



SC Education Summer Workshop

APPLICATIONS OF HPC, GRIDS, AND PARALLEL COMPUTING TO SCIENCE EDUCATION

JUNE 15 - JUNE 21, 2008 • NAVAJO TECHNICAL COLLEGE, CROWNPOINT, NM

What are the SC Education summer workshops?

The SC Education program provides week-long workshops in High Performance Computing (HPC) education and HPC curriculum development for faculty, administrators, and students.

Applications of HPC, Grids, and Parallel Computing to Science Education Workshop Summary

This workshop will begin with an emphasis on parallel and cluster computing in an educational setting as well as teaching issues in Grids and Parallel Environments. Examples suitable for classroom use will be presented, including both simple codes that can be made available for student modification and more complex examples that use state of the art open source community codes.

In addition, participants will have the opportunity to be introduced to computational biology and computational chemistry tools and resources. Participants will be also be introduced to dynamic modeling, bioinformatics, simulation, molecular modeling, mathematical software and visualization viz-a-viz distributed environments and tools.

Dates

June 15 – June 21

Location

Navajo Technical College in Crownpoint, NM

Who is the intended audience?

The SC Education Program summer workshops are open to undergraduate and graduate educators in all fields of science, technology, engineering, mathematics, humanities, arts and social sciences, especially those from minority-serving institutions. The summer workshops are also open to high school teachers collaborating with college faculty. Faculty are encouraged to mentor and support undergraduate and graduate students by including them as part of a workshop team.

What is the cost involved with attending?

Participants are asked to pay a registration fee of \$150 and will be required to cover their own travel expenses. Room, board, most meals, and other costs associated with the workshop are covered by the SC Education Program.

How do I register?

Visit <http://sc-education.org/workshops/> to register.

What is the SC08 Education program?

The SC08 Education program uses hands-on based workshops to help attendees incorporate computational science and computational modeling into primarily the undergraduate curriculum. Topics may also include high performance computing and communications technologies in support of science and modeling. The intent of the curricular change is to prepare future scientists, technologists, engineers, and teachers. The program culminates in a week-long offering at the SC (Supercomputing) Conference in November.

Register Now: <http://sc-education.org/workshops/>

SC Education Summer Workshops

Register at <http://sc-education.org/workshops/>

→ Applications of HPC, Grids, and Parallel Computing to Science Education

Dates

June 15 – June 21
July 6 – July 12
July 20 – July 26
Aug 10 – Aug 16

Locations

Navajo Technical College in Crownpoint, NM
Grand Valley State University in Allendale, MI
NCSA Access DC in Arlington, VA
University of Oklahoma in Norman, OK

→ Computational Biology for Biology Educators

Dates

June 2 – June 6
July 13 – July 19

Locations

University of Illinois in Urbana-Champaign, IL - registration fee waived
Houston Community College System in Houston, TX

→ Computational Chemistry for Chemistry Educators

Date

June 1 – June 7

Location

University of Puerto Rico in Rio Piedras, Puerto Rico

→ Computational Physics and Parallel Environments

Date

June 1 – June 7

Location

Kean University in Union, NJ

→ High Performance Computing in the Humanities, Arts and Social Sciences

Date

July 27 – Aug 2

Location

University of Illinois in Urbana-Champaign, IL

→ Introduction to Modeling, Simulation, and Computational Methods

Date

July 28 – July 30

Location

Indiana University Northwest in Gary, IN – registration fee of \$75

→ Integrating Computational Science into the Undergraduate Curriculum

Date

June 8 – June 14

Location

Louisiana State University in Baton Rouge, LA

→ High Performance Computing in Nano and Bio Sciences Research and Education

Dates

June 22 – June 28
June 29 – July 5

Locations

University of Texas in El Paso, TX
CeNAT in San Jose, Costa Rica

This list is subject to change as more workshops are added. See the website at <http://sc-education.org/workshops/> for up-to-date information.