Installing Cantera 1.5.4 for Windows
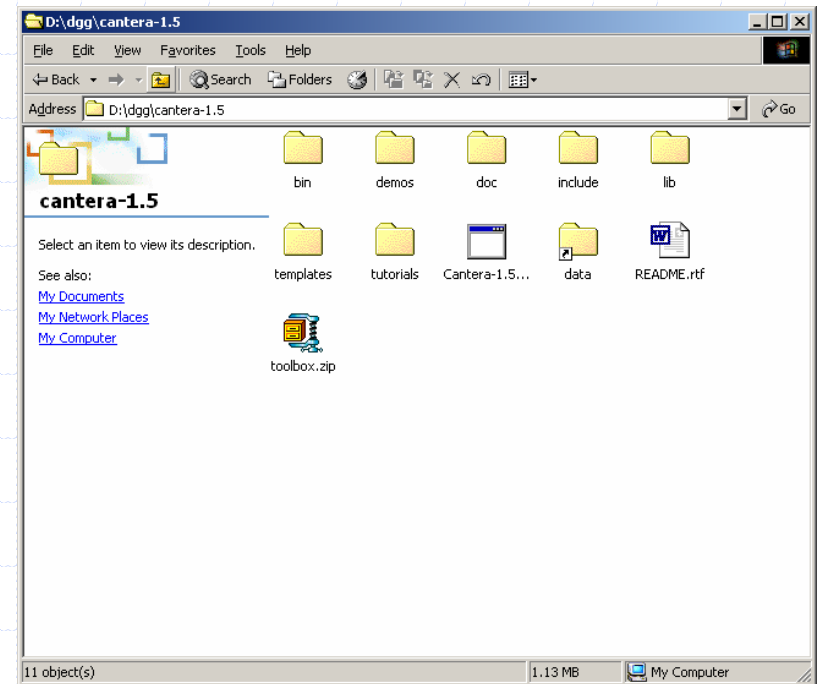
D. G. Goodwin
Caltech
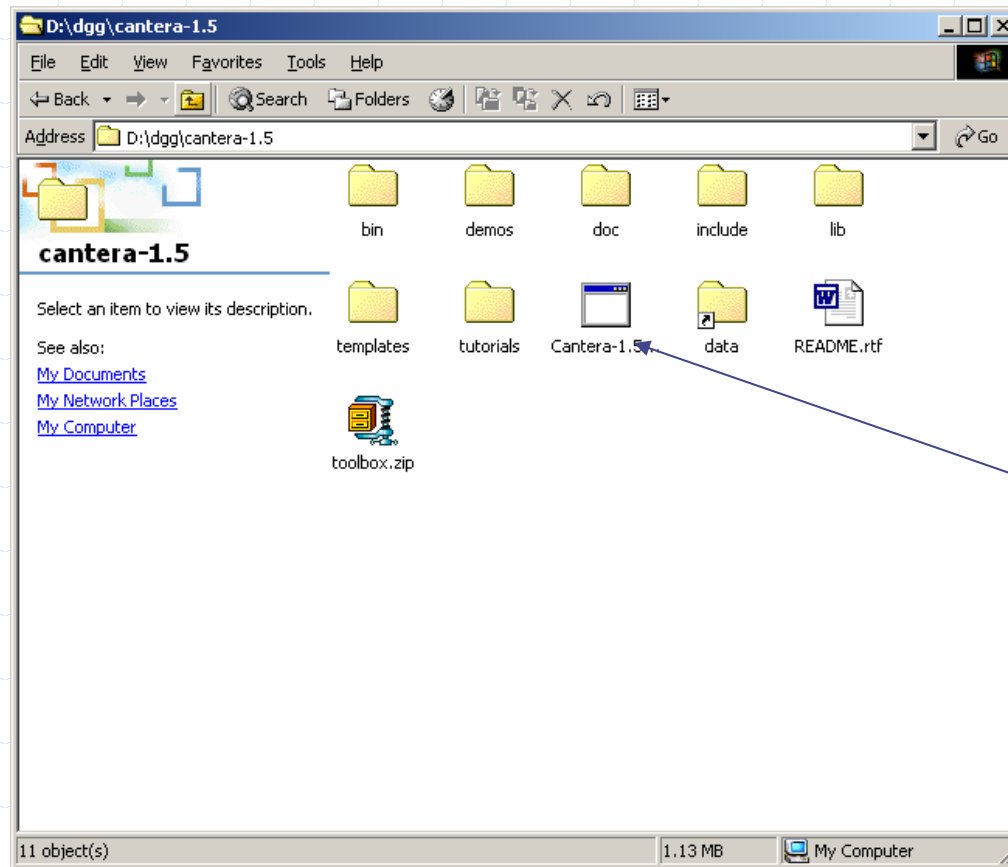June, 2004

System Requirements

- ◆ A PC running MS Windows 2000, or Windows XP
  - Older versions of Windows *may* work, or may not

- ◆ Python 2.3.4
  - Download the Windows installer from http://www.python.org and run it
  - Cantera uses Python to process input files, so it is required even if you will use Cantera from Matlab or another environment

- ◆ Numeric Python (NumPy)
  - Only needed if you plan to use Cantera from Python
  - Adds fast array operations to Python
  - Download the Windows installer from http://sourceforge.net/projects/numpy and run it

- ◆ Optional
  - Matlab 6.5
  - MS Visual C++ 6.0
  - Compaq Visual Fortran

Installation

◈ Download the Cantera installer

■ get cantera154.msi from http://sourceforge.net/projects/cantera and run it.

◈ This will create a folder that looks like the one shown here
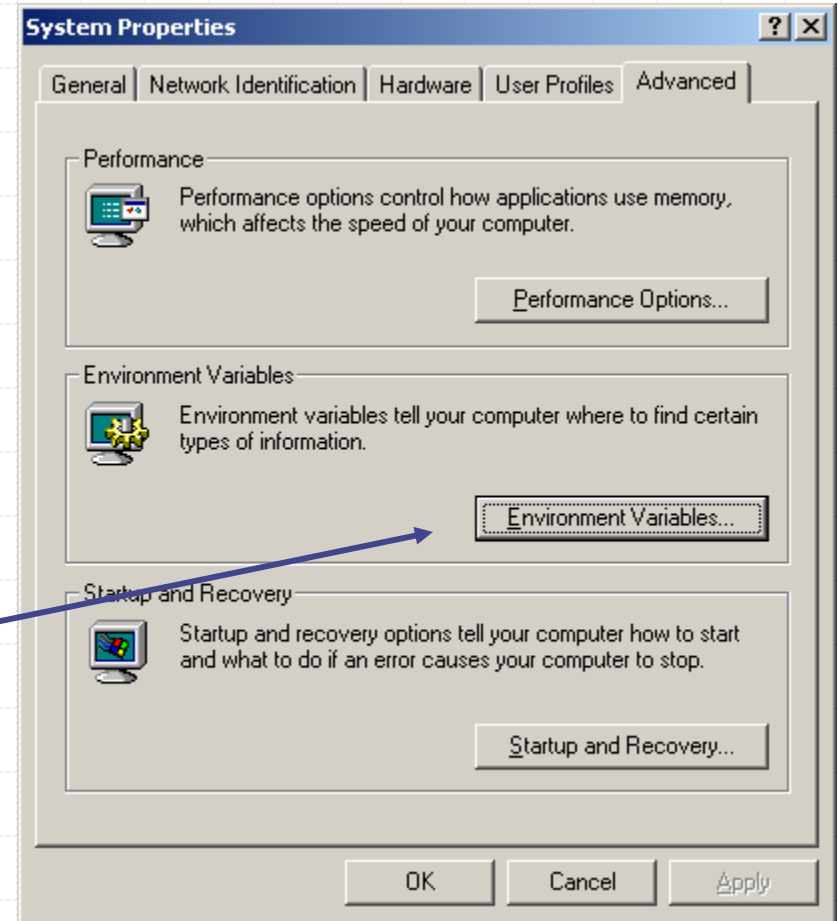
Installing the Cantera Python package

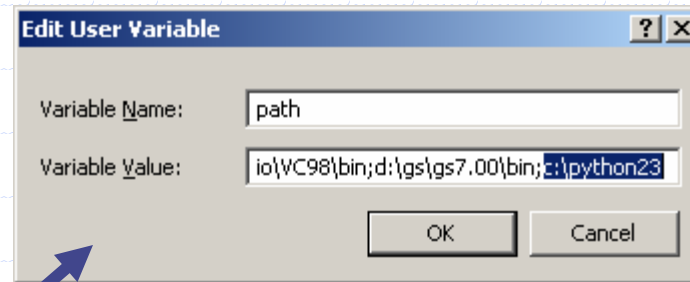run this installer program

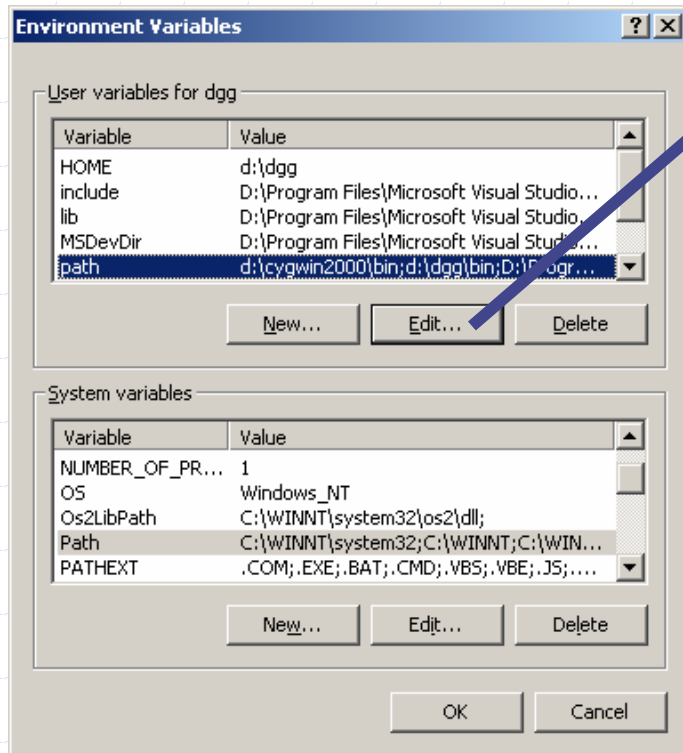# Add the Python Interpreter to the Path

Cantera needs to know where to find the Python interpreter, since it uses Python to process '.cti' input files

To edit the system search path, select "System" on the Control Panel to pull up this dialogue box

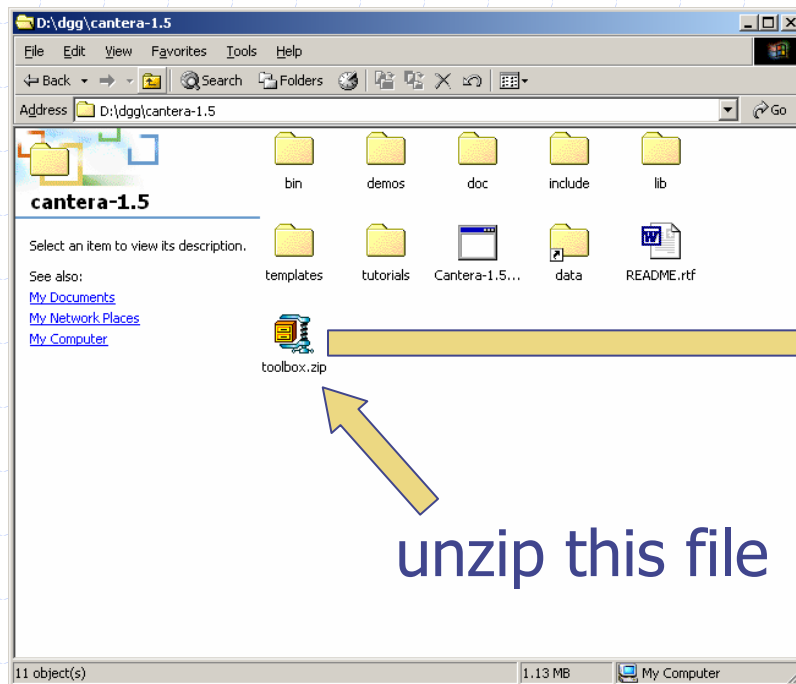Press the 'Environment Variables' button
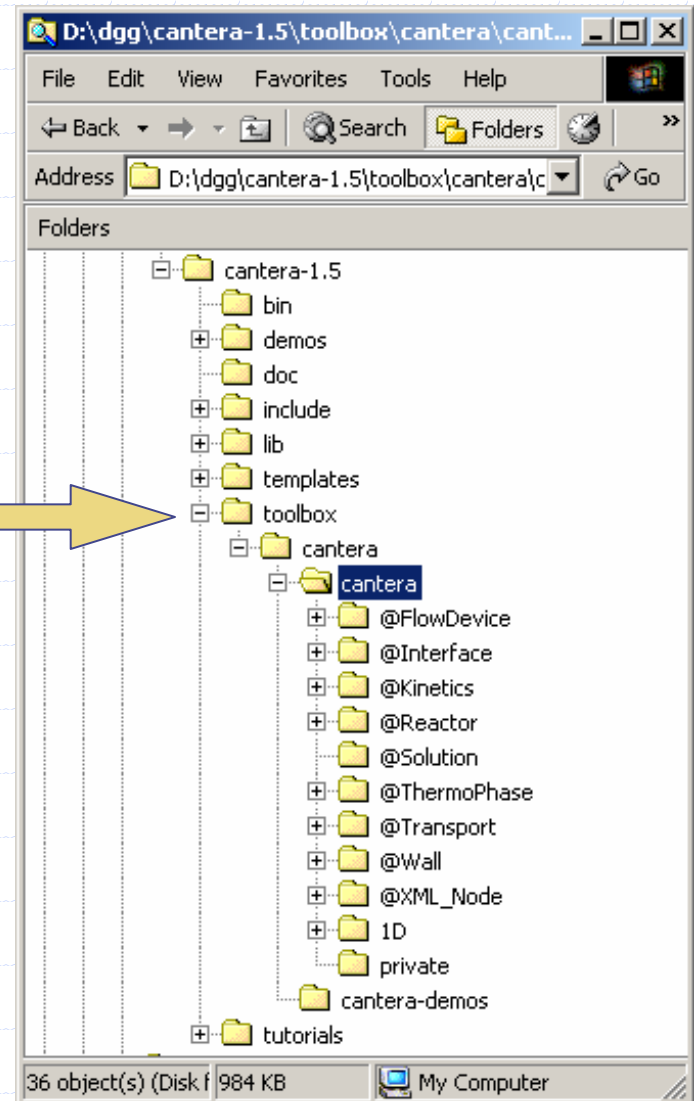
Edit the PATH environment variable

◆ Add C:\PYTHON23 (or wherever you installed Python 2.3.4) to the PATH environment variable (user or system)

◆ Use a semicolon between paths
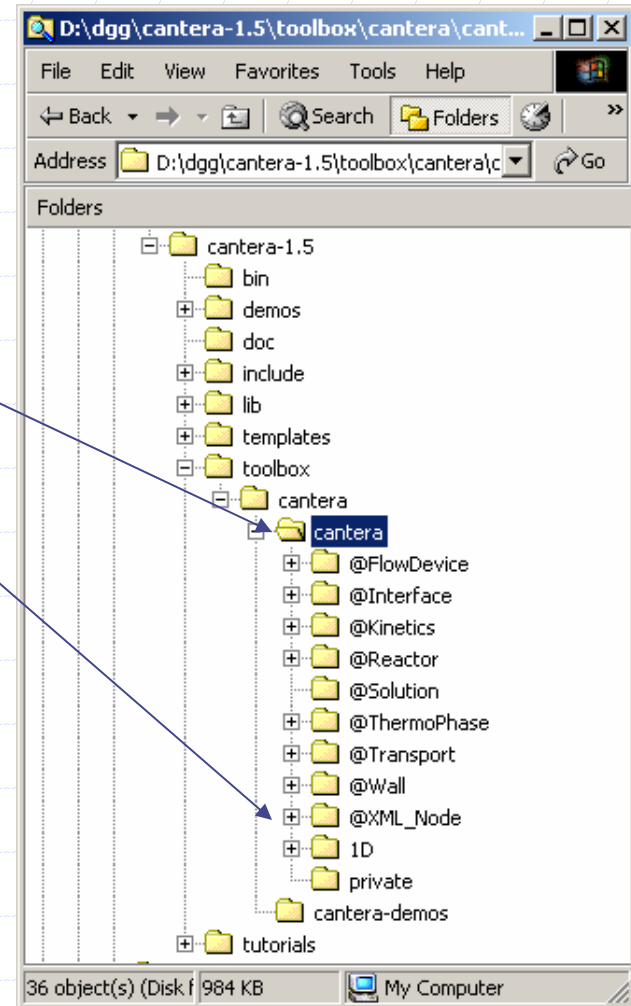
Installing the Matlab Toolbox

unzip this file

note: the file is now 'matlab.zip'
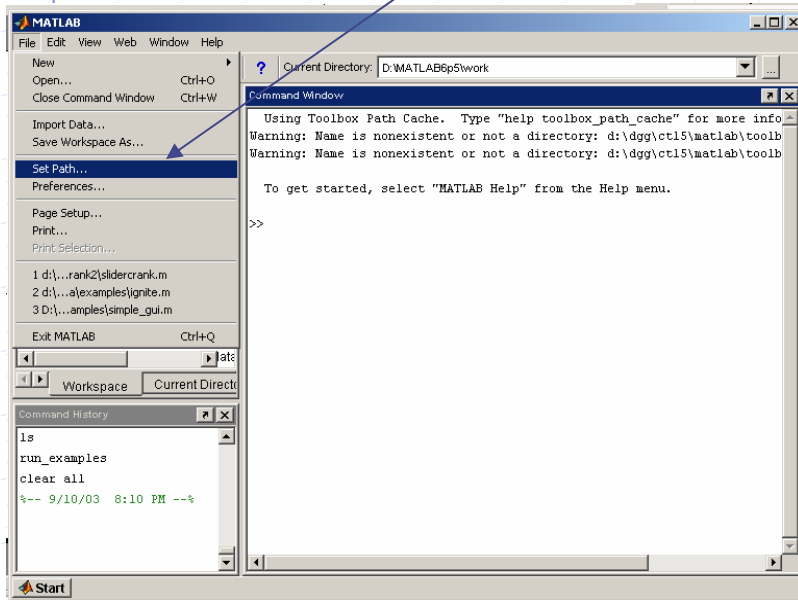
Put the Cantera Toolbox on the Matlab path

◆ Add these **two** folders to the Matlab path

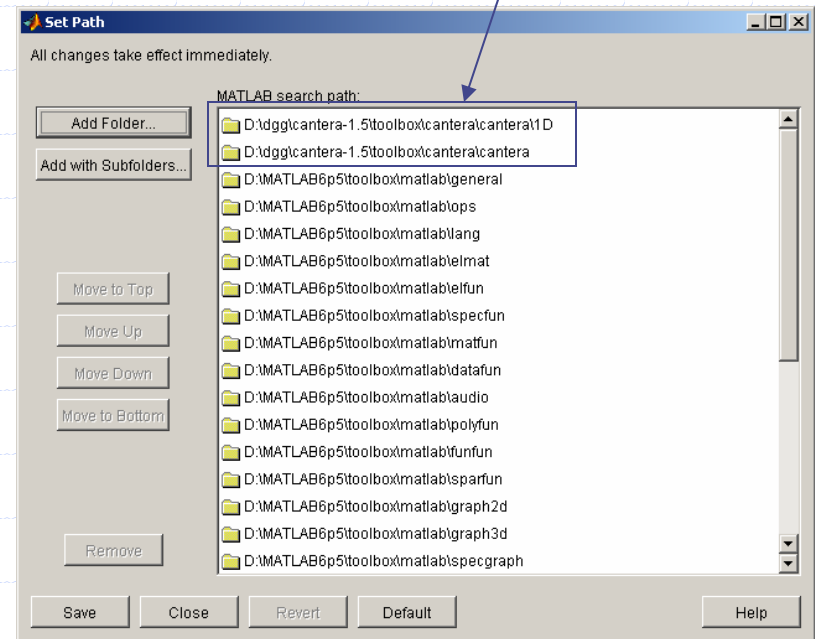Folder '1D' adds support for one-dimensional reacting flows

Setting the Path in Matlab

choose 'Set Path...' on the File menu

the Cantera Toolbox

If desired, the Cantera toolbox can be moved to the folder containing other toolboxes (or anywhere else)

Next…

◆ If you have done everything described here, you should have a functioning Cantera 1.5.4 installation! (Congratulations.)

◆ Running the Python and Matlab demonstration scripts is a good way to test your installation