

## **Installing Advancing Physics AS 2000 for Standalone Users**

### ***Installing Advancing Physics AS 2000***

You need to install a minimum of the following:

1. Folio Views – used to access the *Advancing Physics AS* infobase
2. Modellus – a modelling application
3. Scion Image – an image processing application

These are the applications you will need in chapters 1 and 2. These applications will be enough for you to get started using the CD-ROM and find out how it works.

Here is what to do:

**Step 1:** Put the CD-ROM into your computer's CD-ROM drive.

**Step 2:** Using Windows Explorer, locate the file **InstMgr.exe** in the root directory of the CD-ROM and run it. This is the *Advancing Physics* Install Manager. It will give you more information about each application and enable you to install them. Hovering your mouse over the buttons in Install Manager provides more information in the lefthand pane.

**Step 3:** When Install Manager appears, choose the first option "Install Advancing Physics".

**Step 4:** Install Folio Views and the *Advancing Physics AS* infobase.

Choose the install option "Folio Views and Infobase". Follow the onscreen instructions. Choose one of the standalone options (usually "Standalone Standard"). We recommend choosing the defaults. When the installation is complete, return to the Install Manager.

**Step 5:** Install Modellus

Choose the install option "Modellus 2.0". Follow the onscreen instructions. When the installation is complete, return to the Install Manager.

**Step 6:** Choose the install option "Scion Image". Follow the onscreen instructions.

**Step 7:** Exit the Install Manager.

You should now have everything you need to get started. Remember that, in the infobase, some program icon links to applications you have not yet installed won't work. You can install them later by using Install Manager again.

During the "Folio Views and Infobase" installation you will have been asked for a Programs folder name for *Advancing Physics*, the default being "Advancing Physics". Click the Windows Start button and select this folder on the Programs menu. Choose "Advancing Physics AS 2000 Student's/Teacher's Version" to launch Folio Views and the *Advancing Physics AS 2000* infobase.

### ***Uninstalling Advancing Physics AS 2000***

Uninstall information is created by the Folio Views installation.

- If you want to uninstall Folio Views and *Advancing Physics*, choose Add/Remove Programs in the Windows Control Panel or use the uninstall shortcut created in the Start menu\Programs folder during the installation.

Uninstall information is created by the installers of all the other applications shipped on this CD-ROM.

- If you want to uninstall any of these installations, choose Add/Remove Programs in the Windows Control Panel. Where they have been created during installation (for example Modellus), you can also use the uninstall shortcuts on the Start menu\Programs folder.

### ***Special notes on the Additional Applications***

This section highlights any special points about the installation of the AS CD-ROM's additional applications and provides other information relevant to their use.

#### **Modellus**

- If you are short on hard disk space, and if you do not need the sample files that come with Modellus, you can delete them to save you 11.4MB. DO NOT DELETE the \AdvPhyAS folder, which contain bitmaps and avi files associated with certain models that are embedded in the infobase.

#### **Scion Image**

- Requires DirectX. DirectX is commonly loaded on most versions of Windows. Having installed Scion Image, if you can run it without error messages, then DirectX is already installed. If you need to install DirectX, DirectX v6.0 is provided in Install Manager – choose Install Advancing Physics>Support Applications>DirectX 6.0.

#### **Cool Edit 96**

- Cool Edit 96 is a digital sound editor shipped as shareware (in a demo version). Please note that you are responsible for the registration and purchase of this unique application after a short evaluation period.
- Cool Edit 96 has now been superseded by Cool Edit 2000. Cool Edit 2000 is completely compatible with the *Advancing Physics* CD-ROMs. In order to purchase the software, you need first to download the Cool Edit 2000 demo from the Syntrillium web site and install it. Then you are in a position to pay for and register it in order to enable the full product. See <http://www.syntrillium.com> for purchase details.
- We do not recommend the Cool Edit 2000 Lite product that is also offered when you come to register the software. Most of the options on the Transform menu are missing in Cool Edit 2000 Lite and they are needed to process sounds.

Here is some more advice on how to implement Cool Edit for *Advancing Physics*:

1. Think of Cool Edit as a piece of apparatus (that could also be effectively used for KS3 and 4). You may have another piece of apparatus that will give you the same ability to capture, display and process sounds. If so, then use it. It may be software-based, or not. Multimedia sound, oscilloscopes, Audioscope, Amadeus, Soundmaster, Pasco interfaces, BBC micros all enable you to do some of the processes possible with Cool Edit. However, at the time of writing, Cool Edit is a unique product at its price tag.
2. For school use you should register Cool Edit 2000. Students working independently of the school site have the option of trying out Cool Edit 96 from the AS CD-ROM and then registering it if they want to keep it.
3. We do not recommend using Cool Edit on a network suite of PCs, due to the potential noise levels. We recommend installing it on one machine in the lab, to demonstrate how to use it, to capture sounds and to analyse them. However, students that do not have a machine at home need access to it at school in their private study time. Therefore, depending on your situation, you may need to register a second copy for an open access machine (we recommend fitting this with headphones). So the total cost to the department of deploying the potential of this software is one or two registrations.

Where to find out more:

- In the infobase, How to>Use this CD-ROM>Cool Edit>Getting started with Cool Edit gives an overview of the software.
- You can search the infobase using an Exploratory Search (chapter 3; “software-based” in the Activities box; “PC running sound processing software” in the Free Text box) to find the eight activities for which Cool Edit is recommended.

### **Chime**

- Chime is a Netscape plugin needed to run the interactive model of ferritin in chapter 5. The plugin is not compatible with Microsoft Internet Explorer.

### **Insight**

- A 15 minute time-limited demo version of Insight 2 is shipped on this CD-ROM. The software will run for periods of 15 minutes before a message box appears ("Demonstration version: only 15 minutes allowed"). Clicking OK ends your Insight session, but you can simply restart the program for another 15 minute period.
- Insight 2 is 16-bit software, so you are likely to see truncation of long pathnames when using any dialog boxes that list directory structures.
- You can purchase a full copy of the new Insight 3 software on Mac/Win CD-ROM with a 20% discount off the full price from the publishers. Contact [info@pearsoned-ema.com](mailto:info@pearsoned-ema.com) for details. Insight 3 is 32-bit software.

### **Ripple Tank and Wave Superposition VB Animations**

- Both of these applications use Active X controls and Visual Basic 6. The install programs will detect and update older versions of these libraries on your system. This should have no negative effect on the operation of your computer.
- Under certain circumstances you may get a message box warning of a version conflict during installation. This problem normally occurs when a support library program being copied is older than the one already installed on the machine. In this event we strongly recommend you choose to keep the existing version as other applications on your machine may well be using the library file.
- We recommend taking care if you ever want to uninstall these programs (choose Add/Remove Programs in the Windows Control Panel). The uninstall will offer you the chance to remove the shared library files. We recommend accepting the default, to keep the shared library files, since other programs may need them.

### **PhysVis**

- PhysVis is provided as a useful tool but is not directly supported by *Advancing Physics*.
- PhysVis can be run directly from the CD-ROM and needs no installation to hard drive. You can run PhysVis from within Install Manager by going to Install Advancing Physics>Additional Applications and choosing the PhysVis button, or by running the file physvis.exe in the \Additional Apps\PhysVis\ folder on the CD-ROM.

### **WinScope**

- WinScope is a PC oscilloscope provided as a useful tool, but not directly supported by *Advancing Physics*.
- WinScope can be run directly from the CD-ROM and needs no installation to hard drive. You can run WinScope from within Install Manager by going to Install Advancing Physics>Additional Applications and choosing the WinScope button, or by running the file WINSCOPE.EXE in the \Additional Apps\WinScope\ folder on the CD-ROM.

### **WorldMaker**

- WorldMaker is available from the Web base on the *Advancing Physics* Web site (<http://advancingphysics.iop.org>) and on the *Advancing Physics A2 2001* CD-ROMs.

- WorldMaker is a 16 bit application that in network situations is recommended for installation on individual workstations.
- The *Advancing Physics* WorldMaker models are in fact small database files that are held in the \Worlds\ folder inside the WorldMaker installation folder. For the models to work, users must have write access to them, so ensure that the Security Permissions of the files are set to give your users “Full Control”.
- If you need to create a desktop shortcut for WorldMaker, ensure that you enter the WorldMaker installation directory as the Start in/Startup path. Also ensure that no trailing slash is included at the end of the path. Therefore a typical correct Start in path would be: “c:\Program Files\WorldMaker”.
- While it is possible to install WorldMaker to a network hard drive so that all users run the software from there, it is not recommended because all users then share the model files in the \Worlds\ folder. This raises concerns for several reasons. Firstly, the efficacy of database file-locking has not been tested by us with large numbers of users sharing a model file at one time. Secondly, the shared (and writable) model files can then be spoiled for all users by one individual user changing and saving the file. This is why installation on individual workstations is recommended.

### **Getting help**

Your CD-ROM case booklet provides full details of where you can get help.

More technical information on installation is provided in the FAQ in this CD-ROM’s Install Manager. You can also find an up-to-date FAQ on the *Advancing Physics* Web site (<http://dev.advancingphysics.iop.org/products/support.html>).

## **Special notes on the Support Applications**

A number of supplementary Windows applications are shipped on the *Advancing Physics AS 2000* CD-ROM. You may find these support applications useful to read the material provided on this CD-ROM, if you do not already have comparable tools. This section provides links to web site FAQ information relevant to their use.

### **Adobe Acrobat**

The Adobe Acrobat Reader enables you to view and print PDF documents. Information regarding configuring the Reader and updates are available from the Adobe web site at: <http://www.adobe.com/products/acrobat/>

### **Microsoft Word Viewer**

The Microsoft Word Viewer enables you to view and print Microsoft Word Documents. Information regarding configuring the viewer and updates for new Word formats can be found on the Microsoft web site at:

<http://support.microsoft.com/support/default.asp?PR=wrld&FR=0&SD=GN&LN=EN-US>

### **Microsoft Excel Viewer**

The Microsoft Excel Viewer enables you to view and print Microsoft Excel Spreadsheets. Information regarding configuring the viewer and updates for new Excel formats can be found on the Microsoft web site at:

<http://support.microsoft.com/support/default.asp?PR=xlw&FR=0&SD=GN&LN=EN-US>

### **Java Runtime Environment**

You need Java Runtime Environment (JRE) to run the three Java Applets provided in chapters 4 and 5. Please note that of these the "TheBike" applet suite provided in chapter 4 requires an additional setup before you can access its "Materials Database".

Setup instructions can be found on this CD-ROM in the directories:

\Components\Java\TheBike\Setup\Win9598\ (for Windows 95 and Windows 98) and  
\Components\Java\TheBike\Setup\WinNT2000\ (for Windows NT and Windows 2000)  
as ReadMe.txt.

Configuration information and updates for Java Runtime Environment can be found on the SUN Java web site at:

<http://java.sun.com/products/jdk/1.2/jre/>

### **Microsoft Internet Explorer 5**

The latest version of Internet Explorer and information on configuring the software can be found on the Microsoft web site at:

<http://support.microsoft.com/support/default.asp?PR=ie&FR=0&SD=GN&LN=EN-US>

### **DirectX 6.0**

DirectX is used by Scion Image to provide various drawing and printing facilities. Since Windows 95 and above commonly have DirectX 4.0 or above. If you find the version installed on your PC is older than version 6.0 it is worth considering loading version 6.0 which is shipped on this CD-ROM. The latest version of DirectX, along with compatibility information can be found at the Microsoft web site:

<http://support.microsoft.com/support/default.asp?PR=drx&FR=0&SD=GN&LN=EN-US>

**Video for Windows 1.1**

Video for Windows is a multimedia extension, which replaces the default Microsoft Media Player with a new version, which supports additional file formats such as the Microsoft AVI format. In most cases this software is included as standard on machines running Windows 98, NT or 2000. For users running Windows 95 the *Advancing Physics* CD-ROM contains the last released version of VFW version 1.1e. Information on multimedia formats and Microsoft Media Player can be found on the Microsoft web site at:

<http://www.microsoft.com/windows/windowsmedia/EN/default.asp>