

Gemini:
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Computer

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could strongly influence the future of computing.

"A quantum logic gate could allow a computer to process information in parallel," Raymer said.

The group is working to stimulate an electron to be used as a tool for processing. This process, if successful, will one day enable people to search large databases in an increasingly short amount of time, Raymer said.

"The larger the job is, the more you benefit from using a quantum computer," he said.

This is made possible by the fact that electrons can be in more than one place at one time. Raymer said physics theory suggests that this logic gate is possible, but actually building the device might prove to be very difficult.

Nilendra Deshpande, associate dean for the College of Arts and Sciences, feels this research presents exciting possibilities for students of physics.

"This quantum optics group is one of the strongest in the country," Deshpande said. "Students can work with them and work on exciting projects."

David Foster, a graduate student in physics, is one of the

many graduate students working with Raymer on the project.

"This is an inherently interesting project with great job prospects," Foster said. "The physics work is really interesting and new."

In order for the project to have optimum effect, it would need to take place in a vacuum in very cold temperatures.

"The world is jiggly from heat," Raymer said. "In order to keep an electron in one place for study it needs to be dry and cold."

In addition, many physicists believe the task of building a microchip that relies on such particles is challenging.

In spite of these difficulties, Ken Hardin, the sponsored project administrator for the University, said the project has received support from the Department of Defense and the National Science Foundation, which combined have given the project close to \$1.5 million in federal grants. Raymer said the grant money will mainly go to equipment for the new lab he must construct.

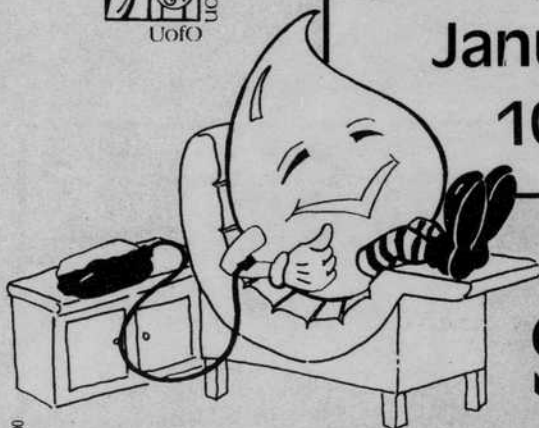
"The U.S. government mainly wants to know if it can be done or if there are laws of physics that prevent this project from succeeding," he said.

Research for the project will be carried out in the Oregon Center for Optics in Willamette Hall.

GIVE BLOOD



EMU Fir Room
Tuesday & Wednesday
January 11 & 12
10am - 3pm



SAVE LIVES

Bring picture ID

Calendar

Wednesday, Jan. 12

EMU Board house meeting. Century E room, EMU, 1222 E. 13th Ave. For more information, call 346-3720.

The Solar Information Center invites work-study students or students interested in volunteer work and internships to a gourmet lunch at noon in Room 206 of Lawrence Hall. Sponsored in part by the ASUO, the Solar Information Center is a student run organization promoting higher awareness toward conservation and renewable energy. For more information, call 346-3696.

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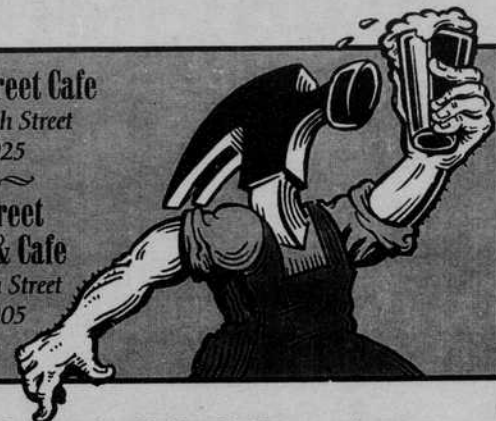
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stuff in the *ODE Classifieds* (Off The Mark, Dilbert, your daily horoscope and of course the crossword.)

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