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Posted by [raj](#) on Mon, 06 Feb 1995 16:54:34 GMT

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## COMPUTATIONAL SCIENCE IN THE UNDERGRADUATE CURRICULUM

\* A CONVERSATION ON COMPUTING IN THE DISCIPLINES\*

March 4 &5, 1995 at SUNY Geneseo

Sponsored by : State University of New York Faculty Access to Computing Technology Committee  
and SUNY Geneseo

Computational Science can be described as that branch of science which uses computational tools and scientific visualization as the principal method of investigation. While these methods have long been embraced by the research community, it is only recently that computational science education programs have begun to emerge. This COCID will discuss the current place of computational science within undergraduate curricula and help charter future directions.

Do you currently use computational tools in your courses to treat topics that are difficult to approach through standard analytical methods? Do you wish to integrate numerical methods into physics, chemistry and biology courses? Innovative curricula currently in place at various institutions will be presented as well as the work of scientists who make extensive use of computation in their research.

### Themes

#### Computational Science Education:

- \* Major/minor programs
- \* Intra-disciplinary courses
- \* Multi-disciplinary courses
- \* Desktop vs. High Performance Computing
- \* New tools - machines/software/algorithms
  - \* Faculty/teacher training

#### Computational Science Research:

- \* Academic research programs
- \* Individual faculty/student projects
  - \* Industrial applications

## Workshops

Hands-on workshops are being planned. If you wish to propose a workshop that will use 486PCs or Macintoshes, please contact us ASAP. Scheduled workshops so far:

- \* MathCad in Calculus at SUNY Geneseo
- \* High Performance Scientific Computing (HPSC) at UC Boulder

## Panel discussion:

"Does the current state of computational science curricula meet the needs of (1) employers (2) graduate schools in the 90's? What is the future of this field, in SUNY and elsewhere?"

## Submissions:

Please submit a short abstract of 50-100 words of a paper you wish to present or a workshop you wish to lead ASAP to the e-mail address below. We hope to finalize the program by third week of February. Some funding is available to cover expenses

## Tentative Agenda

### Saturday, March 4

9:30 Registration and Continental Breakfast  
10:00 Welcoming comments  
10:30 Morning Session Papers  
12:00 Lunch  
1:00 Afternoon Session Papers  
2:30 Break  
3:00 Workshops  
5:00 Dinner on your own  
Sunday, March 5

9:00 Continental Breakfast  
9:30 Morning Session Papers  
11:00 Panel Discussion  
12:00 Closing remarks

## Directions

## By Car

From NYS Thruway (I-90) take I-390 South Exit.  
Proceed to Exit 8 on I-390 and take a right on Route 20  
(there will be a sign for Geneseo). Take a right onto  
Main Street at the third light (a T-intersection with a  
Mobil station on the right hand side). Proceed past the  
fountain and take a left on University. Park on the  
street or in the large paved lot that comes off  
University.

By Air

Fly into Rochester International Airport. Take a right  
out of the airport exit and follow signs for I-390 South.  
Proceed as above.

Hotel information available on request.

Registration:

There is a \$10 registration fee. To register, complete the form below and return via Fax or E-mail  
to:

S. Raj Chaudhury, Dept. of Physics & Astronomy, SUNY Geneseo, Geneseo, NY 14454  
Phone: 716-245-5287\* Fax: 716-245-5288 \* E-mail: [raj@uno.cc.geneseo.edu](mailto:raj@uno.cc.geneseo.edu)

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