



MIKE KREMIN

Staff Photos by Duane Hiersche

About Life... Something new under the sun

By Laura Henkes

"Solar Home Design," a class that the College is currently offering, explores the fundamentals of solar energy; an energy source that's being used extensively in new home construction as well as in home remodeling.

The passive solar function, the dominant theme of the class, is so extensive in new home construction that a Passive Solar Parade of Homes will be open to the public free of charge in Hillsboro May 29-June 13.

However, the instructor of "Solar Home Design," Mike Kremin, stresses that his students learn the fundamentals of passive solar energy as well as the comparative costs of other methods and back-up systems.

"We start out with energy conservation which involves thermal performance analysis of a structure so that you can

This is the second term that Kremin, a part-time teacher at the College has taught the class. His full-time employment with Clackamas County involves checking all of the plans of alternative energy systems that go through the county and ties in closely with the class.

As an engineer for a consulting engineering firm, Kremin was doing solar studies as far back as 1968. And he believes that solar energy is definitely here to stay. "You just watch the cost of energy," he said, "In a few years the cost of energy will cost as much as your house at the rate of increase. This is regardless of the type of energy."

Kremin feels that the new development in solar energy for the future will be in the area of "photovoltaics" (converting light energy into electrical energy). The conversion of

Letter, petition campaign waged

By Darla J. Weinberger
Of The Print

The Associated Student Government has organized a federal petition along with letters addressed to the two Oregon Senators and four Congressmen, concerning the cuts in the Student Financial Aid Program.

There have been over 2,600 letters signed by students and 213 signatures on the petition. "It is saying that the signed students feel that there should not be any further cut in funding of the Federal Financial Aid Program," Assistant Dean of Student Support Services Lee Fawcett said.

According to the ASG approximately 300 students would be forced to leave the College because of lack of financial aid. The College would be reduced \$400,000 in the financial aid from 1982 to 1984. The Supplemental Educational Opportunity Grants would be abolished, and the National Direct Stu-

dent Loan would be cut 35 percent.

Also, the maximum amount given for the Pell Grant would be reduced from \$932 per student to \$306. Married and single parent students would be less likely able to attend college and cutbacks in the College Work Study would mean fewer jobs.

"Last summer part of the budget at the federal level and funding for the federal financial aid programs were cut. Some programs were cut as much as 30 percent. For next year the funding will be down \$200 million from school year 1981-82," Fawcett said. "The big concern is for the 1983-84 school year. The money the federal government puts in for its budget for 1982-83 is really used in terms of financial aid purposes for 1983-84.

"There is also a proposal for a nation wide cut in funding of \$1.73 billion," Fawcett said. "Essentially that's cutting most programs in half."

According to Fawcett, "The House of Representatives

passed resolution number 422, which says that members of the house support the idea of bringing funding back up to where it had been before all the cuts started. Also, to continue to make sufficient funds available for student loans.

"I think the student letter writing here and across the nation is having some impact," Fawcett said.

Destructive urges focus of class

Causes and effects of destructive health and mind patterns will be explored during a workshop at the College.

"Breaking Destructive Health Habits" will be offered from 7-10 p.m., in the Community Center, room 101. Taught by registered nurse Marilyn Bohan and mental health therapist Ed Wilgus, the three-hour workshop will assess destructive forces such as addictions, habituations, dependencies and obsessions. Tips for improving health and mental patterns will be shared both individually and in the group.

Against college Union drops grievance

A grievance has been filed and subsequently retracted, regarding the firing of Dory Toman, section secretary for the College Foundation.

Carrie Heaton, support staff union leader, explained that Toman took a leave of absence last month due to medical problems. At that time, the College considered firing her for undisclosed reasons.

"They (the College) thought that she was a probationary employee," Heaton said. The College has a three-month probationary period for
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all employees. Toman has worked for the College since Sept. 10, 1975, and has been secretary to Foundation Director Bill Anton since July 1, 1981.

"It was a misinterpretation of the contract," Heaton said. "We felt the College read it wrong."

Consequently, the College has agreed to keep Toman on contract. However, she will no longer work with the Foundation. "We're not real sure where she'll work yet," Heaton said. In response, the union has pulled the grievance.

"You could unplug PGE for approximately \$3,000 with a system life of 20 years."

quantify where heat loss is going," Kremin said. He said that once the student understands this, he is ready to explore solar power systems and the energy storage perspective of the class.

Solar energy use in residential housing is still a relatively new concept. As a result, Kremin pointed out, most of the people selling systems in this industry are not professional.

Kremin's goal for his students is that "When they get out of this class, they will be able to talk to anybody about solar energy." Thus, the class provides consumer awareness in this specialized field.

Students in the class come from all walks of life. Kremin stressed that he teaches math necessary to function in the class. He added that figuring "areas" in structure is about the most difficult mathematical problem that would be encountered in the class.

light energy to electrical energy is accomplished by the use of a silicon cell which is activated by the sun's rays and, according to Kremin, a normal cell puts out about 1.2 volts.

Although Kremin said "it will be another country that introduces photovoltaic systems," he believes that it will be mass produced and will be available and cost-effective throughout the United States. His estimate of the cost: "You could unplug PGE for approximately \$3,000 with a system life of 20 years."

With all the new developments and changes in the solar industry and the potential for innumerable changes in the future, classes such as "Solar Home Design" offer students a chance for informed decision making in the increasingly important energy market.



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