Course Announcement

Python Programming for Scientists and Engineers

- An intensive course organized by C3SE and given by Dr. Ben Freasier, Canberra, Australia, at Chalmers Campus

Time period: October 11 – 22, 2010

Brief course description:
Python is an increasingly popular scripting language which combines the rapid development of code characteristic of scripting with the speed of efficient scientific and engineering libraries which can be linked as modules to Python scripting code. This course will

1. introduce the main language features of Python
2. show how to create Python interfaces to user C or Fortran libraries
3. show how to use some existing technical libraries with examples such as
   * fast array operations
   * Graphical User Interfaces (GUI)
   * WWW interaction

The ultimate aim of the course will be to teach students how to use Python to improve their research programming, both in speed and quality of development. To this end the assessment for the course will be in the form of a project relevant to the students research chosen by mutual agreement between student, instructor and responsible research supervisor if applicable. The instructor will be available by Email for consultation on the student’s project.

The course will consist of 10 two-hour sessions of contact as follows: date and time slot
October 11 15-17, October 12 13-15, October 13 10-12, October 14 15-17, October 15 15-17, October 18 to October 22 15-17.

Please let me know if you would like to attend the course or need more information. The course can accommodate a limited number of students. In case of excess number of applicants for the course the need to attend will be considered.

The course is given here at Chalmers by C3SE, Chalmers Center for Computational Science and Engineering, and I will attempt to be the host and organizer. Dr. Ben Freasier is an expert programmer and has given a Python programming course here some years ago to good effect.

Sture Nordholm
ksjn@chem.gu.se Tel. 772 2831