

EVENTS CALENDAR

Wednesday, Jan. 26	Thursday, Jan. 27	Friday, Jan. 28	Saturday, Jan. 29	Sunday, Jan. 30
Landscape Design	Business Success Workshop	Master Gardener Class	First Aid Class	City League Basketball
7-10 p.m.	7-9 p.m.	8:30 a.m. - 4 p.m.	9 a.m. - 4 p.m.	6-10 p.m.
ELC Pavilion	Small Dining Room	C 133	R 101	Randall Gym

the print

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Nuffer brothers design quick-draw art

By Shelley Ball
Of The Print
Staff photo by Duane Hiersche



Basic Design students at Clackamas Community College may soon learn to drastically cut time used producing designs with the aid of computers, thanks to College students Roger and Foster Nuffer.

By combining Roger's knowledge of art and Foster's experience with computers, the two brothers are the first at the College to successfully program a computer to produce and print out dynamic symmetry designs in 20 minutes, as opposed to 12 hours drawing by hand.

Because the system saves on time, Roger said he and his brother Foster would like to

demonstrate their system either at the Art Center with a portable computer, or at the Study Skills Center sometime next term, although he stressed that they would need special permission before they could do so.

The method for combining design and computer science came at the end of last term while Foster was doing a calculus program, in which he had to graph equations. From this Foster and Roger designed a formula to program a basic design, after which they obtained special permission to program the design using the Apple Computers in the Study Skills Center located in McLoughlin Hall.

"Mr. (Norm) Bursheim said that we (Basic Design students) could probably do these designs on a computer, but nobody had the knowledge to do it," Roger said. Bursheim is the art department chairperson.

Since that time, Roger and Foster have on computer disks two dynamic symmetrical designs, one of ancient Greek descent and the other created by Bursheim. From these two designs hundreds of design variations can be printed out through either black and white or color printers, Roger said.

Both Roger and Foster estimate at least 30 hours of their free time are involved in the project, which they are currently working on to update and improve.

"It's turned out as good as I thought," Foster said, although he explained that it can be hard to program sometimes due to the fact that the computers can erase parts of a program.

"Some people think that the computer will take away from the artist, but I see it as an advantage because you can get new effects, it's faster, and you can do designs on a broader scale," Roger said.

State of the Union

Reagan focuses on social security, deficit

By Rick Obritschkewitsch
Of The Print

President Reagan spoke optimistically last night about national economic recovery in his State of the Union address.

Reagan announced that he would "urge Congress to enact a bill by Easter causing sacrifices by all while imposing undo burden on none."

A four-part recovery plan was introduced by the president. First is a federal spending freeze, "to hold the line on inflation." Also a six month freeze on retirement benefits and federal pension. Reagan said he felt bad about freezing military pensions but it was necessary.

A standby tax was also suggested, less than or equal to one percent, for no more than three years.

Speaking about the nation's unemployment situation, Reagan said, "We must find jobs for all Americans," and contended that his plan will create jobs for most Americans. Included in the president's planned relief for the unemployed is a sub-minimum wage for youth summer employment.

Also Reagan hopes to set up training programs for those who have been unemployed for long periods of time, those new to the job market, and displaced homemakers.

In order "to keep an edge on high tech," the U.S. must improve the quality of education with block grants and tuition tax credit, "for those wanting to send their children to private and parochial school. Amendment for prayer in public schools is still among the president's goals, Reagan said,

"God should have never been excluded from the school system."

Reagan then turned his attention to the equality of women. The president said he would work to "enforce a child support laws, which primarily concern women, and promote equality for women."

Still speaking on equality, Reagan said he would like to "extend the civil rights commis-

sion," which expires this year.

The time has come "to wage an all out war against organized crime," giving more aid to the victims.

Turning to the elderly, Reagan suggested "curbing health care costs," and giving catastrophe insurance to older Americans.

In International affairs, the president said America "must

advocate free trade and . . . establish democracy throughout the world." He added that the "American uniform should be worn with pride." He stressed that "arms reduction aids both sides."

Reagan concluded by saying the government needs to take the lead in restoring the economy. "The government needs to help," he said, "and not hinder the economy."

inside . . .

Rhythm and rhyme at the College Jazz Festival Page 3
College Bowl bites the dust Page 4
Wrestling team brings home the gold Page 5

