

EVERGREEN EXPLORES ENERGY ALTERNATIVES

Adding the finishing touches to Evergreen's hybrid car, Tumwater Middle School teacher Dennis O'Hare plans to take the innovative energy-saver on the road later this year for demonstrations in ten Washington cities. The Bradley GT body will enclose the frame of the hybrid, which first appeared on campus, driven by student Chris Retzler (insert) at a demonstration before students in the Energy Systems academic program.

Energy Explorations

Continued from cover

Our issue opens with a look at the college's latest innovation, a hybrid car, conceived by students and completed with the help of faculty, off-campus sponsors and the State Energy Office. Powered by gasoline and electricity, this nearly completed fuel saver was preceded to campus seven years ago by the chunky, noisy and highly efficient Pegasus, an adaptation of the German World War II wood-burners that could run a mile on a six-inch hunk of wood.

Faculty members have brought us up to date on an array of energy projects. Dr. Richard Cellarius and Dr. Jeff Kelly have reported their efforts to invent a leaf—a human-made photosynthetic membrane which can capture and use sunlight. Dr. Jacob Romero has shared his search for solutions to home energy problems through application of solar power. Dr. Rob Cole has led us through his studies to underground sites in Tunisia, where home energy efficiency was achieved hundreds of years ago.

And, Evergreen students from every corner of this country have shared their experiences in the "real world" of energy application. They're working as engineers, consultants, designers, installers, teachers and administrators of private businesses and public agencies from Portland, Oregon, to Charlestown, Massachusetts.

Also in this issue are news on state-ordered budget cuts, a tribute to Evergreen faculty artist David Gallagher, an update on Geoduck inter-collegiate sports, a complete report on Reunion '81 and a grateful accounting of those who contributed record-breaking amounts to the Evergreen Foundation during the past year.

Evergreen's Hybrid Car Blends Student, Community Talents

By Mark Clemens
Take two students, one teaching assistant, and a biology teacher from Tumwater; then add the mutual desire to build a car that combines the best of two power sources into a better vehicle.

Blend in a car body with drive train, a gasoline engine, an electric motor, electric generator, and six deep cycle batteries. Pour some 2000 man-hours of labor and research into the mixture over a period of seven months.

Season with meters, headlights, and a sleek fiberglass shell.

Continue creating until the final product—Evergreen's hybrid car—is ready to roll.

The hybrid car recipe stood near completion as the *ReView* went to press. It awaits only the union of body and shell, and the addition of more wiring before it departs December 1 for a road show at colleges around the State of Washington.

Just last fall, the hybrid was only a gleam in the eyes of Paul Kaminski and Chris Retzler, two students who conceived of building the vehicle for their year-long project in the Energy Systems academic program, directed by faculty physicist Rob Knapp. Kaminski, then working as a student aide in the school's machine shop, provided the nuts and bolts of the team with his welding and mechanical know-how; while Retzler brought his knowledge of electricity, including a year-and-a-half of electronics experience in his native England.

Hybrid cars have long been envisioned as a means to reduce the size of an average car engine by complementing it with another less costly power source. Inventors have sought to build smaller engines that work at a steady peak full-time and store surplus energy during stops and downhill stretches.

Evergreeners were determined to try their version of a hybrid, but it's been no easy task.

"Paul and Chris worked very hard," Knapp reports. "By early Winter Quarter they had their design proposal ready, outlining a rationale for what they thought might make sense."

"Ideally," says Retzler, "we wanted the long-range capability of diesel or gas combined with the quietness, economy, and non-pollution of electricity."

Although they weren't first on the scene, Kaminski and Retzler sought to add their innovations to the hybrid concept. They used Evergreen's computers to simulate stop-and-go traffic, figure amperage needs, and calculate energy recovery capacity of batteries. The most original part of their design was the addition of an electric generator to reduce the number of batteries required, and lighten the car's load.

"They had a good idea," recalls Knapp, "but it was going to cost several thousand dollars."

So Kaminski and Retzler entered the next phase of the project: looking for money at campus, state, and federal levels. They went to Evergreen's Development Office, but decided that their needs were too great for a Foundation grant. They tried the state energy office, then applied for an Appropriate Technology Small Grant. No luck either place.

Then Knapp introduced a new element to the team: his teaching assistant, Sean Riley. "My part in the project was minimal," says Riley, a science major, "but the one thing I did do was suggest we advertise for a sponsor to share expenses."

Riley's suggestion hit paydirt. By putting a classified ad in the *Daily Olympian*, the team suddenly gained more offers of parts and assistance than they knew what to do with.

"The response really was amazing," Riley says. "Most callers were interested in working on the project." But no genuine sponsor appeared until Dennis O'Hare of Tumwater saw the hybrid car newspaper ad.

A biology teacher at Tumwater Middle School for 18 years, O'Hare (pronounced O'Hara) had long wanted to create his own alternative form of transportation, but lacked the necessary technical skills. O'Hare, Kaminski and Retzler agreed to a contract that exchanged the students' design for his sponsorship.

O'Hare admits to being skeptical about working with anyone, but found that "with Paul as the mechanic, Chris the electrician, and myself troubleshooting in between, we got things done as a team."

"Everyone benefited," says Riley. "It was a very good merge of college and community participation."

Actual construction consumed most of May, a month devoted to burning the midnight oil. By the first week in June, the hybrid car was ready for its unveiling at Kaminski and Retzler's final presentation to the Energy Systems Program. It was only a naked Volkswagen chassis with two seats and six batteries mounted in the rear. But the car ran, much to the delight of a crowd of onlookers, more than a few of whom got free, electrified rides.

Two months later, after rejecting use of a diesel engine as "too heavy and too expensive," the team purchased and installed a 185 cc Honda motorcycle engine. It and the electric motor each generated 12 horsepower, but together their output peaked at 30 hp.

The inventive team next turned their attention to a body for their creation. O'Hare acquired a Bradley GT body, a streamlined fiberglass shell that is 75 percent complete. Then in the midst

of preparations to complete wiring and begin road tests, the trio got good news: the State Department of Energy had awarded them \$3500 to secure the rest of the necessary parts and take the car on the road for demonstrations in ten cities throughout the state of Washington.

With the work nearly completed, Kaminski and Retzler have moved on to other projects: Paul is studying engineering at the University of Washington and Chris is enrolled in an Evergreen academic program called "Short Fictions" which, he says, gives him a "breather" from energy studies.

But the two still work with O'Hare when they can and they both view their past six months as preparation for the future.

"I definitely see energy systems as a way to make a living," Retzler says. "I know now how to organize a big project, manage time and resources, and complete research and promotion. Most of all, I know we can make something that works."

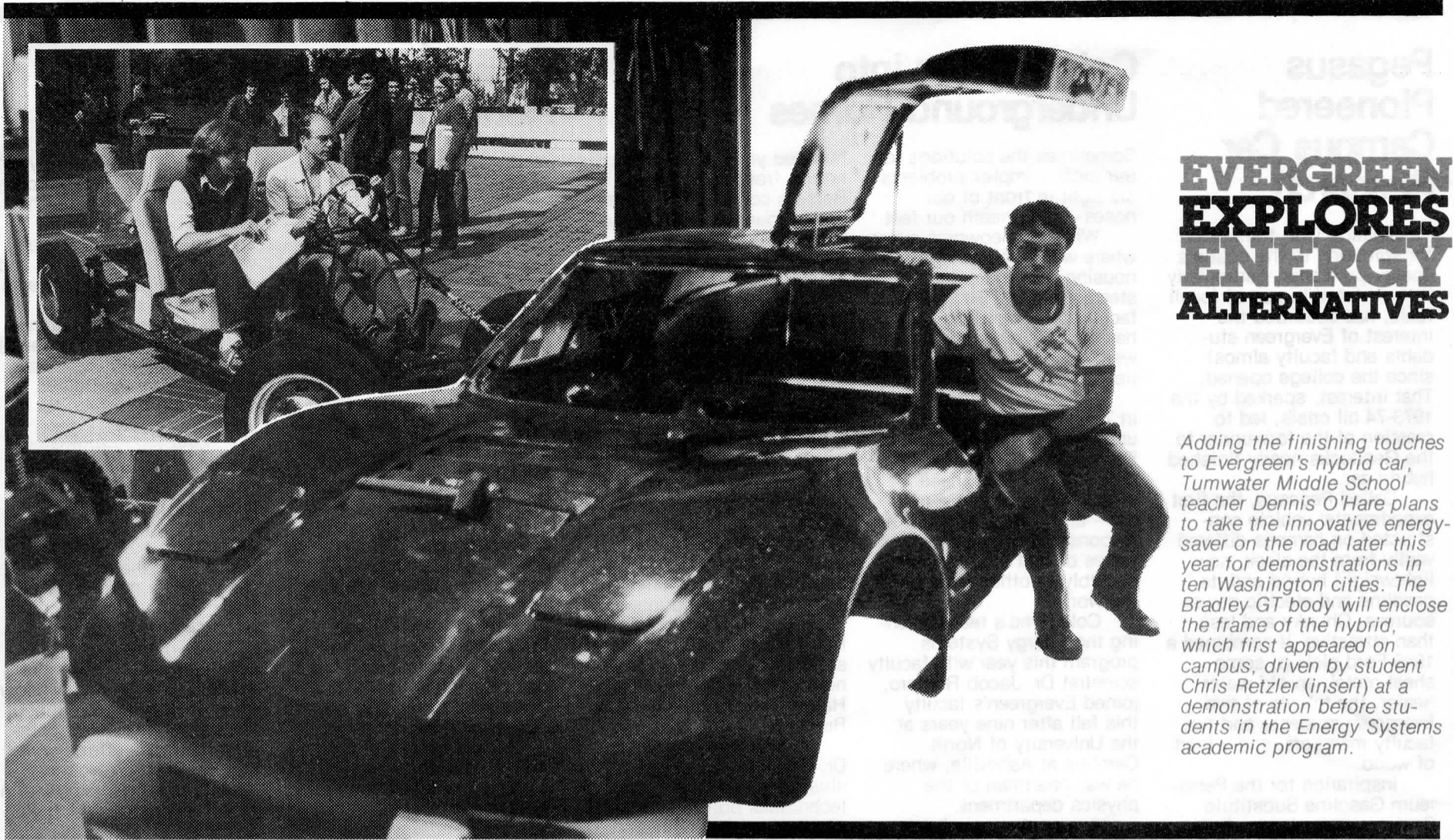
O'Hare also shares a real sense of accomplishment. "The hybrid is unique," he comments with pride.

"There's not another one like it in the world." In the process of building it, he adds, "I learned a lot about electricity and mechanics, even how to weld. Now I feel I can fix almost anything that might go wrong with it."

The three, with help from Knapp, Riley, friends and supporters, amply demonstrate achievement of academic goals originally outlined for the Energy Systems Program.

"This program," says the 1980-81 Catalog, "seeks to develop (in students) a broad and balanced understanding of the energy problem and to build up the technical ability to analyze energy systems in detail, especially in small-scale applications."

You have only to view the Evergreen hybrid to know that goal's been reached.



Pegasus Pioneered Campus Car Research

Fascination with the search for solutions to the nation's energy problems, particularly those related to use of fossil fuels, has absorbed the interest of Evergreen students and faculty almost since the college opened. That interest, sparked by the 1973-74 oil crisis, led to creation of the forerunner to the Geoducks nearly finished hybrid car.

Called Pegasus, the first experimental vehicle constructed on campus differed vastly from the sleek, new lightweight hybrid and its gasoline and electric power sources. Chunky and less than attractive, it combined a 1946 Ford pickup, some sheet metal, an old water heater, the talents of five Evergreen students and two faculty members, and a load of wood.

Inspiration for the Petroleum Gasoline Substitute Systems came from a book called *The Pegasus Unit*, written by Evergreen faculty oceanographer and engineer Niels Skov and anthropologist Mark Papworth, who were intrigued with the original Pegasus units used by the Germans during World War II.

Caught without their own oil supply, the Germans developed a portable furnace that turned heat, wood, or peat into gases to propel internal combustion engines. As the war wore on, they ran ambulances, tanks, trucks and cars with whatever they could find to burn.

When the Arab oil embargo hit the United States in 1973-74, a quintet of Evergreen students (Dan Blincow, Michael Momany, Eldon Brown, John Burnell and Don Samuelson) decided to reinvent the German system. It took them less than a year and about \$200 to build their own version of Pegasus, which averages about one mile per six-inch chunk of wood.

But interest in the Evergreen Pegasus faded as the availability of gasoline increased. "The idea is good," says Dr. Papworth, "but not really practical unless there's a shortage or complete absence of gasoline."

"We'll see what happens when another oil embargo comes along," adds Dr. Skov. "Using Pegasus vehicles is a matter of convenience, and we as a society are accustomed to doing things in a convenient way."

The Pegasus Unit, in its second printing, is available by contacting either Skov or Papworth. Meanwhile, the hybrid car continues what seems to have become an Evergreen tradition.

Cole Delving into Underground Homes

Sometimes the solutions to our most complex problems are right in front of our noses—or beneath our feet.

While homeowners everywhere watch the cost of housing and energy climb steadily higher, Evergreen faculty physicist Rob Cole has cast his eyes downward—to examine the potential for underground housing.

After two summers spent in Tunisia studying the underground homes of Romans and Bedouins, Dr. Cole is convinced these structures represent a rational—and energy efficient—response to the harsh climates of that country—and possibly to other areas of the world.

Cole, who's team teaching the Energy Systems program this year with faculty scientist Dr. Jacob Romero, joined Evergreen's faculty this fall after nine years at the University of North Carolina at Asheville, where he was chairman of the physics department.

An energy consultant who is particularly interested in application of solar energy devices to homes and large-scale buildings, Cole served for four years on the North Carolina Energy Policy Council. As chairman of its research and development committee, he helped establish the North Carolina Energy Institute that funded alternative energy research.

As an offshoot of his fascination with energy studies, he traveled to Tunisia in the spring of 1980 to study ways two distinctly different cultures adapted their homes to local climate conditions.

In about 200 A.D., the Romans built a number of underground homes in the city of Bulla Regia. Fourteen

hundred years later, on land not far from there, the Berbers constructed whole underground villages along the northern edge of the Sahara Desert. Many of those structures are still occupied.

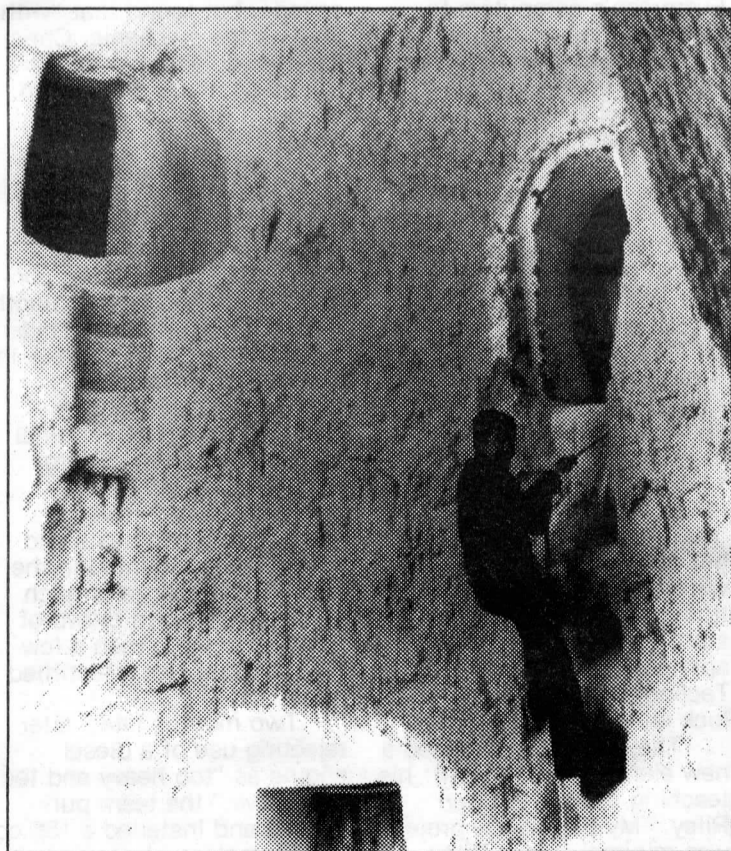
The contrasts and comparisons between facilities built by the two civilizations drew Cole back for additional study last summer. On that second trip, he focused more closely on the use of natural lighting and gained additional information on the remarkably efficient heating and cooling systems in the country where daytime temperatures of over 125 degrees are common.

He'll share the results of his findings with students in a special workshop later this year, and with the public in a free Tuesday at Eight lecture set for November 17, beginning at 8 p.m. in the Recital Hall of the Communications Building.

In both presentations, Dr. Cole will use slides to illustrate the architectural techniques both cultures used to escape the heat. He'll also offer observations on his work with underground housing in the United States and its potential for the Pacific Northwest where, he says, "it probably doesn't make economic sense given our incredibly wet ground and mild temperatures."

He may also be encouraged to share his plans for a new energetic exploration—to the Peoples Republic of China where more than 10 million persons have been living since the 1930s in underground homes in the Loess Highlands between the North China Plain and the deserts of Central Asia.

"Very few westerners have been to that area for 50 years," Dr. Cole observes. "I want to be among the first to see what's happening."



Pit homes like the one above are accessed through huge stairways leading underground into large excavations. Residents then travel from room to room via dug-in stair steps along the inside

core of the structures. Faculty physicist Dr. Rob Cole explored these structures in two summer-long trips to lands bordering the Sahara Desert.

Romero Explores Solar Home Improvements

While one Evergreen faculty member has gone underground for solutions to home heating problems, another is looking skyward and exploring ways to improve solar home construction.

Dr. Jacob Romero, an applied scientist, returned this fall from a year's leave of absence to coordinate the Energy Systems Coordinated Studies Program. He came back determined to further explore an idea he began work on at the Scientific Laboratory in Los Alamos, New Mexico.

The idea, he says, could change the way passive walls work in solar homes. "We're studying a material with very unique thermal properties," Dr. Romero says. "It's a chromium oxide foil that absorbs solar rays and has a high resistance to emitting them. In other words," he explains, "it traps heat."

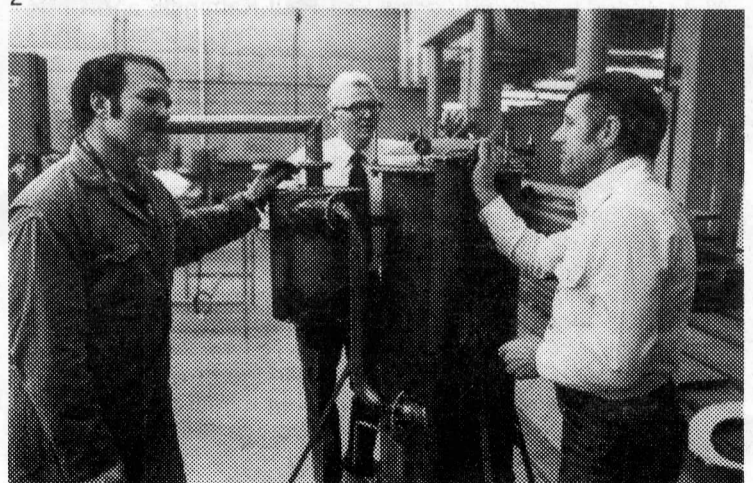
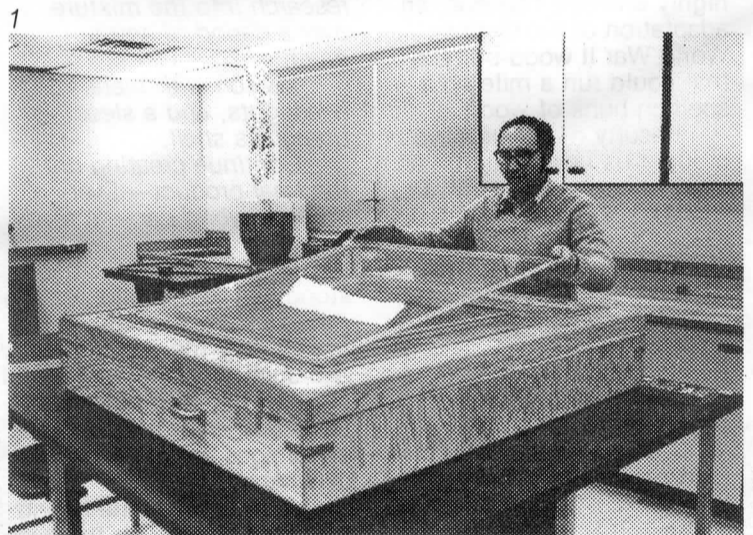
A passive wall supplies heat to a solar home by warming up in the sun during the day and giving off warmth as it cools at night. It requires glazing on the front to retain heat efficiently, but if the foil traps heat well enough, a passive wall could function without glazing, a current inconvenience in solar home design.

"Right now, I'm working with students on analyzing data I gathered in New Mexico," Dr. Romero says. "We will feed the information into a computer and simulate the foil's performance over a whole year. Then we'll know if there's a net energy gain and what it is."

Dr. Romero, a nine-year veteran of Evergreen's faculty, is also researching another idea he believes can be applied to conventional as well as solar homes. He and students in Energy Systems fabricated a device to measure thermal resistance. They're now testing different thicknesses and combinations of glass and other materials in a search for a warmer window.

"Monthly performance curves show that passive solar homes could be successful if the R-value of windows was increased," notes Romero. "If we could just double that value, it would really make a difference. Energy savings could jump substantially."

Like his research on passive walls, Dr. Romero expects work on the window idea to continue throughout the school year. He'll complement those efforts with continued studies on two other topics he's explored in recent years: nuclear fusion and the use of fusion radiation. He spent the summers of 1979 and 1980 conducting research on ways to control nuclear fusion reactions while participating in the Starfire Project, the national project to design a commercial fusion reactor, at the Argonne National Laboratory in Chicago. Last summer in a project sponsored by the Gas Research Institute at Texas A. and M. University, he studied fusion radiation as a means to produce hydrogen, a gas many see as the fuel of the future.



1 Evergreen faculty scientist Dr. Jacob Romero measures heat loss of glass and other substances with this campus thermal resistance device he and Evergreen students perfected.

2 This 1975 photo shows Evergreen student Eldon Brown discussing his version of a Pegasus burner with faculty members Mark Papworth (center) and Niels Skov (right).

Cellarius and Kelly: Tapping Plants for Power

Ever wonder how a leaf works?

Faculty members Dr. Richard Cellarius and Dr. Jeff Kelly did—and they've devoted five years to finding out. The two were interested in making use of photosynthesis—the natural way a leaf captures sunlight with the chlorophyll in its cells.

"Much of the work focused on just understanding the process better," says Cellarius, a biophysicist and plant biologist. Beyond that, they hoped to develop a synthetic solar device that simulated the way plants work and, ultimately, would convert sunlight into electricity.

To do so, the two men and their student assistants made a model of the photosynthetic membrane or, more simply, devised their own leaf. What they came up with was a layer of chlorophyll that was only one molecule thick on the surface of a cup of water. *One molecule?*

"You couldn't see it, of course," says Kelly, a biochemist, "but certain physical properties told us it was there."

By shining light through the chlorophyll film, the team could determine the amount of light captured and then given off by the layer. To measure these emissions, Cellarius and Kelly fabricated their own instrument, a computer-controlled spectrofluorimeter.

"We learned a lot about the art of designing equipment," Kelly says. "It wasn't easy to do."

A portable laboratory computer system controlled the spectrofluorimeter, which was, says Cellarius, "sensitive enough to count individual photons," or energy packets of light. After study-

ing chlorophyll and other plant pigments, the focus shifted to synthetic compounds, specifically, phthalocyanines, a blue-green artists' dye.

Kelly and Cellarius received a National Science Foundation grant for \$132,000 to do their research from 1976 to 1978, but later proposals were not funded. With the assistance of a small grant from the Evergreen Foundation, work continued through the spring of 1980, but has since fallen inactive.

"Jeff and I feel strongly about using students as assistants in research research projects," says Cellarius.

One post-doctoral assistant, Dr. James Gaw, and 14 student assistants worked on the project at one time or another. Several have gone to do graduate work in such fields as physics, medicine, and meteorology, and one student is currently working for the company that made the computer used in the experiments.

"The other thing we got out of the project," says Kelly, "was a model for research at Evergreen."

This model includes having at least two or three faculty members work together on projects, all of whom are knowledgeable on every phase; using basic research methods with undergraduate assistants; and recognizing the need to generate publishable results.

Lately, Kelly and Cellarius's conversations have centered around a new study on photosynthesis, possibly using the spectrofluorimeter again.

"It would be nice to use it," Kelly says. "I don't think anyone has ever built a piece of equipment quite like that."

Evans Tackling Regional Energy Problems

by Judy McNickle

Evergreen's energetic President Dan Evans has been on the road this fall—carrying to the area's newspaper editorial rooms, television stations and public meetings his first report on what he calls "the biggest single issue facing the future of the Pacific Northwest"—achievement of solutions to regional energy problems.

Evans, named last April as chairman of the Pacific Northwest Power Council, shares with seven other men from Washington, Oregon, Idaho and Montana responsibility for developing by April, 1983, a 20-year plan for meeting the region's energy needs "while avoiding the peril of shortages and of excessive price hikes." The responsibility, says Evans, "is awesome."

But, the undaunted college president adds, "it's also an extremely exciting challenge on two counts: it's one of the few major areas of our future over which we have the opportunity to exercise some control; and it's a unique chance to create a new kind of government structure—a regional organization that could become a model for the country on how to jointly solve multi-state government problems."

In addition, says the never-stop-selling-Evergreen president, "it's a chance to involve the college—both students and faculty—in studying and helping solve an urgent, real-life problem."

Evans, who is donating 80 percent of his Council salary to Evergreen for energy-related scholarships, academic programs and research, says the Council has in just five months outlined a "blueprint for action."

"We've determined that the solutions don't lie in choosing between two conflicting ideologies—no growth or pro-growth. It's not," he asserts, "a question

of more or less as much as it's a question of being smarter—smarter in how we use energy and maintain our quality of life."

To achieve that smartness, Evans believes, will involve not only the Council, the Bonneville Power Administration and private and public utilities, but "the consumers—our region's citizens who must be helped to reach and understanding of the elements we face and the choices and consequences that await us."

Evans says for "far too long" the region has complacently accepted the notion that "more power is cheap power." Now it's apparent that development of additional power supplies is "going to be very expensive indeed," that electrical rates are going to "have to take an OPEC-style jump in the near future."

But, Evans sees hope for increased conservation along with drastic rate hikes. "We'll find that as more information gets to the public and citizens learn what the alternatives are, we won't have to dragoon energy users into adopting conservation methods," he says. "We too often underestimate the degree to which people will change their habits and direction and the speed with which they'll make those changes," he adds.

"In the Northwest there's still time to prepare for huge increases in electrical prices. If we let people know exactly what financial impacts to expect, they'll find a way to achieve energy efficiency without sacrificing their life styles."

Evans illustrates the ability citizens have to adjust to price increases by his own reaction to the quadrupling of gasoline costs. "I traded in a station wagon that got 11 miles a gallon for one that gets 30 miles a gallon. In current dollars, my gasoline

bill has not increased." He believes the public will make similar responses to energy price increases.

"We'll begin buying only those appliances that more efficiently use electricity," he predicts. "We'll insulate our homes and our water heaters, and we'll explore other means to maintain our life styles without using as much energy as we've been consuming."

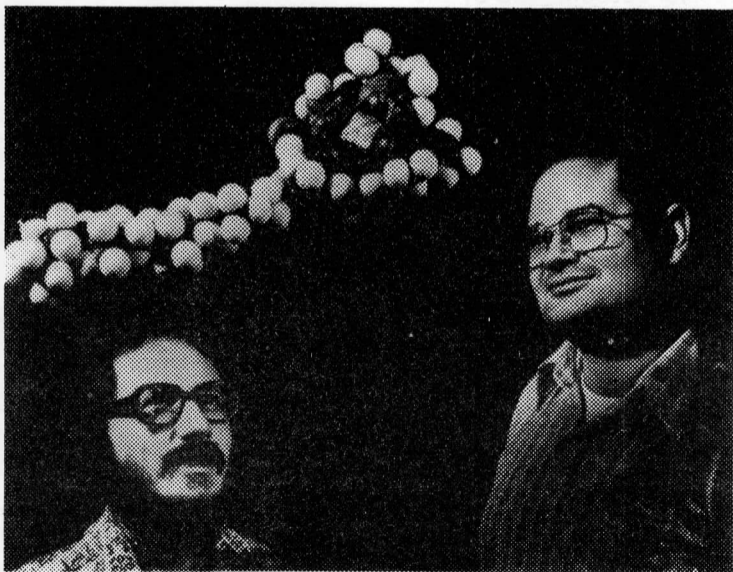
The need to explore those alternatives offers, believes the president, "an excellent opportunity for Evergreen students and faculty to get involved."

Evergreen faculty scientist, physicist Dr. Rob Knapp, has already been named to one of the Council's five major study teams. Others have been asked by Evans for "advice and counsel" on topics ranging from the economics of discount rates for certain electric users to the most productive ways of staging public involvement workshops.

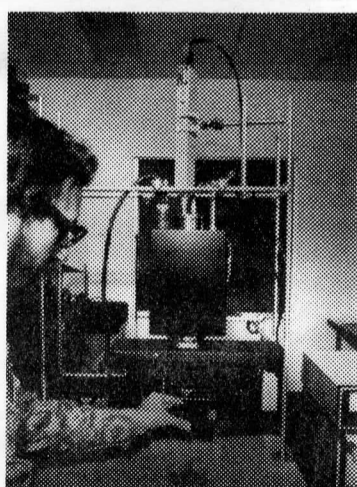
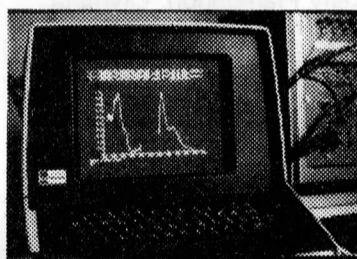
In the future, Evans hopes that his involvement with the Council—and his salary contributions to the Evergreen energy fund—will enable academic programs to become involved in regional energy research, faculty members to contribute their expertise to the search for solutions, and students to serve as interns for energy-related public and private businesses and agencies.

As Evans looks at his unusual dual role—head of the college and chairman of the council—he sees himself as "luckier than the other Council members." "I have access through Evergreen to the kinds of talent that will help us achieve our goals," he says. "And, Evergreen has improved access through me to involvement in crucial issues that affect us all."

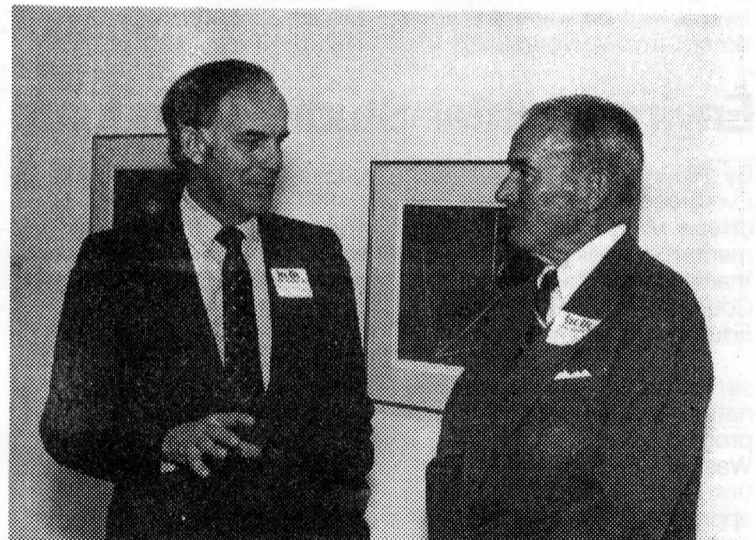
"It is," he concludes, "a mutually supportive arrangement—one in which I'm delighted to participate."



Dr. Richard Cellarius and Dr. Jeff Kelly survey a model of a molecule of chlorophyll, the basic component in the photosynthetic process.



Dr. Richard Cellarius gingerly places a small cup of water into the spectrofluorimeter, which shines light through a layer of chlorophyll on the water, measures it, then analyzes the data on an attached computer.



President Dan Evans congratulates Philip Swain on his election as chairperson of the Evergreen Foundation. Also elected as officers for 1981-82: Katherine Bullitt, vice chairperson; John

Murray, treasurer; and Joan Thomas, secretary. Newly elected to the Board of Governors: Orville Melby, vice chairman of Rainier National Bank.

Alums Apply Energy Know-how Coast-to-Coast

Dozens of Evergreen alums are pioneering new pathways in the fields of energy research and application. One quick afternoon telephone survey unearthed nearly three dozen graduates and former students hard at work as engineers, consultants, designers, teachers, installers, electricians, managers and conservationists in public and private agencies from coast to coast.

Seventeen of those alums are working in Thurston County, several establishing their own businesses which employ other Greeners.

Bard Slaymaker '74, is owner and manager of Energy Works, a heating company in Olympia which sells energy conservation products, including solar and wood heating systems, hot tubs, greenhouses and insulating materials. Helping him with that business are four other Evergreen alums: **Mark Chambers '80**, who serves as sales manager and handles advertising, graphics, and promotion in addition to retail in-store sales; **Steve Kind**, engineer and supervisor of insulation work; **Bing Bristol**, electrician; and **Cathy Hahn '80**, secretary.

Steve Diddy '74, and **Judy Johnson '78**, have formed their own company in Olympia, Sunwest Associates, which provides service in design, consultation and construction of solar green-

houses and water heating systems.

Julian Baker works with Sun Power Company in Olympia developing and marketing photovoltaics, silicone cells which generate electricity from light; and **Tomas Balderston '80**, has just purchased his first Olympia house which he will remodel to incorporate passive solar heating. He hopes the house is the start of a business in remodeling and building structures for solar efficiency.

Pat Cole '81, is director of the Thurston County Energy Extension Service, a nonprofit corporation which provides energy education and consulting, operates a resource center and library, conducts classes and workshops for private citizens and provides curriculum development for public schools. Cole's service is based at the Energy Outreach Center in Olympia, and is a project of the Southern Puget Sound Solar Energy Association, which is staffed by two current students, **Jim Rymsza** and **Anne Malean** who is also President of the Association. **David (Weber) Scharfweber** is secretary of the Energy Association, which focuses on providing educational services on energy and networking with statewide energy organizations. **David** and **Sandy Revesz '79**, have their own business, Puget

Sound Solar Institute, Inc., installing solar water-heating systems and conducting workshops in the Olympia-Seattle area.

Sue Deuter '80, is working on her own in Olympia—designing and constructing solar units. **Tim Ball '80**, is beginning his own business in Thurston County as a consultant in energy design and construction; and **John McLaren '81**, is also working as a consultant on energy projects in the capital city.

Two Evergreeners have taken their energy expertise to the same northeastern Washington town of Republic. **Jerry Graser '81**, is installing solar and wind energy systems while **Mark Terjeson '79**, is working on solar contracting and installations.

Seattle has attracted a number of energy-minded alums. **Matt Crosby '80**, and **Michael Corke '76**, are working with Balance Associates, a solar design architectural firm. Crosby conducts solar analysis for Balance and also works for his own company, Solarsoft, which provides microcomputer programs for solar energy applications. Corke serves as the company designer for Balance. **Paul Nishman '78**, works with Alten Northwest in Seattle as an engineer and installer of heat pump systems. **Marty Jackson '80**, has his own company, Sun Designs, which also installs solar

water heaters in the Seattle area.

Hank Date '80, and **Deanna Smith** have combined talents in Seattle to run a weatherization program for low-income families.

In Tacoma, **Mike Lubliner '78**, works with Ecosystems, which concentrates on residential and commercial solar water-heating applications.

Portland has also drawn energetic alums, including **Terry Oliver '73**, who serves as a public utilities specialist at the headquarters of the Bonneville Power Administration. Oliver has developed a review process for applications from state and local governments and Indian tribes seeking funds for energy conservation and renewal resource planning projects. He has overseen awards of 18 grants for a total of nearly \$700,000.

Also working in the Portland BPA office is **Marc Ross '74**, who prepares environmental impact statements for the power management office.

Across town, **Elizabeth Boyle Nickerson '75**, works as an energy consultant for Portland Energy Conservation, Inc., a nonprofit corporation which helps businesses receive energy audits and find ways to reduce power consumption.

In Bloomfield, Colorado, **David Low** is vice president

of Thermal Technology Corporation, a moveable insulation factory which produces special curtains and seals to prevent heat loss through windows, **Peter Mullineaux '79**, is in Glenwood Springs, Colorado, working as a computer analyst for Solar Pathways, a consulting firm.

In the northeast, **Sergio Siani '79**, is an energy consultant for Energy Design Team, Inc., of Charlestown, Massachusetts. And, in the southeast, **Mark Hughey '81** is traveling through several states, conducting solar assessments of government buildings and installations for the U.S. Forest Service.

And, back on campus, four Evergreeners haven't waited until graduation to get to work. **Eli Beamon**, **Safiya Crane**, and **Tom** and **Elli Harron** are building two solar greenhouses in the Little Egypt Valley, 10 miles west of Shelton. Funded in part by an Appropriate Technology Grant from the Department of Energy, the four are in the middle of a two-year process of completing the structures, installing monitoring systems and establishing a research center office on their 44-acre farm. Once they've accomplished those tasks, they'll begin offering demonstrations and workshops on the use of solar energy.

1981-82 Foundation Scholars Honored

At a special reception hosted by the Evergreen Foundation Board of Governors, the 1981-82 Foundation Scholars were welcomed officially to the College by President Dan Evans, the governors and many members of the Evergreen community.

Chosen for their academic achievement, leadership ability, community service, and artistic and other creative talents, the new Evergreeners were given compliments and challenges.

"You should be very proud of yourselves," said President Evans. "The competition for these scholarships was extremely keen this year and you were chosen from a strong field of competitors. However, your talents will be wasted if you do not involve yourselves in

every aspect of the college community. We look to you to be leaders in helping us meet the challenges that face both Evergreen and higher education today."

This year's Foundation Scholars include: **Marybeth Berney**, Pullman; **Teresa Bill**, Midway; **Leyla Brown**, Lakeside; **Cynthia Cameli**, Port Angeles; **Carol Coutre**, Tacoma; **Ellison Davis**, Bremerton; **Robert Dietrich**, Seattle; **Rick Dupea**, Tacoma; **Allison Green**, Seattle; **Dennis Gustafson**, Auburn; **Cindy Heimel**, Olympia; **Steven Heinke**, Marysville; **Robert Hornbein**, Bellevue; **Christine Jeffko**, Seattle; **Deborah Shulke Jeffries**, Castle Rock; **Susan Johnson**, Vancouver; **Haline Kilroy**, Hartford (CT)

Jonathan Knapp, Portland (OR); **Cynthia Kouris**, Denver (CO); **Tracy Krumm**, Burnsville (MN); **Amy Larson**, Tacoma; **Susana Liben**, New York (NY); **Katie Lieuallen**, Portland (OR); **Curtis Marsden**, Vancouver; **Robert McKenzie Sullivan**, Seattle; **Wendy Miller**, Lynnwood; **Elizabeth Milliman**, Seattle; **Renee Mooman**, San Diego (CA); **Rodd Pemble**, San Francisco (CA); **Kelly Plamondon**, Olympia; **Jeff Rice**, Goldendale; **Beth Scouller**, Tacoma; **Eric Seabloom**, Shoreview (MN); **Amber Shinn**, Bellingham; **Eric Simmons**, Seattle; **Cary Stanley**, Enumclaw; **Billie-Gwen Tippet**, Leavenworth; **Marian Vimont**, Centralia

Evans Creates Energy Fund

Evergreen President Dan Evans is almost single-handedly building a college energy studies fund through contributions of his salary as chairman of the Pacific Northwest Power Council.

The president receives part-time pay for his work as chairman of the eight-member multi-state organization created to solve the region's energy problems. He's chosen to donate 80 percent of that income to an Evergreen Energy Studies Fund, designed to support the college's expanding academic interest in energy and environmental studies.

"So far we've simply earmarked the funds in a special account held by the

Evergreen Foundation," he explains. "We've a number of proposals yet to study on how best to allocate the money, and we've not taken any final action."

Among activities for which Evans would like to see the money used are: scholarships for students interested in pursuing energy studies, research funds for faculty to update or expand upon their knowledge of new developments in energy, and creation of academic programs or internships which "directly involve students in helping solve the energy problems facing the Pacific Northwest."

Environmental Studies Graduate Program Approved

By 1983, budget permitting, Evergreen will be able to offer a Masters of Environmental Studies (MES) degree, thanks to action taken by the Council of Postsecondary Education last month.

The Council, which serves as an advisory coordination board on academic program development for Washington's higher education institutions, unanimously approved creation of Evergreen's second graduate program, which will encompass both environmental and energy studies.

Funded by the 1981 state legislature, the MES program was originally scheduled to open for approximately 30 graduate students next fall. But college officials have

decided to delay its opening until fall of 1983 as part of the school's 10.1 percent budget cut ordered by Governor John Spellman (see related story this issue).

Faculty members **Oscar Soule** and **Richard Cellarius**, two members of the team that developed the new program, say when it opens the new study will "bridge the gap between environmental science and environmental policy" and prepare students to handle matters that are traditionally separated as either "technical" or "societal."

The two believe such separations have in the past impeded creation and implementation of "workable solutions to environmental problems that beset private and public organizations at all levels."

To insure instruction that will lead to workable solutions, faculty will rely on the small discussion group (seminar) teaching mode and divide students work equally between environmental science and environmental policy. Soule emphasizes, "we'll teach the two in an Evergreen-style, coordinated fashion."

Faculty will expect students to specialize in studies of either land and water resources or energy resources. The course of study will enhance their ability to work effectively in a variety of professional fields, including government, industry, labor and education.

All students will be required to complete 72 credit hours by attending full-time for two years or part-time for

three. All enrollees will first take a core coordinated study that will provide the basis for their future work. Each will then have to complete six of nine possible elective courses that will include two offered in Evergreen's other graduate program, Masters in Public Administration. The elections will be either technically or management oriented.

In addition, MES students will design and complete a project requiring at least 16 quarter hours of work, normally through a service-oriented assignment shared by a group of students for a contracted clientele in the community.

In that way, faculty believe, "students will learn to work with a team on the solution of real problems within real time constraints."

dents by next fall. People interested in being placed on the MES mailing list should send their name and address to Evergreen's Admissions office.

Throughout the MES program, students will have a direct line to that real world via an advisory committee composed of more than a dozen representatives from private and public agencies, including planning consultants, energy industry spokesmen, elected state and local officials, academicians, and local business people.

Complete information on the MES program will be available for potential students by next fall. People interested in being placed on the MES mailing list should send their name and address to Evergreen's Admissions Office.

AlumNews

Here's Your Board, a Sterling Lot

The Alumni Association is managed by your Board of Directors. They are your representatives and welcome your ideas and comments about Association activities.

Newly-elected to the Board on September 12 are:

J.C. Armbruster '81

Lives in Olympia, and is currently conducting a job search in the field of journalism in the Olympia-Seattle area. Last year, J.C. served as student representative on the alumni board. He studied English and writing at Evergreen, served on the Publications Board, was a contributing writer for the Cooper Point Journal, held several journalism internships, and was a tutor at the Learning Resource Center.

Scott Baker '77

Lives in Olympia and is vice president of Capital Tree Service, Inc. (tree surgeons). He studied Human Ecology at Evergreen and helped start the Geoduck Yacht Club and the early outdoor education programs. He has attended the American Avalanche Institute in advanced avalanche forecasting and has been a staff instructor for two Outward Bound programs.

Tim Bessey '75

Lives in Vancouver and manages the camera department of a Montgomery Ward store in Portland. He studied psychology and corrections at Evergreen and is currently active in Ptarmigan's Mountaineering Club and church activities.

Lisa Fleming '81

Lives in Olympia and is working in the Communications Section of the Department of Labor and Industries as a writer and editor of publications. Lisa served on the Evergreen Council (former Sounding Board) and the Graduation Planning Committee.

Keith Goehner '78

Lives in Spokane and is currently seeking work. Keith studied public administration and cooperative education administration while at Evergreen and was a student cooperative education counselor. He has worked for Pizza Hut Restaurants in Everett and Intercity Transit in Olympia.

Mike Hall '74

Lives in Olympia and works as a counselor in the Cooperative Education office at Evergreen. While an Evergreen student, Mike was active at KAOS, served on the S&A Board, and worked as a student financial aid counselor. Mike served on the founding Alumni Board in 1978-79. Mike was creator, owner, and operator of the Gnu Deli restaurant in Olympia for several years and is a Universal Life Church minister.

Anne Pflug '76

Lives in Bellevue and is special assistant to the Bellevue City Manager. She is also midway through her studies for an MBA at Seattle University. Anne has worked for the cities of Poulsbo, Kirkland, and Pasco, the Puget Sound council of Governments, and the Governor's office. She studied city planning at Evergreen, served on several DTFs, and held several internships.

George Schroeder '73

Lives in Tacoma and is a U.S. history and civics teacher at Surprise Lake Middle School in Milton. George has also taught at Fife High School. George studied history at Evergreen, and earned his teaching credentials from Western Washington University. He is currently president of the Fife Education Association.

Neil Shamberg '80

Lives in Olympia and is a real estate salesperson for Van Dorm Realty. Neil studied Management and the Public Interest at Evergreen. He has taught classes in principles and practice of real estate and has worked for the Disability Insurance section of the Department of Social and Health Services. Neil is an elder of the United Churches of Olympia.

Board members continuing their terms are:

Dave Anderson '74

Lives in Seattle and works for Wehrman Consultants Associated, Inc., a company specializing in designing a crisis relocation plan for the Pacific Northwest in the event of nuclear attack. Dave is also a consultant who assists local governments in developing 911 emergency communications systems and is also attending the University of Washington studying for a master's degree in public administration. Last year, Dave served as Association Secretary.

Debbie Creveling '75

Lives in Olympia and is administrative assistant to Secretary of State Ralph Munro. She formerly served as Handicap Recreation Coordinator for the Thurston County Parks and Recreation Department. Debbie was a member of the founding Alumni Board in 1978-79, and this will be her fourth year on the Board of Directors. She has served as 2nd Vice President of the Association in 1979-80, and in 1978 was the first alum to be appointed to The Evergreen State College Foundation's Board of Governors.

Bob Crocker '74

Lives in Olympia and is supervisor of classification and parole at the Washington Corrections Center in Shelton. He has also worked at the Purdy Treatment Center for Women and Cedar Creek and Naselle Youth Camps. He is an executive board member and past local president of the Washington Federation of State Employees. Bob studied psychology and political science at Evergreen. This will be Bob's third year on the Board, and he will serve as Secretary. Bob has served the Association in past years as 1st Vice President, Program Committee Chair, and Legislative Relations Committee Chair.

Joe Dear '77

Lives in Olympia and works in Seattle as the acting research assistant for the Washington State Labor Council-AFL/CIO. Joe was formerly executive director of People for Fair Taxes in Washington. This will be Joe's third year on the Board of Directors. Last year he served as President and as Treasurer and Chair of the Financial Affairs Committee in 1979-80.

Jill Fleming '76

Lives in Seattle and recently earned a masters degree in Business Administration from the University of Wash-

ington, and is a financial reporting development officer, Controller's Division, at Sea-First National Bank's headquarters office. Former employers have been Safeco Life Insurance Company and Puget Sound Mutual Savings Bank. She is a member of the fiscal and management committee of Group Health Cooperative of Puget Sound and served as Vice President of Graduate Women in Management last year. Jill studied administrative theory and organizational behavior at Evergreen, served on the S&A Board, the Professional Leaves Committee, and was editor of the Cooper Point Journal. This will be Jill's third year on the Board of Directors, and she will serve as Treasurer. Jill has also served as Chair of the Program Committee.

Bill Freeburg '75

Lives in Seattle and is a computer programmer for Micoa, a Bellevue computer development and sales firm. Former employers have been C. Rhyne & Associates, Seattle First National Bank, and Western Data Corporation. Bill studied math and philosophy at Evergreen. This will be his third year on the Board.

Patricia Foster '76

Lives in Olympia and is a facilities manager for the Employment Security Department. She formerly worked for the Washington State Senate. Pat studied political economy at Evergreen and earned a masters degree in Public Administration from the University of Puget Sound in 1977. This will be her fourth year on the Board of Directors.

Julie Grant '79

Lives in Olympia and is project coordinator for the State Occupational Information Coordinating Committee. Previous employers were the Washington State Parks and Recreation Commission, the Council of College and University Presidents, and the Department of Personnel. Julie serves on the Board of Directors of the Olympia YWCA. While at Evergreen, she studied psychology and program administration and was a student career counselor in the Office of Career Planning and Placement. This will be Julie's second year on the Board of Directors, and she will serve as 1st Vice President. Last year she served as Chair of the Membership Committee.

J.P. Jones III '73

Lives in Olympia and is administrative assistant for the Senate Democratic Caucus. J.P. was recently elected chairman of the National Conference of State Legislatures, Leadership Staff Section. This will be J.P.'s second consecutive year on the Board of Directors. He also served as 1st Vice President on the Founding Board in 1978-79.

Doug King '77

Lives in Seattle where he works as a freelance consultant. He recently worked on the campaign for Bob Anderson for King County Executive and worked for the House Natural Resources Committee during last winter's session of the Washington State Legislature. This will be Doug's second year on the Board, where he has served as Chair of the Legislative Relations Committee.

Dave Rauh '79

Lives in Olympia and is employed with Op Magazine, a quarterly music magazine. Dave studied communications, photography, and graphic design at Evergreen and was active on the S&A Board and KAOS-FM. He serves on the board of directors of the Thurston-Mason Counties Crisis Clinic. This will be Dave's second year on the Board, and he will serve as 2nd Vice President, Chair of the Communications Committee, and editor of the publication you are reading, *AlumNews*.

Will Rice '76

Lives in Lacey and works as revenue coordinator for the Office of Financial Management. He was formerly employed as a senior fiscal analyst for the Washington State Research Council. Will is working toward a master's degree in public affairs at the University of Washington. Will studied economics at Evergreen and served as chairman of the Publications Board. This will be Will's second year on the Board.

Ralph Smith '77

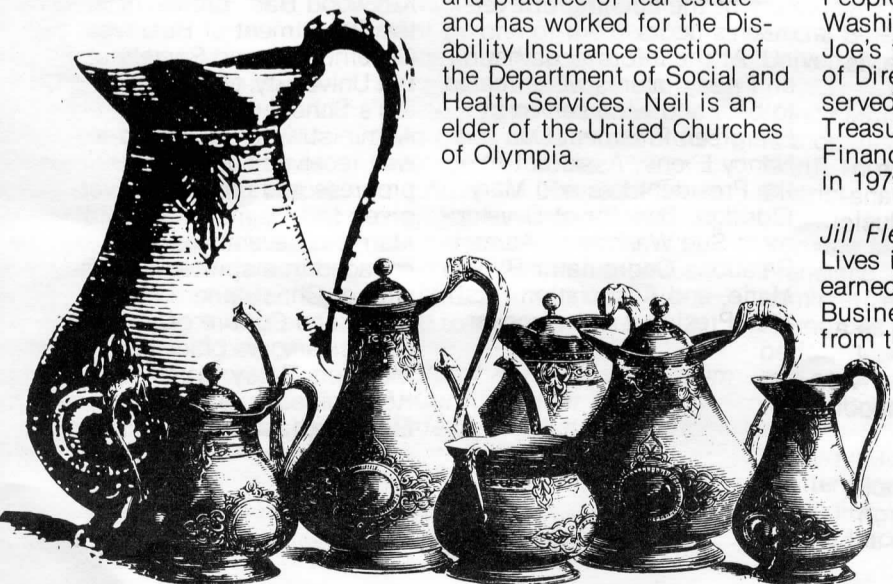
Lives in Olympia and is assistant executive secretary of the Washington State Governor's Committee on Employment of the Handicapped. Ralph studied English and political economy at Evergreen and worked for the Cooper Point Journal.

Kevin Thomas '79

Lives in Seattle and is a sales representative for Industrial Saws. He also sells discount waterbeds "on the side." Kevin studied business administration at Evergreen and was Student Activities Coordinator. This will be Kevin's second year on the Board. He chaired the Reunion '81 planning committee.

Janice Wood '76

Lives in Olympia and is a systems analyst for Washington State Senate. She has also worked for the Office of Financial Management and the Office of the Council of State College and University Presidents. Janice studied social sciences at Evergreen, was a member of the Campus Hearing Board, coordinator of the Information Center, and worked at KAOS-FM. This will be Janice's second year on the Board, and she will serve as Association President. Last year she served as Treasurer.



AlumNotes

James E. Adams '78, Muncie, IN, is a coordinator and teacher in environmental studies at Ball State University's Burriss Lab School and is studying towards a masters degree in education at Indiana University. Since leaving Evergreen, Jim has also worked for the forest service, park service, and an environmental consulting firm.

Julie L. Baker, '81, Olympia, works part-time at the Olympia Community Center playschool.

Tomas Balderston '80, Olympia, is a part-time natural history teacher and is self-employed as a carpenter specializing in solar remodeling.

Cecilia Barnett '75, Carson City, NV, received a masters degree in education and a masters degree in comparative literature from the University of Puget Sound. She is now planning to attend law school. She was awarded a "Women Helping Women" award in the media category by the Soroptimist International of South Lake Tahoe and has written spot announcements and a documentary for a Tacoma television channel.

Dan Bell '78, Portland, a janitor at Zinnton Plywood, is attending law school at Lewis and Clark College.

Richard Bender '74, West Chicago, is a registered nurse in a suburban Chicago hospital and also is selling computers to small businesses for Computer Science, Ltd., a business he shares with his brother.

Scott Benedict '80, Fort Collins, CO, is a cook and baker for Junction Eating Place. Scott is applying to the Denver Institute of Technology to study for an associates degree in architectural drafting.

Neil Bennett '75, Bellingham, WA, recently completed his masters degree in education at Western Washington University and plans to be a school counselor.

Kenneth Berger '76, Monroe, WA, owns and operates Calico Press and Paperworks, a printing business.

Cindy Bettinger '79, Tacoma, supervises Group Life staff and cares for 25 to 33 teenage girls at Faith Home.

Timothy Blair '80, Kirkland, WA, is a school bus driver for the Bellevue Public Schools. He also is involved in starting a school in Duvall to teach log house building and living off the land.

Jill Boniske '79, Asheville, NC, is attending New York University studying for a master of fine arts degree in cinema TV.

Clarissa Burt '79, Seattle, is attending the University of Washington and the University of Chicago next year in a Ph.D. program in language and literature.

Nancy Butterfield '79, Tacoma, is the assistant editor of *The Indian Voice*.

Carol Camerer '79, Ukiah, CA, is a teacher at Pariposa School.

Wendy Thornton Cameron '78, Norwich, NY, has received her MSRN degree from the Pace Graduate School of Nursing. She currently works as a hospital RN and is seeking certification as a family nurse practitioner.

Frances Carey '79, Eugene, OR, is a letter carrier for the U.S. Postal Service.

Candace Lane Carryer '80, Ashland, OR, is a naturalist in the Rogue Valley schools.

Janet Cleveland '78, Olympia, is a human resource development specialist for the Washington State Department of Employment Security.

Pamela Corwin '80, Olympia, is a counselor and volunteer coordinator for the Women's Shelter Program.

Wilford (Al) Curtice '79, Federal Way, WA, is a test engineer for Tacoma Boat-builders. He conducts and writes test proceedings on electronic systems for use on Coast Guard cutters.

Linda Davis '79, Tenino, WA, is an RN counselor/consultant. Her business consists of RN counseling, workshops, movement therapy, RN teaching and writing.

Ana deGive '78, Seattle, received her teaching credential from Pacific Oaks this June. She's working as a truck driver for the Seattle Times.

Robert Densmore '79, Kita Kyushu-shi, Japan, is an English teacher at the Tokyo Center for Language and Culture.

Susan Deuter '80, Olympia, is a residential designer/builder.

Justin Dick '79, Fillmore, UT, is a business manager for Western Geophysics. He handles all payroll ordering, billing and office work for a geophysical seismic crew of 30.

Fred Fay-Hiltner '79, Juneau, AK, is a wilderness guide for Alaska Discovery. Fred also is a mountaineering instructor for the University of Alaska at Juneau.

Rob Fellows '80, Seattle, is a part-time bus driver for Metro Transit.

Rob Fernau '81, Aiken, SC, is working for the University of Georgia as a research technician studying the ecology of swamp fish. Rob is also applying to U.G. and several other schools to work toward a masters degree in biology.

Jane Fisher '77, Washington, D.C., will receive her M.A. in art history from American University in December.

Lisa Fleming '81, Olympia, writes and edits publications in the Communications Section of the Washington State Department of Labor and Industries.

Margaret Hayes Forsyth '78, Putney, VT, is the coordinator for the Brattleboro Food Co-op.

Thomas Ghormley '78, Seattle, is the store manager for Dick's Drive-Ins.

Joy Goodrich '78, Port Ludlow, WA, manages a small business which includes secretarial service, tax service and printing.

Mark Gottlieb '77, Stanford, CA, has received two masters degrees in product design and engineering management from Stanford University.

Helen Gould '80, Beverly Hills, CA, is employed in the Guest Relations Department at NBC Studios.

James D. Green '80, Kent, WA, is a systems analyst with Informatics, Inc., in Seattle.

Michael Griggs '81, Olympia, is working on a grant for a documentary film on fishing in Alaska.

Diane Grise '79, Seattle, is a bookkeeper for Fiorin Sports. She's been accepted for the M.S.W. program at the University of Washington.

Shawn Gutshall '78, Santa Barbara, CA, is an upholstery seamstress at Gutshall's Studio, and has applied to Antioch for graduate work in counseling/psychology.

Steven Hadley '80, Seattle, is a house parent at the Shelter Runaway Center.

Irma Jean Harris '78, Hoodspport, WA, is the office manager for the Shelton office of Lumberman's of Washington, Inc. She audits invoices and job closings, posts job costs, bills and collects from customers, performs month-end closing reports and audits.

Martha Hunting '79, Seattle, is a volunteer exhibit designer for City Fair, Metrocenter, YMCA Downtown Seattle. She is working toward her master of architecture degree at the University of Washington.

Glenn Huntley '78, South Bend, WA is managing editor for *Willapa Harbor Herald*.

Judy Hyslop '80, Medford, NJ, is public relations associate for United Way of Burlington County, NJ.

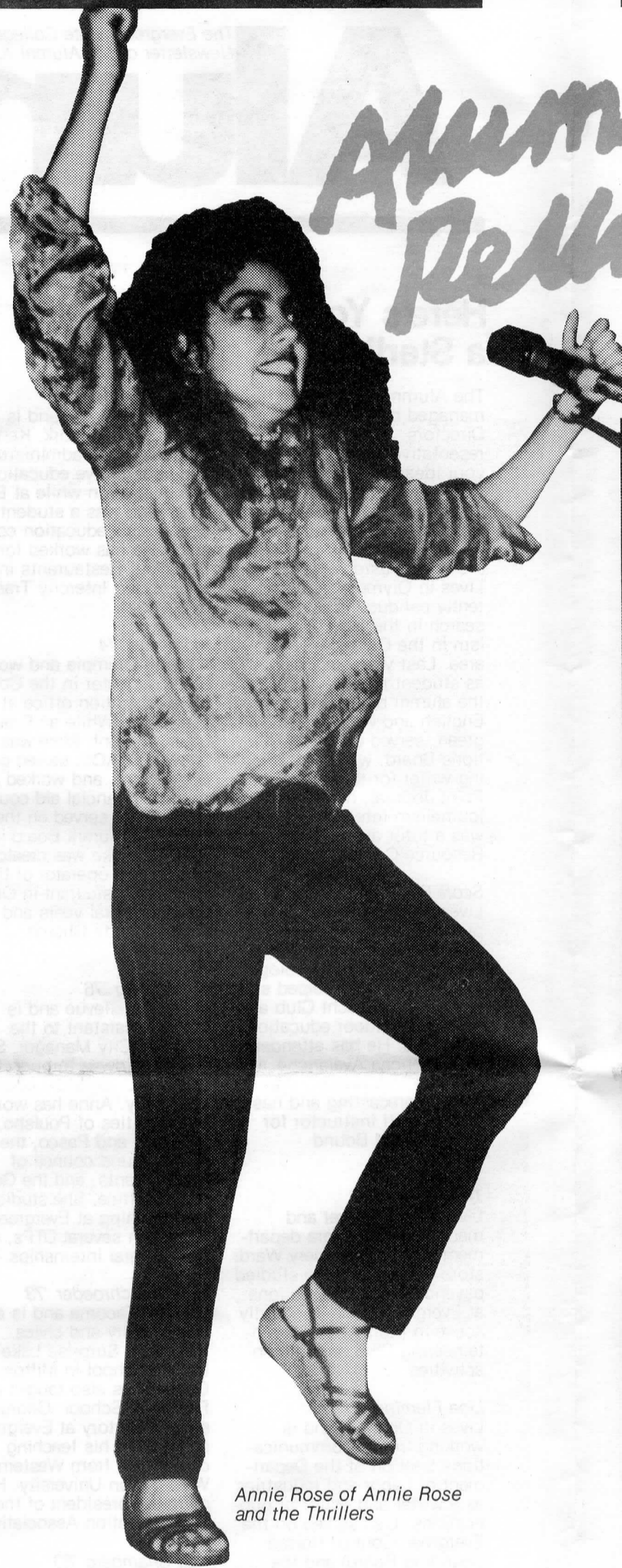
Matthew Jacobsen '81, Olympia, is a waiter at Cracker's Restaurant.

Peter Jekel '80, Olympia, is a self-employed general contractor.

Darrel Johansen '74, San Francisco, is general manager of Serge Modular Music Systems.

Scott Kauffman '80, San Francisco, is employed as a liquor store manager/legal clerk while attending the New College of California School of Law.

Karen Keocke '78, Olympia, is employed by Pittsburgh Testing Laboratories as an inspector/technician.



Annie Rose of Annie Rose and the Thrillers

Alumni Reunion '81

Several months of planning culminated on September 12 with a gala celebration by alumni of the tenth anniversary of the opening of Evergreen's doors.

At the informal gathering on Friday, alums were treated to beer and wine served by Evergreen President Dan and Nancy Evans, Assistant to the President Les and Mary Eldridge, Director of Development Sue Washburn, Alumni Relations Coordinator Bonnie Marie, and Association First Vice President Bob Crocker.

Saturday morning's activities provided a scintillating and thought-provoking educational experience. David Kirkwood Hart, professor in the Department of Business, Government, and Society at the University of Washington's School of Business Administration, delivered a well received address on progress and potential. Evergreen faculty member David Marr and several alums engaged in a spirited discussion of Christopher Lasch's book, *The Culture of Narcissism*, and faculty members Betsy Diffendahl, Ken Dolbeare, and Larry Eickstaedt led a panel dis-

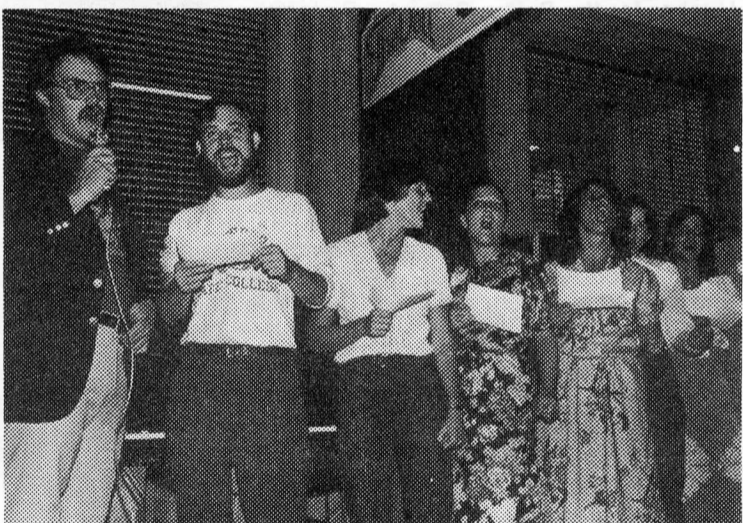
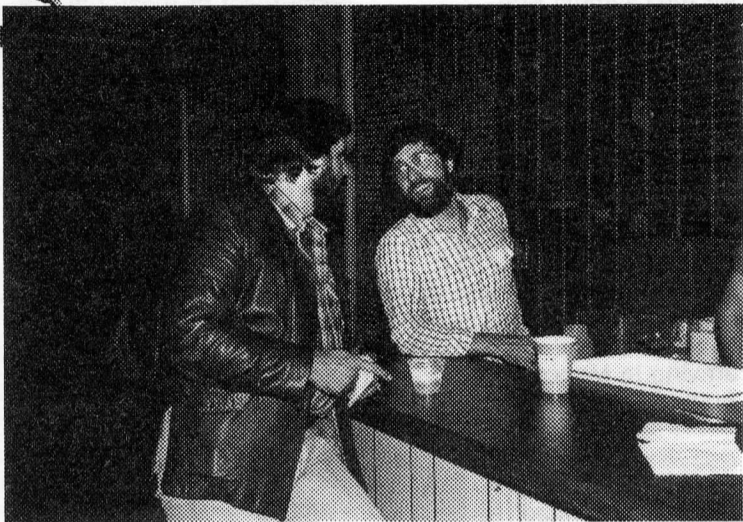
Reunion

AlumNotes

George Schroeder (left) and Mike Hall (right) recalling Evergreen's early years.

Outgoing president Joe Dear receives traditional bottle of sherry from new president Janice Wood.

Bob Crocker, Doug King, Leslie Owen, Bonnie Marie, Julie Grant, Jill Fleming, and Christina Koons performing a stirring rendition of the Geoduck Fight Song.



discussion on progress from the perspectives of their academic disciplines in applied social science, public administration and politics, and natural sciences.

The annual business meeting was devoted primarily to election of officers and board members for the 1981-82 year (see feature story on Board of Directors, this issue).

Festivities continued Saturday afternoon, aided by servings of the now-famous Geoduck Sludge. A delectable dinner banquet, complete with mouthwatering alumni-style barbecued chicken, provided ample time for telling "Greener" jokes, present-

ing appreciation awards, and singing the Geoduck Fight Song and the Geoduck Blues.

The two-day gathering culminated with entertainment by one of the greatest bands ever to appear on campus, Annie Rose and the Thrillers, who lured even hard-core non-dancers onto their feet for hours.

All in all, Reunion '81 provided fun and stimulation for everyone. Plans for Reunion '82 next September are already underway. We hope to see you there.

Photo of Annie Rose by alum Al Curtice. Other photos by student Phil Watness.

Bonnita Kinion '79, Redondo, WA, passed the CPA exam in November, 1980.

Ellen Kissman '80, Seattle, is a clinical services assistant for Planned Parenthood of Seattle/King County.

Cindy (White) Knudsen '79, Olympia, is a computer operator/student at Olympia Technical Community College where she's working toward an A.T.A. degree in computer programming.

Kathryn Knutson '79, Seattle, is a teacher at Montlake Community Day School, and has just completed a year of graduate studies toward her California teacher credential at The Little School, Bellevue, WA.

Elisabeth Koch '79, Cincinnati, OH, is an accountant/analyst at Chemicals, Inc.

Karen Kochsmeier '80, Portland OR, is helping a graduate school student with her field work for a masters degree in geology. Karen also breaks horses in Central Oregon.

Rebecca Krall '76, Sunnyside, NY, is attending New York University this fall to obtain her M.P.A. in health administration.

James Kramer '78, Olympia, is an environmental planner with Thurston Regional Planning Council.

Neill Kramer '80, Brooklyn, NY, is attending the University of Oregon to obtain an M.S. in instructional technology.

Robyn Lipner '78, Oakland, CA, is studying towards a Ph.D. in American History at the University of California-Berkeley.

Barbara Lyon '78, Arlington, VA, is a promotion manager for Petroleum Translation Publishing Services, Inc. She is also attending Georgetown University studying for a masters degree in Arab studies and political science. Barbara will be employed next spring in a large bank in the Middle East as an art portfolio investor.

Andrew MacFarland '78, Moscow, ID, is attending the University of Idaho to earn a Ph.D. in nuclear physics.

Paul Mastrangelo '80, Rome, NY, works part-time in the marketing department of Syracuse Stage, a professional regional theater, and is studying toward a Ph.D. in Social Sciences at Syracuse University.

Nancy Moffatt '80, Olympia, is a district planner for the North Thurston School District.

Suzanne Mulligan '78, San Francisco, is a program administrator for The Human Resources Group, where she performs supervisory training and case handling in the area of employee assistance.

Timothy Murphy '78, Seattle, is attending the UW School of Medicine. He will study in Ireland through the summer.

Wendy Murvhill '80, Seattle, is a laboratory assistant for Pathologist's Central Laboratory. She assists in the medical lab, draws blood, centrifuges specimens, does urinalysis, makes slides, etc. Wendy plans to apply to a professional program in medical technology.

Kathie McCarthy '79, Olympia, a feminist movement specialist, teaches a variety of dance classes.

Richard McClure, Jr. '79, Packwood, WA, is an archaeologist for Gifford-Pinchot National Forest. He is on leave of absence from WSU to complete an M.A. thesis in anthropology.

Tamara McCracken '80, Wayland, MA, is attending Brandeis University to obtain her Ph.D. in anthropology.

Dan McDonald '81, began masters degree studies this fall in Harvard University's City and Regional Planning Program.

Lee Scott McDonald '74, Charlestown, MA, makes paper by hand and conducts lectures and workshops on the craft.

Rick McGarvey '78, Springfield, OR, is a graduate teaching fellow in the Eugene Planetarium while pursuing a Ph.D. in physics at the University of Oregon.

Roger McIntosh '79, Yelm, WA, is a detention attendant with Thurston County Youth Service Center.

Tom McLaughlin '77, Portland, OR, is self-employed as a house painter.

Shannon Nelson '79, Olympia, is employed by Employment Security as an interviewer.

Paul Nicholson '80, Seattle, is attending the University of Washington to obtain his Ph.D. in linguistics.

Virginia (Ring) Nilsen '77, Eugene, OR, and husband Christopher are proud parents of Paige Emma Nilsen, born at home on June 8. Ginny assists with her husband's business and is studying the Bible and the writings of Mary Baker Eddy.

Fred Nollan '78, Salt Lake City, UT, is a waiter at Annabell's Restaurant and a technical editor for Libra Programming. Fred received his masters degree in English from the University of Utah this past June.

Edith Wallace Owen '79, Tacoma, is director of the Orchard Park Convalescent Center, a 140-bed facility.

David Pavelcheck '80, Olympia, is the Washington State Dept. of Social and Health Services legislative liaison to Washington, D.C.

Timothy Pearce '79, Olympia, is a biological technician for the U.S. Fish and Wildlife Service.

Linda Pennington '80, Seattle, is an account assistant in advertising and public relations for Evans/Pacific, Inc.

Mary Petersen '79, Vancouver, WA, is a caseworker for the Department of Social and Health Services.

Kenneth Phillipson '80, Olympia, works for the Forest Service as an assistant foreman.

Ellen Pickall '78, Hoquiam, WA, is a piano teacher, organist and choir director.

Sandra Piechocki '79, Baltimore, MD, is employed by a radio station as a news reporter for a small coastal town.

Nancy Truitt Pierce '79, Seattle, is the director of the Displaced Homemakers Program at South Seattle Community College.

Margaret Plummer '80, Underhill, NY, is a cook in an alcoholic treatment center and is establishing a small farm.

John Pohl '78, Charleston, IL, is pursuing his M.S.Ed. in guidance and counseling at Eastern Illinois University.

Candice Poletti '78, Englewood, CA, is a clinical dietician at the Lutheran Medical Center.

Lisa Randlett '78, Olympia, is a land use planner for Grays Harbor County and administers the zoning subdivision, and shorelines management program.

Gregory Renault '73, Tacoma, is a crisis counselor at the Kitsap Youth Homes, Tacoma Crisis Residential Center and a political science instructor for Centralia College.

Kimberley Richardson '79, Seattle, is a program coordinator and river guide for Zig Zag River Runners. She is also attending the University of Washington's Japanese extension language program to prepare for a one-year visit to Japan in 1982.

Douglas Roberts '79, Olympia, is a milling supervisor for Richard Clark Logging.

Katie Rodgers '79, Olympia, is an associate office manager for Rodgers & Associates Insurance Co.

Julie Roswall '80, Olympia, is the training project coordinator for KAOS, and is applying to graduate schools for work in communications/urban and regional planning.

Katherine Rutherford '78, Palo Alto, CA, is attending the Georgetown University School of Medicine.

Maureen Schilling '80, Port Angeles, WA, is an accountant for ITT Rayonier.

Doug Scrima '78, Tenino, WA, is an admissions counselor at Evergreen.

Loretta Sharpe '78, Trout Lake, WA, a foreman with the Mt. Adams Fire Suppression Crew, is transferring to the Mt. St. Helens Red Zone Helitack Crew.

Dial-a-Grad

The 1981-82 alumni directory, which includes all grads through Summer Quarter, 1980, is ready for you, thanks in part to the following Evergreeners who advertised in this year's edition. We gratefully acknowledge:

Patricia Bliss, CPA
Olympia, WA

Robert Fromm
Dragon Designs
Olympia, WA

John Gerecht
Free Lance Photography
Olympia, WA

Willie Jackson
Action Research Associates
Tacoma, WA

Bill Morris
West Realty
Shelton, WA

Dave Rauh
Op Magazine
Olympia, WA

Steve Richter
Action Research Associates
Tacoma, WA

Rick Ricks
Attorney at Law
Washington, DC

Neil Shamberg
Van Dorm Realty, Inc.
Olympia, WA

Jim Stonecipher
Rogue Enterprises
Olympia, WA

Connie Strobe
Graphic Design
Seattle, WA

Al Zimmerman
Action Research Associates
Tacoma, WA

Special thanks also to Mark Clemens of the graphics staff for his improved format suggestions and cover design; to Bonnie Marie, Alumni Coordinator, for overall coordination of the project, and to Bill Parsons, Alumni Office student assistant, for paste-up work.

AlumNotes continued from previous page

Deborah Shawver '75, Olympia, was recently named director of public relations at St. Peter Hospital. Since leaving Evergreen, Debbie has served as public relations director for the Point No Point Treaty Council in Kingston, Washington, the Northwest Indian Fisheries Commission in Olympia, and the Arabian Horse Registry of America in Denver, Colorado.

Barbara Short '78, Olympia, is a firefighter and paramedic for the Olympia Fire Department.

Richard Shory '80, Port Townsend, WA, is on "The Walk to Moscow," a peace walk which started at the Trident Nuclear Submarine Base on March 1. The group of about 20 people plans to arrive in Washington, D.C., about Thanksgiving and will continue their trek from the coast of Ireland in hopes of arriving in Moscow in August, 1982.

Robynne Snow '74, Salt Lake City, UT, and husband Peter Viavant celebrated the birth of their second son, Noah Bryce on August 15.

David Sokal '80, Seattle, is a part-time janitor for American Building Maintenance. He is publishing a 32-page art magazine and producing a one-hour show for KRAB radio.

Katherine Sokolik '80, Olympia, works full-time in a marine electrician apprenticeship program at Tacoma Boatbuilding and attends classes at Bates Vocational.

Cecile Kalkwarf Sparling '80, Sultan, WA, is a substitute teacher for the Sultan School District.

Janet Spath '78, Mesa, WA, is a gallery coordinator and works with her husband on a farm.

Helen Spears '75, Olympia, currently is employed by the Commission for the Blind. She worked six years in Evergreen's Business Office.

Peter Speek '80, Olympia, is an account executive for Pacific Communications, which places advertising on cable systems in the Northwest.

Joan Stamm '78, Seattle, teaches art and plans recreation activities for children at Neighborhood House. She is applying for teacher certification at The Little School, Bellevue, Washington.

Charlie Stephens '78, Olympia, is a biologist for Fisheries Research Service, a consulting firm.

Peter Stevens '79, Portland, OR, a software engineer for Tektronix, builds micro-processor-based raster graphics terminals.

David Stevenson '78, Claremont, CA, teaches American literature, and coaches cross-country and track at Damien High School.

Scott Stilson '80, a self-employed game designer, develops military, political, economic and historical simulations.

Linda Stone '77, Marysville, WA, is a second grade teacher for the Marysville School District. She has begun graduate coursework at the University of Minnesota.

Merideth Taylor '76, Denver, CO, has been named a visiting assistant professor in the department of theater at the University of Denver.

Kathleen Theoe '79, Puyallup, WA, is the marketing director for the McChord Credit Union.

Ann Thomas '78, Santa Rosa, CA, is a Peace Corps math teacher at Enkaba Secondary School in Swaziland, Africa.

Margaret Thompson '78, San Diego, CA, is an administrative secretary for Gray, Cary, Ames & Frye.

Jamie Trautman '78, Corvallis, OR, is a research assistant in oceanography at Oregon State University.

Dean True '79, Olympia, is a dispatcher for St. Peter Hospital.

Martha Turner '79, Shelton, WA, is an assistant planner for the Mason Regional Planning Council.

Martin Veveris '80, Boulder, CO, is studying for a masters degree in Buddhist and western psychology at the Naropa Institute.

Andrea Wagner '80, Seattle, is a business manager for On the Boards, Washington Hall Performance Gallery.

Richard Weeks '78, Aberdeen, WA, is an industrial relations supervisor for ITT Rayonier. He received an M.B.A. from City College in December, 1980.

Patrick Williams '79, New York City, is attending Columbia University for his Ph.D. in geology.

Diane Winslow '78, Seattle, manages an apartment house and is starting a decorating business. She designs and builds children's furniture, paints interiors, exteriors, and wall graphics, and performs general carpentry work.

Nina Wolsk '78, Seattle, received her M.Ed. in special education from the University of Washington in June, 1980.

Martha Woodhull '78, Seattle, is working with pre-school children at the Jewish Community Center. She received a degree in music from Cornish Institute this year.

Robert Woodworth '80, Tacoma, is a real-estate appraiser for Seattle-Tacoma Appraisal.

Teresa Wright '77, Salem, OR, graduated from Willamette University Law School in May and is working as an attorney for the Oregon School Employees Association.

To order your directory, send a check or money order for \$3, payable to TESC Alumni Directory, to Alumni Office, The Evergreen State College, Olympia, WA 98505. And, remember, if you join the Alumni Association (\$7.50), you get a complimentary directory. Such a deal!

Nuptials

Doug King '77 and former Evergreen student Robin Stanton on September 19 in Seattle.

Elizabeth Boyle '75 and Dwight Nickerson on September 12, in Portland.

Martha West '80 and Dale Favier '80 on September 12 in Olympia.

Put a Shirt on Your Back

We have a new supply of Association T-shirts, the latest in alumni fashion. Now in demand by all who seek to become the best-dressed alumni, the shirts are available in Geoduck green with white lettering (standard style) or in white with green lettering (women's French-cut style).

To order, simply send a check or money order payable to TESC Alumni Association, for \$6 for the standard style and \$8 for the French-cut style, to Alumni Office, The Evergreen State College, Olympia, WA 98505. Be sure to state the size you need: small, medium, large, extra large.

Continued and new financial support of the Association by alums "will help us maintain existing service and implement new ones for the benefit of both Evergreen and its graduates," adds Marie. "So, due it now. Become an Association member." Here's how:

Fill out the coupon above. Send it along with a check or money order for \$7.50 (per person) made payable to TESC Alumni Association to Alumni Office, The Evergreen State College, Olympia, WA 98505.

We'll send you a receipt, a membership card, and a free directory (a \$3 value).

Remember, those of you in the Class of '81 (December, 1980, through September, 1981, grads) have complimentary Association membership until August 31, 1982. If you would like a membership card, drop a line to the Alumni Office.

I Want to Join!

Name _____

Address _____

Check if new address _____

Home phone _____ Work phone _____

Name at Evergreen if different from above _____

Here's what's new with me (job, school, marriage, babies, etc.) _____

I'm willing to be a contact for an alumni chapter in my area.

I'm willing to help organize alumni activities in my area.

Join the Geoduck Brigade

It's that time again—Association "dues are due" for the '81-'82 academic year.

More than 200 alumni paid their Association memberships last year, adding nearly \$1,600 to our coffers. These funds enabled alumni planners to be "much more creative in our programming" and allowed us to give members reduced rates on Association activities, discounts on merchandize, and a free alumni directory, says Alumni Coordinator Bonnie Marie.

This year the Association hopes sufficient funds will be available to publish a monthly newsletter for members, issue a membership card, and provide support to alumni chapters around the country.

Purpose of the Alumni Association, according to by-laws, is "to provide an avenue for the pursuit of members' mutual interests, and to provide support to the program and philosophies of The Evergreen State College."

Marie says the Association "has worked hard to meet these goals since its formal organization in the fall of 1978. We've helped recruit students, negotiated reduced rates for alumni at the Recreation Center and in the Leisure Education program, provided testimony before legislative committees, assisted in the College's public relations and legislative efforts, and planned and executed social, recreational, and intellectual events for alumni."

Budget Cuts Will Force Enrollment Reductions

Classes had scarcely begun this fall when Evergreen's Board of Trustees was forced to approve a 10.1 percent state-ordered budget cut that may close Evergreen's doors to an estimated 585 students during the 1981-83 biennium.

The cuts were ordered by Washington Governor John Spellman by October 1 in the face of an unprecedented financial crisis that left state coffers with deficits ranging from 600 million to more than one billion dollars.

The impact on Evergreen, which just began its eleventh academic year with the highest full-time equivalent student enrollment in history, is, says President Dan Evans, "simply devastating."

"After three years of meeting legislatively mandated growth requirements, we will suddenly have to cut back sharply on our curriculum and on our ability to serve students," he said. "We will have to drastically reduce services to both students and the community, and to curtail academic support at all levels."

Evergreen's share of the state budget cut amounts to nearly three million dollars: \$2,693,000 from the biennial budget, plus an additional \$305,000 which had to be carved out to cover shortfalls in state-mandated salary increases.

Initial efforts to slash the budget extracted more than one million dollars in "lump sum" reductions from such areas as 1982 summer school, 1982-83 masters degree program in environmental studies (see related story, page 1), research, library resources, utilities, campus reserves, and institutional expense budgets.

Those reductions were followed by a 7.4 percent cut across the college for all units.

If the 10.1 percent reduction is not relieved by action at the special session of the legislature this month, Evergreen will cut its enrollment by 490 undergraduates and 85 graduate students during

the current biennium. It will postpone beginning the masters degree program in environmental studies until at least the fall of 1983. And, it will attempt to provide a sharply reduced summer school program on a "self-supporting basis."

Evergreen will lose more than 20 faculty positions in the two-year period, including the majority of part-time (adjunct) faculty posts, nearly all the one-year visiting appointments, and possibly even some regular faculty jobs. The college will also lose more than 50 staff positions, including full-time, part-time, temporary and institutionally-funded student jobs.

These losses will have clear effects on the quality and variety of college services, according to the president.

"The enrollment reduction cuts opportunities for new high school and community college transfer students by 14 percent next year," Evans said. "It severely cuts the number of part-time classes we'll be able to offer, especially for adults in our immediate service area, and it may significantly reduce free access to the college for thousands of southwest Washington citizens."

As a result, Evans explained, fewer community residents will be able to use the library, which has more than 5,000 off-campus borrowers. The Computer Service Center will have to eliminate its basic computer instruction programs and free access to its equipment by high school students. The College Recreation Center will have to impose higher use fees, and Evergreen's athletic programs will be curtailed.

In addition, Evergreen's ability to maintain and repair its facilities and equipment will be sorely restricted and its sponsorship of an array of cultural and educational activities will be severely cut—or completely eliminated.

If the college is forced to live within "these crippling conditions for any extended period of time," Evans said, "we'll have to undergo a complete reorganization and scale down our entire operation."

Evergreen's sister institutions throughout the state are in the same fiscal swamp. Their combined cuts could eliminate at least half of next year's freshman class and "strike a body blow to the high school juniors and seniors of today," Evans said.

"These necessary reductions in faculty and support will curtail opportunities for current students in all our state-supported institutions and impair the quality of our effort to a degree that will take years to restore," Evans added.

Exercising keen recall of the 1981 legislative session, Evans pointed out that the state's lawmakers "approved a sharp increase in tuition with the explicit promise of retaining support levels in higher education."

"I believe," he stressed, "it would present a gross breach of faith to so soon forget those promises."

Calling for tax increases so the state can return at least some of the monies recaptured this fall, Evans argued that "in this time of dollar manipulation, it's important for us all to remember the goals and mission of our state government."

"The enormous success of our higher education system has unquestionably helped to make Washington a state whose work force is highly productive, whose citizens have among the highest income of any in the nation, and whose quality of life is among the best," the former three-term governor pointed out.

"In this time of financial crisis," he declared, "let us not lose courage nor forget that investment has provided the benefits we now enjoy."

David Gallagher: Evergreen Artist Remembered

David Gallagher was first of all an artist—one who applied his concept of design to his artistic creations, to his classroom teaching and to his everyday life.

The Evergreen faculty artist, who died suddenly of a heart attack last August at the age of 44, expressed his life through all of his work and so completely interwove his lifestyle with his creativity that the two became the same.

A native of western Washington, David's creations most often arose from wood, a natural medium for the man who lived and often worked in the outdoors. Best known for his huge commissioned sculptures like the one that adorns the campus of Green River Community College, David explored his creativity through small sculptures, paintings, photography and ceramics. He also expressed it daily in his teachings at Evergreen.

First hired in 1975 as a visiting artist, David became a full-time, regular member

kinds of weather, sometimes for abnormally long hours.

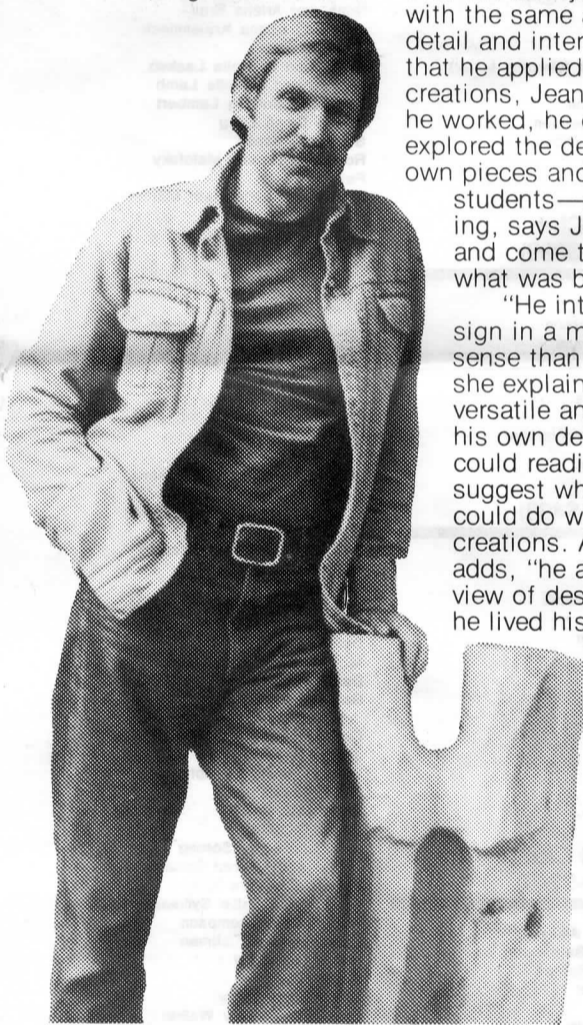
Then he, his wife Pat and their sons went to the World's Fair in Montreal in 1967. "David's world suddenly opened," Pat remembers. "He was fascinated with all the art and architecture there."

That fascination followed him home and he soon enrolled in part-time study at Everett Community College, but continued his job work with the phone company.

"He started out wanting to be a landscape architect," Pat says, "but a love of sculpture quickly emerged and became his dominant interest." He continued his schooling in California where he completed an associate of arts degree from Santa Rosa Community College. He returned to his home state and earned a bachelor's degree in art from Central Washington University and a master of fine arts from the University of Washington.

David then tackled his first full-time job as a teacher with the same attention to detail and interest in design that he applied to his own creations, Jean observes. As he worked, he constantly explored the design of his own pieces and those of his students—always seeking, says Jean, to clarify and come to terms with what was being created.

"He interpreted design in a much broader sense than most artists," she explains. "He was so versatile and flexible in his own design work he could readily see and suggest what others could do with their creations. And," she adds, "he applied his view of design to the way he lived his life and con-



of the faculty in 1978, bringing with him teaching experience as an assistant professor at the University of Denver and as an instructor at the University of Washington.

Along with years of hard-won education, the tall, ruggedly handsome Irishman carried onto Evergreen's campus what faculty colleague Jean Mandeberg described as a "common sense approach to teaching—and to life."

"David was no ivory tower artist," she says, "he knew what hard work in the everyday world was really like."

David discovered art and teaching a bit later in life than most do. After graduation from Skykomish, Washington High School he went to work for the telephone company. There he spent 13 years as a lineman, installing cables and telephones, solving practical problems in all

stantly worked to fully integrate his life with his art."

That integration drew Pat and their three sons into his work room. "When David was completing big wood sculptures, we'd be right down there with him, sanding, chiseling and sometimes even helping him install the final piece," she recalls.

David's pieces, which earned him a number of honors including the 1976 Purchase Award from the Montana Institute of the Arts, will be featured in a retrospective one-man show opening on campus in January, and in two Seattle exhibits scheduled later this year.

Several pieces also will be purchased by the college for the permanent Evergreen Collection. Donations for those purchases may be sent to the David Gallagher Memorial Fund, c/o The Evergreen Foundation, Olympia, WA 98505.

Geoducks Mussel into Intercollegiate Sports

Geoducks are digging their way onto area sport pages in an expanded intercollegiate program that's carried the bivalves into men's and women's soccer, cross country running, swimming, sailing and tennis.

Athletic Director Jan Lambert reports more than 100 Evergreen students are currently carrying the Geoduck banner as the intercollegiate program enters its third year with the aid of six part-time coaches and newly named assistant sports director Sandy Butler.

By mid-season the Geoduck women's soccer team had musselled its way to an impressive 8-2 record under the direction of former Evergreen athlete Jacques Zimicki. The male booters had kicked their way to a 2-8 win-loss tally, coached by veteran Olympia soccer director Willie Lippman.

Cross country runners began their first season this fall with three invitational matches under the guidance

of long-distance runner Larry Nielson, and tennis players are awaiting their second season with coach Alice Parsons.

While most of the clams are slogging their way through land-based activities, two Geoduck teams are gearing up for aquatic competition.

Newly hired sailing coach Lewis Powers of Olympia has more than 24 students turning out for the first season of intercollegiate sailing. The new mariners are devoting their Saturdays to mastering the just completed fleet of six Alpha I sailboats, which they hope to enter into sailing regattas later this year.

On campus, former long-time Olympia High School swim coach Don Martin is beginning practices for more than 30 men and women swimmers, who'll dive into their third season in December.

Supporting the mighty bivalves this fall are members of the newly organized athletic booster club, the Clambackers.

More than 40 supporters gathered at the home of President and Mrs. Dan Evans in September to launch the booster group, which is now drafting its official constitution and bylaws and seeking to select its first slate of officers.

"By the first of the year we hope to have the 'backers fully operational," Lambert noted. "We'll then be able to concentrate on ways to expand our membership in the Olympia community, to promote financial support of our athletic program, and to increase attendance at our games and matches."

Persons interested in joining the Clambackers are invited to contact Lambert through the Recreation Center. They're also encouraged to get their copy of the new stickers now adorning Evergreen bumpers. They say simply: "Geoduck for State Bird." Get your sticker for \$1.50 through the Alumni office.

1980-81 Contributions Top \$100,000 Mark

Highest Total Ever

The Evergreen Foundation received \$106,743 in private gifts and grants from over 1,000 alumni, parents, friends, corporations, foundations and other organizations. Of that amount, over \$57,000 was unrestricted for use in the areas of greatest need on the campus. This record gift income total well exceeded this year's \$90,000 goal.

Vital Unrestricted Support

Private unrestricted gifts made possible 40 full-tuition scholarships for outstanding new students. Programs and projects also funded included the Evergreen Expressions Performing Arts Series, the National Summer Institute for College Teachers, the Presi-

dent's Contingency Fund, publications for re-entry students, Earth Fair '81, and a new campus literary journal.

Designated Gifts Enhance Evergreen

Almost \$50,000 was received in restricted gifts designated for projects, programs and needs such as the Unsoeld Fund, intercollegiate athletics, the Seawulff, the National Conference on Alternative Higher Education in the '80s', the student-produced record album "Collaborations II," and the BRIDGES summer outdoor/environmental education program for teenagers. In addition, funds were received for such special financial aid awards as the Haas Foundation Scholar-

ship, the Carleton Morris Cooley Scholarship, and the Soroptomist Loan Fund.

President's Club Provides Leadership

The President's Club grew to 20 members who provided almost \$30,000 in restricted and unrestricted support. This group, which meets annually over dinner at the President's home, makes possible significant scholarships, President's Symposium and other special project support.

Alumni Giving Grows

Almost 300 Evergreen graduates contributed over \$7,000 to the 1980-81 Annual Fund. This record total is a strong indicator of alumni loyalty and support of Evergreen today.

Thankyou!

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Ruth Khaw

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Hal Wolf

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Daniel and Nancy Evans
Albert MacLeod
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Dennis and Joan Peterson
Janet and Orin Smith
Norman and Nancy Woodriddle

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Evergreen Expressions Series Headlines ReView Calendar

November

17 Free lecture on "The Underground Homes of Tunisia," by Evergreen faculty physicist Dr. Robert Cole, 8 p.m., Recital Hall, Communications Building.

21 Tenth annual Turkey Trot, a 2.7-mile road race to win your Thanksgiving dinner. Registration begins at 10 a.m. in front of the Evans Library and costs \$4.

26-27 Thanksgiving Holiday, campus closed.

December

1 The Oregon Shakespearean Festival sends a traveling team of performers to Olympia to stage a potpourri of the great bard's writings, plus selections from other classical and contemporary works, 8 p.m., Recital Hall, Communications Building. This Evergreen Expressions event costs \$4 general or \$2.50 for students and senior citizens.

3-6, 10-13 "Stop the World—I Want To Get Off," the musical that has captured the hearts of theatergoers since it opened in London two decades ago, plays for ten performances under the direction of Evergreen's Ruth Palmerlee. 8 p.m. Thursday through Sunday and 3 p.m. Sunday matinees. Tickets for this Evergreen Expressions event

are \$4 general, \$2.50 for students and senior citizens.

6 Jazz bassist Red Kelly and Evergreen pianist Don Chan combine talents with musical guest artists for "First Sundays" concert, 7:30-9:30 p.m., Recital Hall, Communications Building. \$2.50.

16 Last day of Fall Quarter, 1981
24-25 Campus closed for Christmas holidays.

January

4 Winter Quarter classes begin.
20

Meredith Monk and Vocal Ensemble. . . Widely regarded as one of America's most versatile artists, Monk pioneers new art forms using sound, movement and theater for what critics call "one of the most extraordinary experiences." Her "astonishing" work, which has earned her the title of "the most significant intermedia artist of our time," appears at 8 p.m. in the Experimental Theater of the Communications Building as part of the Evergreen Expressions Performing Arts series. . . Tickets: \$5 general, \$4 students and senior citizens.

February

3 Doc Watson, one of the preeminent folk artists of our time, brings his popular band to town for an evening ranging from bluegrass to country, gospel to blues in a versatile style that combines dazzling speed and technique on guitar with his exceptional singing style. . . This Evergreen Expressions show begins at 8 p.m. in the Evans Library and costs \$7 general or \$5 for students and senior citizens.

April

8 Laurie Anderson, a powerful creator and performer, jolts her audience with elegant mosaics, fusing film, slides, talking-singing, rock-based music and gently ironic stories. She'll stage her "revolt against elitism," at 8 p.m. in the Experimental Theater of the Communications Building. . . Tickets: \$5 general; \$4 students and senior citizens.

24 ODETTA, America's first lady of folk music, returns to Olympia with her own special brand of spirituals, blues, folk and children's songs. Her Evergreen Expressions series show will be staged at 8 p.m. in the Olympic Theater in downtown Olympia as a benefit for the city's soon-to-be renovated Performing Arts Center. . . Patron tickets: \$15; others \$5.

May

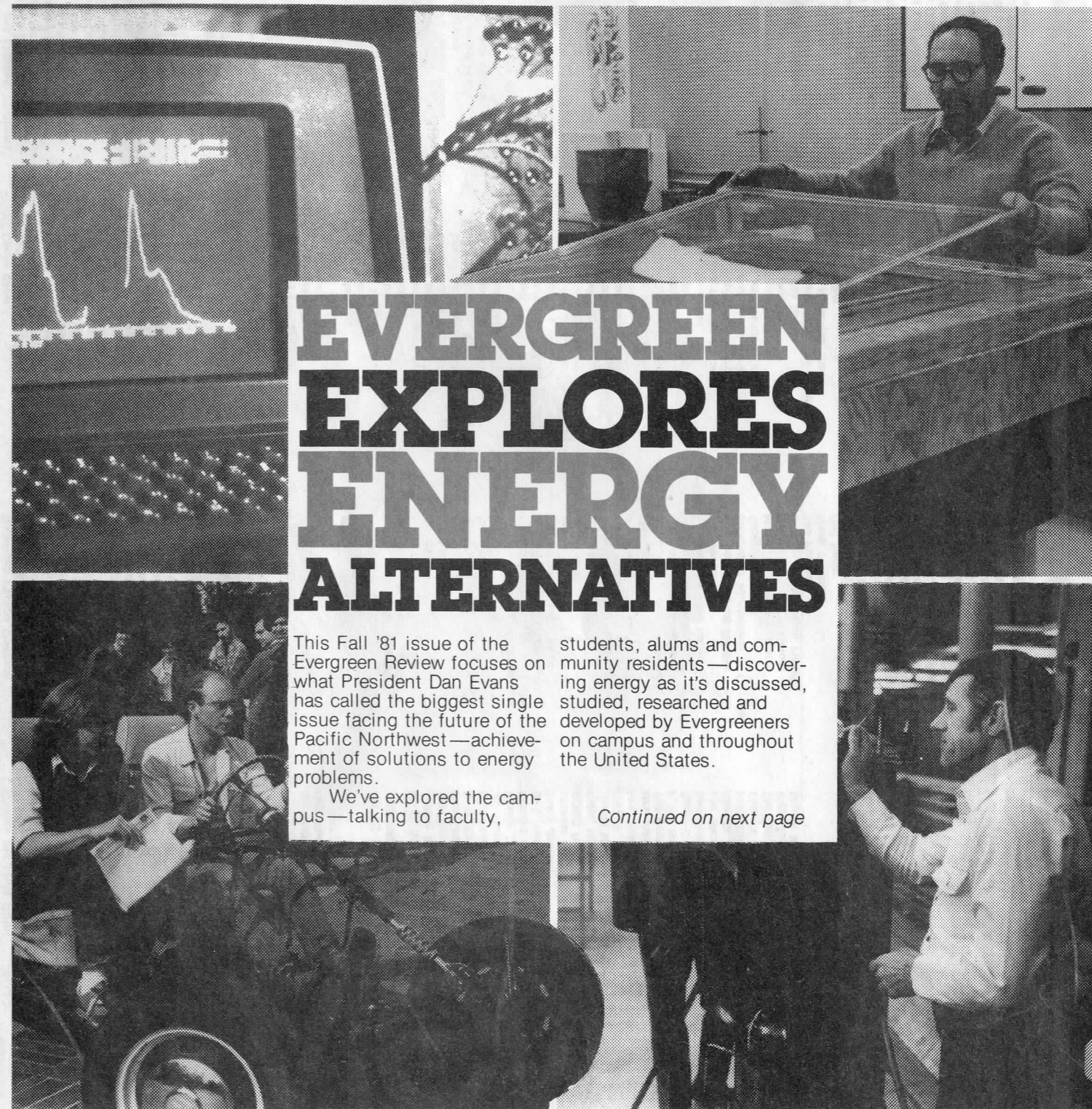
19 Eiko and Koma, a remarkable Japanese dance team which successfully blends Eastern dramatic traditions with Western movements to create exciting visual pictures, performs in final Evergreen Expressions series show at 8 p.m. in the Recital Hall of the Communications Building. . . Tickets: \$5 general, \$4 students and senior citizens.

Jones Waxes Eloquent on Evergreen

The Evergreen Experiment, the recently-released book by faculty member Dr. Richard Jones, is now available for purchase by mail from Evergreen's Bookstore.

Of particular interest to alumni, the book details the history of coordinated studies and the implementation of that study made at Evergreen from the perspective of a faculty member who has served the college since 1970.

To order your copy, mail a check or money order, payable to TESC Bookstore, for \$8.95 (out-of-state residents) or \$9.37 (in-state residents—42¢ sales tax) to TESC Bookstore, The Evergreen State College, Olympia, WA 98505.



EVERGREEN EXPLORES ENERGY ALTERNATIVES

This Fall '81 issue of the Evergreen Review focuses on what President Dan Evans has called the biggest single issue facing the future of the Pacific Northwest—achievement of solutions to energy problems.

We've explored the campus—talking to faculty,

students, alums and community residents—discovering energy as it's discussed, studied, researched and developed by Evergreeners on campus and throughout the United States.

Continued on next page