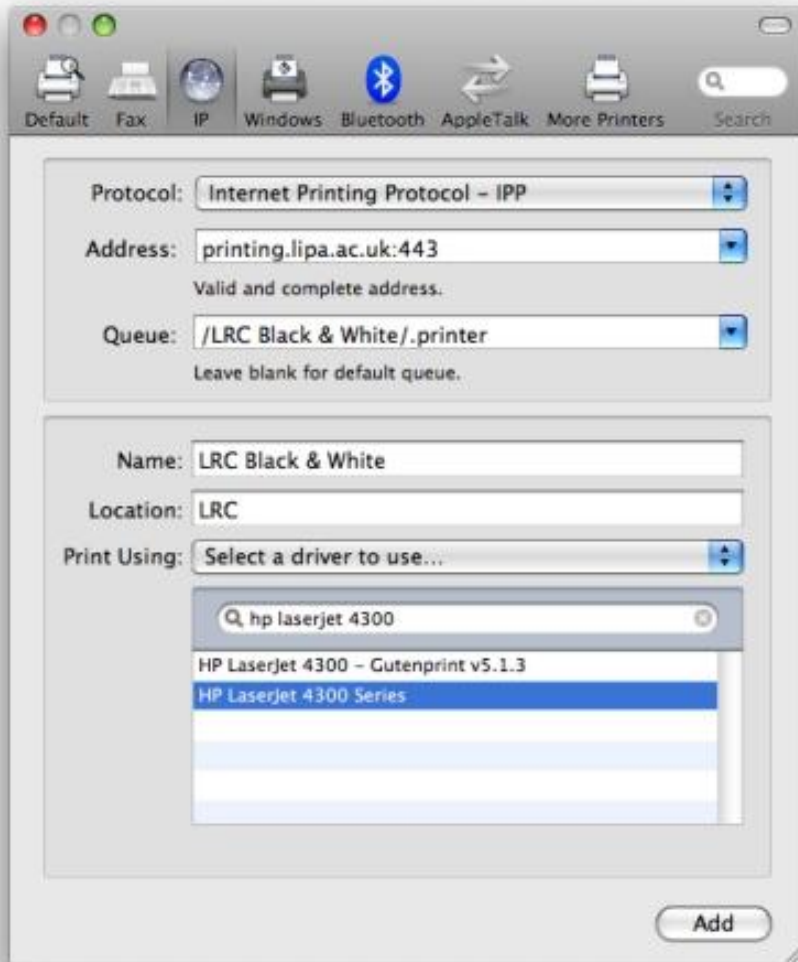
First go into System Preferences as show below



Click on the "Print & Fax" icon



Then click on the + button located under the list of printers



*Example used in the screenshot is the LRC Black & White printer*

On the printer setup screen, enter the information for the printer you would like to connect to:

**LRC BLACK & WHITE PRINTER:**

**Protocol:** IPP (Internet Printing Protocol)

**Address:** printing.lipa.ac.uk:443

**Queue:** /LRC Black & White/.printer

**Name:** LRC Black & White

**Location:** LRC

**Print Using:** HP LaserJet 4300 Series

**LRC COLOUR LASER:**

**Protocol:** IPP (Internet Printing Protocol)

**Address:** printing.lipa.ac.uk:443

**Queue:** /LRC Colour Laser/.printer

**Name:** LRC Colour Laser

**Location:** LRC

**Print Using:** SHARP MX-2700N PPD

**MANAGEMENT SUITE:**

**Protocol:** IPP (Internet Printing Protocol)  
**Address:** printing.lipa.ac.uk:443  
**Queue:** /MTEM Suite - 5.06/.printer

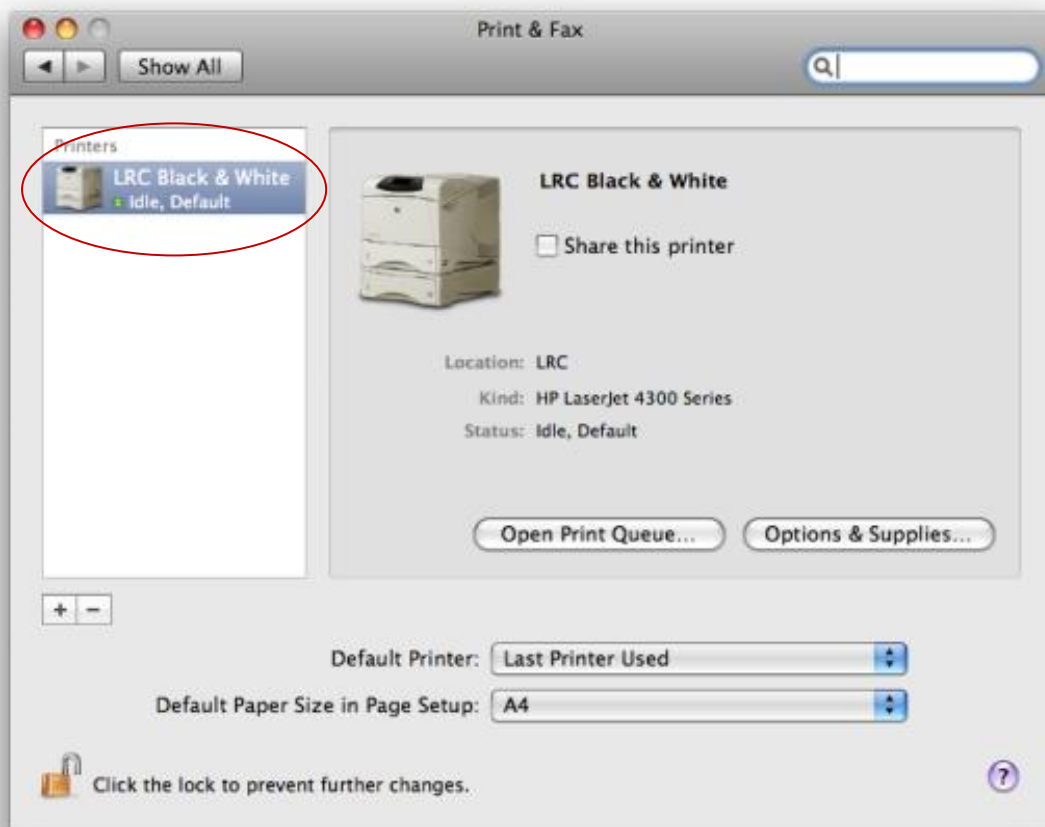
**Name:** MTEM Suite  
**Location:** 5.06  
**Print Using:** Generic PCL Laser Printer, 1.3

**CAD PLOTTER 5.01:**

**Protocol:** IPP (Internet Printing Protocol)  
**Address:** printing.lipa.ac.uk:443  
**Queue:** /CAD Plotter - 5.01/.printer

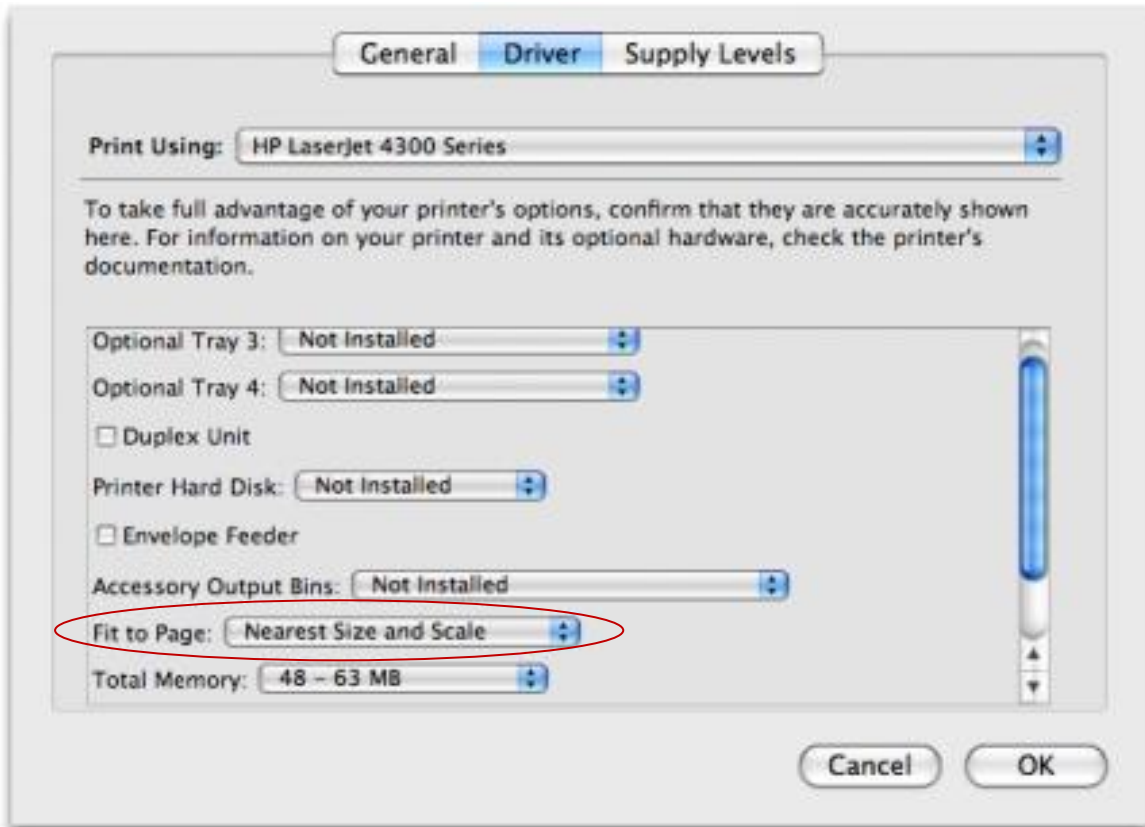
**Name:** CAD Plotter  
**Location:** 5.01  
**Print Using:** Canon iPF750(CUPS)

Click on the “Add” button. At this stage you may be asked what options you want to set the printer up with e.g. Extra paper trays. Leave these setting as the defaults, and Click “Continue”.



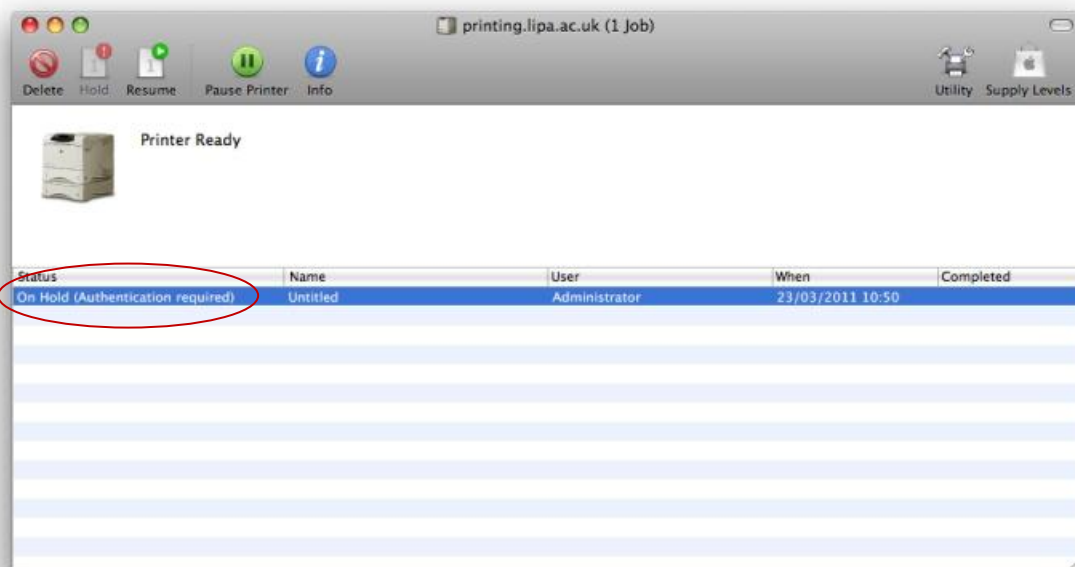
You will then see the printer you have just added in the Print & Fax dialog box.

Click on the Options and Supplies button and in the Driver Tab change “Fit to Page” to “Nearest Size and Scale”. Click **OK**. You only need to do this for the LRC Black & White.



Go into an application (such as Word) and print a document to the printer you have just setup.

Then click on the printer icon in the bottom tray associated with the printer you have just setup:



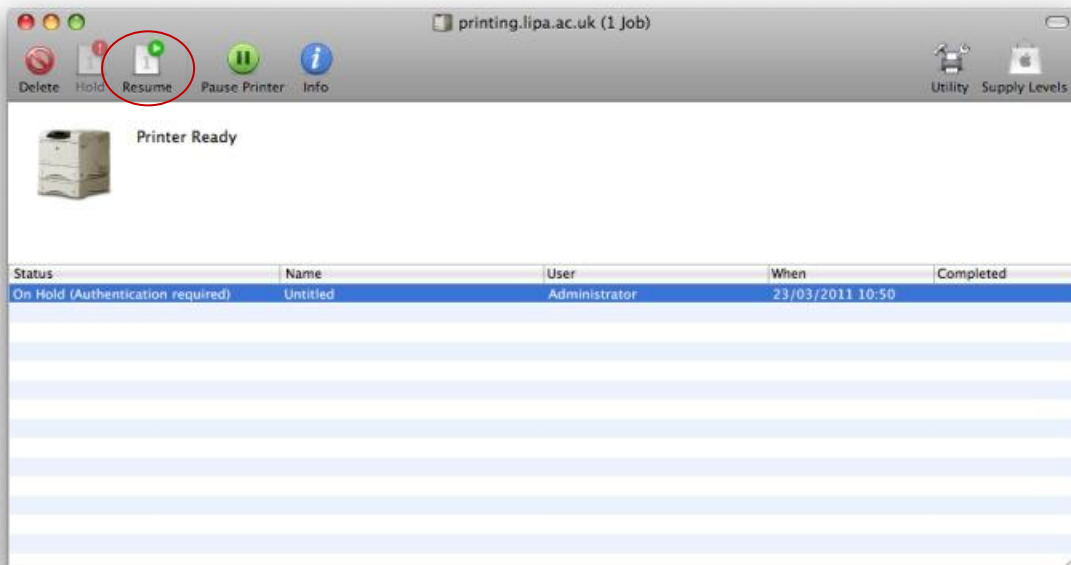
You will notice that it says On Hold (Authentication required) under Status.

NOTE: This is because Apple has not fully implemented Printing Authentication through their GUI (Graphic User Interface) and LIPA is using a Security certificate to encrypt the print jobs.

Click on the resume button and enter your LIPA account details as below remembering to click on "Remember this password in my keychain":



You will now need to click on resume the document again.



The document will print out. Meanwhile the Mac print queue will start telling what it is doing:

Printer does not support IPP /1.1 reverting to IPP /1.0

Waiting for job to complete...

Unable to get job attributes...

Etc.

Finally it will pause the printer still listing the document you have just printed on its print queue.


**Despite it still being listed in the queue, the document has printed!**

NOTE: Unfortunately the Mac IPP printing system and Microsoft IPP within Windows 2008 do not communicate well with each other.

This means every time you print to the printer you need to make sure the printer is not paused (click on Resume Printer). You will also have to manually delete the print job.

LRC B&W (1 Job)

Delete Hold Resume Resume Printer Info Utility Supply Levels

 **Printer Paused**

| Status  | Name       | User          | When             | Completed |
|---------|------------|---------------|------------------|-----------|
| Stopped | test print | Administrator | 25/03/2011 14:54 |           |
|         |            |               |                  |           |
|         |            |               |                  |           |
|         |            |               |                  |           |
|         |            |               |                  |           |
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