

Research:
Students, faculty
explore new
areas.
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Tom Peterson—
on the
comeback
trail
Sports, page 13



So you want
to be a
rock-n-roll star...

Arts, page 5



The Mast

Friday

Voi. 63, No. 21

April 11, 1986

Pacific Lutheran University, Tacoma WA 98447

Sanctuary movement faces PLU Congregation

by Emily Morgan
Mast staff reporter

The University Congregation will decide whether or not PLU should support sanctuaries for refugees during its worship services this Sunday.

The sanctuary movement is composed of individuals and organizations throughout the country that provide shelter to refugees who have fled to the United States illegally, seeking permanent asylum from oppressive governments.

The three-member University Congregation Committee on Sanctuary, Brent Hample, Tracy Gubsch and Pastor Stephen Rieke, have studied the sanctuary issue since October 1985. Meeting on a weekly basis, the committee studied questions of conscience, morals, ethics, law, politics, and religion and composed a study document entitled "Sanctuary."

The document, outlining the history of sanctuary, faith responses to the issue, legal considerations as well as the current status of Central America, proposed 15 courses of possible action ranging from no support to full support and housing of refugees.

The document quotes a resolution adopted by the North Pacific District of American Lutheran Church which encompasses Washington, Oregon, Alaska, and Southern Idaho. The district's resolution encourages congregations to "provide public sanctuary for refugees who have fled their homeland." It states that its words actually encourage "...acts of civil disobedience."

The legality of the sanctuary movement has not been finally determined by U.S. courts. The Immigration and Naturalization Service's (INS) definition of refugee is based on the Refugee Act of 1980, which defines a refugee as any person outside his or her country who is unable or unwilling to return because of known persecution or a "well-founded fear of persecution" due to race, religion, nationality or politics.

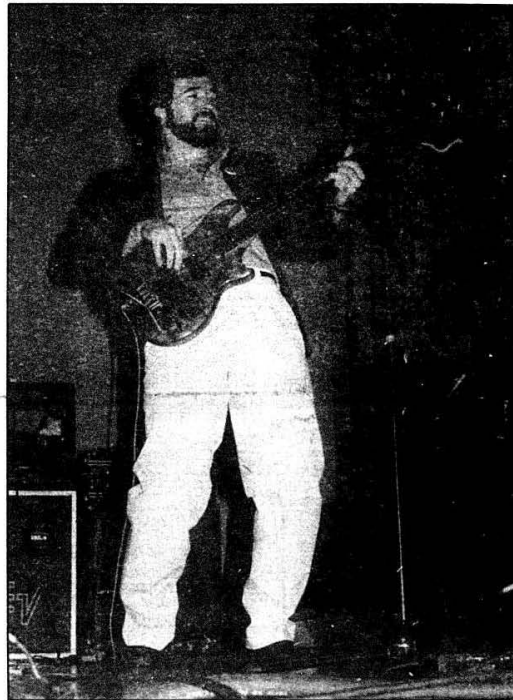
The law, however, specifically excludes any person who has ordered, incited or participated in the persecution of others.

A "person seeking asylum" is already in the country for the same reasons and seeks permission to stay from the INS and the State Department. If a person fails to fit these descriptions, he or she is considered an illegal alien.

On March 9, 15 students from the University Congregation Council and pastors spent four hours discussing the issue and accepted seven of the 15 options for action presented in the document. The next step will be the vote by University Congregation members this Sunday.

see Sanctuary, page 2

All that jazz



Steve Allen, bassist for the KING-TV 'Almost Live' band played some cool jazz Saturday night during ASPLU's second 'Dinner Dance Showcase,' held in Olson Auditorium.

photo by Dan Sorgen

PLU first in state to offer new major

by Stuart Rowe
Mast reporter

The first computer science engineering major offered in Washington state begins this fall at PLU, said President William Rieke.

The new program, directed by Robert Gutmann, a PLU engineering professor, is designed to fill the shortage of engineering degrees in Washington state.

"Financial constraints have placed severe limitations on engineering education in Washington," Rieke said. "Facilities have failed to keep pace with demand, so institutions that do offer engineering programs have been forced to restrict enrollment to maintain quality."

Enrollment limitations are particularly severe at the University of Washington and Washington State University. Both offer computer engineering programs, but neither is officially a major, Rieke said.

The shortage of computer engineers is not limited to Washington. The National Science Foundation predicts a shortfall of 138,000 computer and digital engineers nationwide within the next year.

Gutmann said "computer engineering will fill the gap between computer science, which mostly deals with computer software, and electrical engineering, which mostly deals with computer hardware."

see Computers, page 2

Professor assists in hunt for serial killer

by Kathy Lawrence
Mast reporter

Most Washington residents know of the atrocities associated with the Green River murders, but one PLU professor shares the frustration that the Green River Task Force faces in its continuing attempt to solve the case.

Jon Nordby, assistant professor of philosophy at PLU, said that since he became affiliated with the task force in August of 1985, he has been astounded by how difficult the case is to solve. He said people wonder why the progress of the force has been so slow, but they probably are not aware of the complexity of serial murders.

Nordby is not exactly part of the task force, but rather an observer. He said last August he and a colleague spent a day looking at the flow of information in the investigation. They then produced a report critiquing the task force's procedures.

Since that time he has been contacted to look at the logic of their investigative strategy, especially their use of the computer as an investigative tool. He said he works on his own with consultation

from the analysis section of the force.

"I'm loosely available to the task force. They can talk to me anytime they want," he said. "There's a lot less pressure that way." He added that with a complex task force, which is made up of King County police, the FBI and various other specialists, there is a lot of pressure to get results.

Serial killings, Nordby said, are unlike other crimes. Generally if a homicide is not solved within 72 hours, it will never be solved because there is often a connection between the victim and the killer. Nordby said. Serial killings, he said, are unique.

"It appears as if the Green River killer is simply hunting," Nordby said. He added that since the victims tend to be connected with prostitution, they are likely to go with strangers thereby eliminating the traditional relationship linkages.

The reliability of the information coming from the victim's community, Nordby said, adds more difficulty to the case. Although that community has been more cooperative with the police because of the severity of the crime, there is still quite a distance in their

relations.

In the type of lifestyle that people in that community have, Nordby said, it is not uncommon for them to disappear for long amounts of time. Therefore the immediacy of the crime is destroyed.

Because of the condition the bodies of the approximately 40 victims were discovered in, Nordby said, it is also difficult to predict their time of death.

He said that the first bodies, discovered floating in the Green River, were probably the freshest ones, but that water cleans everything off the body. He added that unfortunately they found them when the police did not know what they should be looking for.

Other bodies that have been discovered in rugged areas, Nordby said, have been left out for a long time. He said that in certain areas body parts were carried off by animals. Decomposed bodies, he said, make the discovery and analysis of physical evidence difficult.

Since the information the task force processes is generally not very accurate, Nordby said, they can only set up a

see Nordby, page 2

Computer grant to give PLU new technology

PLU is one of the first of the nation's medium and smaller universities to offer artificial intelligence (AI) computer training. The university has just received a \$33,810 grant from the National Science Foundation to fund an AI laboratory.

Experts believe that the industrial world is on the verge of a new computer revolution, fueled by the use of artificial intelligence systems designed to use the power of computers to manage knowledge.

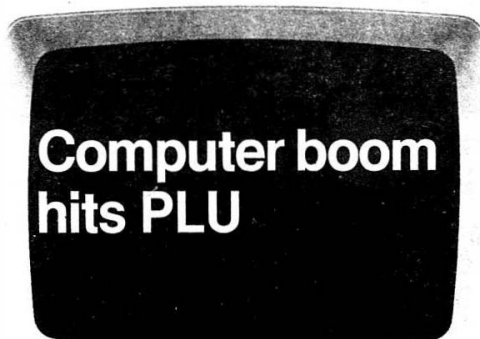
At present, U.S. universities cannot meet the demand for computer scientists with AI training. The leading universities such as Stanford and MIT have excellent programs, and many large universities offer a course or two, but programs will have to become far more comprehensive and common if the U.S. is to compete with other countries in AI development.

PLU computer scientist Rick Spillman believes the new lab is unique in the country. It supports one of the nation's first undergraduate AI programs. "Virtually all others exist at the graduate level," he said.

"Few, if any other AI labs give undergraduate sophomores and juniors access to equipment without having to compete with graduate students," Spillman said.

Spillman believes that the PLU program can serve as a model for other universities. "We are developing a powerful system at minimal cost, and our model could benefit other schools," he said. He predicted that more programs across the country would help relieve the current critical shortage of AI experts.

The need is obvious. Last summer *Iron Age* magazine ranked the importance of 50 new technologies and AI headed the list. A Department of



Defense IMPACTS study ranked it number two.

World economists are recognizing that the future wealth of nations will be dependent upon the utilization of knowledge rather than labor, land or capital. Hence AI tools may be the most important technological development of

this decade, Spillman said.

Spillman observed that AI is defined as the second computer revolution—"the important one," and added that "AI techniques will produce computer systems as easy to use as the telephone. "It will change the nature of the work force," he said.

Computer science engineering major adopted

Computers, from page 1

He said because there is so much interaction between software and hardware, students with talent in both areas are in great demand.

Gutmann said students with a liberal arts education have an advantage "because employers like to hire students who can already read and write."

He said that previously engineering students came to PLU for three years to get a liberal arts education in addition to engineering classes, and then transferred

to a college with a four year engineering program to complete their degree.

Gutmann said PLU has formal agreements with Stanford University in Palo Alto, Calif., and Columbia University in New York, that allows students to transfer without losing any credits.

Once high school counselors spread the word and people find out that "PLU is a place to get an engineering degree," enrollment in the engineering program should increase, he said.

A proposal for an electrical engineering degree was turned down last April because of concern for the number of new courses that would have to be created for the major and the start-up costs of the program. After a review by Rick Spillman, PLU associate professor of computer science, the two faculties decided that the computer science/electrical engineering combination was more practical for the university than the electrical engineering major. This is because fewer courses will have to be introduced.

Nordby uses computers to aid Green River Task Force

Nordby, from page 1

relative scale of best guesses. He said they attempt to construct scenarios, evaluate the arguments, and choose the most possible circumstances.

Nordby said that in attempting to come up with a list of suspects, the problem is that there are too many rather than too few suspects. He said there are a number of suspects who have characteristics that the killer is expected to have. He added that the task force has to somehow pick out the suspects with the highest probability.

Since there are not any accepted methods on how to track down a serial killer, Nordby said, the task force is attempting to establish a strategy. The task force is probably the best authority on the subject. The major thinking lately has dealt with the use of the computer as an investigative tool.

Computers can serve a double function in the process of investigation, Nordby said, for prosecution and analysis. He said that no one has yet figured out the most productive way to use the computer. He said he is trying to help the task force use the computer to its full potential.

"I'm sort of frustrated by the difficulty of the problem," Nordby said. He added that he would like to see the computer used to generate information rather than just store it.

In other serial killing cases, Nordby said, there has been a tendency to rely on the psychological flaws of the killer, simply waiting for him to make a mistake. He said that he would like to see the computer replace the lucky break so that the killer could be stopped before so many lives are lost. He added that if the victims were not prostitutes, the Green River case would be more well known.

Nordby said that in his opinion, serial killers are cunning and capable of ingenious reasoning. He said that such killers are more clever than the law enforcement. He said that if the computer



Philosophy Professor Jon Nordby

could track down such killers more quickly, perhaps challenging their cleverness would help deter them.

"It will never be an easy process," Nordby said. "I am getting all the intellectual challenge I could want and even more. It's an extremely tough case."

Nordby received his undergraduate degree in philosophy at St. Olaf University in Minnesota, where he also studied applied science, English and physics. He received his graduate degree in philosophy at the University of Massachusetts in Amherst.

In 1976, when he was in graduate school, Nordby was approached by the Western Massachusetts Assassination Bureau. They were trying to generate information to be used in the House Assassination Committee's reinvestigation of the John F. Kennedy case. Nordby said he dealt with photos from the assassination and worked on judging logic and consistency.

Nordby disagreed with the committee's statement that Kennedy was shot by Lee Harvey Oswald. Because of the circumstances before and after the

assassination, he ended up questioning whether Oswald really pulled the trigger.

"I guess I'm just less knowledgeable than others. I just didn't agree with their answers. I guess you could call me a professional skeptic," Nordby said. "When you look at a case, you have to be more humble than human nature directs us to be. You have to admit that you just don't know everything."

In his experiences, Nordby said, he

has become aware of the parallel between issues in logic and those in criminal law. He said they are closely related. Next year on his sabbatical he plans on writing a book on the use of computers and logic in tracking down a serial killer.

He said he hopes that his work will somehow help improve the process of tracking a serial killer, especially since such murder cases are projected to be a bigger problem in the future.

Congregation studies sanctuary movement

Sanctuary, from page 1

The document emphasizes Central American refugees because of their relative proximity to the United States and the fact that the United States does not consider these people refugees.

"The U.S. would have to lose face internationally if we suddenly accepted Central American refugees and admit that we have been backing oppressive governments all along," Rieke said.

Sanctuary workers face potential prosecution under the Immigration and Nationality Act of 1952. If a person is convicted of violating the act, the penalty could be five years in prison and/or a fine of \$2,000 for each separate instance of assisting an alien.

According to committee member Hample, approximately 300 churches across the United States and cities including Seattle and Olympia, have declared themselves sanctuaries.

"People working for St. Leo's (a local church organization that provides food for the needy), would probably be the first ones to get arrested," Hample said.

Rieke added that no legal action resulted from the publication of an article, with pictures, of St. Leo's efforts at

assisting refugees.

"We are being careful to provide information and be sure people understand that this is civil disobedience," Rieke said.

"We don't want to impose on other people who would not necessarily know about it otherwise," he said.

"We don't have our own church building, if we did it would be a hotter issue," Hample said. "Since the congregation only meets nine months out of the year, we can't give total sanctuary, but we don't want that to stop us from helping out."

In order to invite refugees to University Congregation, the congregation would need the permission of both Rieke and the Board of Regents, said Hample.

Any decision made by the congregation will be valid until the end of the current academic year.

"We did not want to make decisions at this time that were permanent and binding ones," Rieke said. "This is an issue for this year's council and we will leave it open for other councils to explore it if they choose."

"I don't think it (the sanctuary movement) will be resolved soon," he said. "It's not going to sort itself out quickly."

Forum to focus on third world and technology

by Katherine Hedland
Mast staff reporter

Western Technology and Third World development will be the topic of the third and final Presidential Forum, next Tuesday, in the CK.

Robert Stivers, a religion professor and member of the Technology and Liberal Arts Committee (TLC), which planned the forum, said that all three have been attempts to "relate the phenomenon of modern technology to the liberal arts perspectives of universities."

"With the full range of human knowledge, there is a tendency to pay less attention to liberal arts because of the emphasis of technology," Stivers said.

Edwin Clausen, a PLU history professor and one of the central speakers, will present a lecture on China.

He said he will use China as a case study to show "the failure of the technology of China to address China's needs and the failure of liberal arts education in the United States to understand China's real needs."

Clausen has traveled extensively through Asia, including nine trips to China. His specialties are in Modern China and Comparative Third World Historical Studies.

Clausen's information is based on historical evidence and his own original research.

He has lectured around the world, including Hong Kong, Singapore, Taiwan and the United States. He has taught at PLU for four years.

Michael Poellet of the religion department, will deliver the second main lecture. His speech, entitled "Docile Bodies, Dangerous Memories: The Eros of Technology," will focus on the relationship between the United States and Central America.

Poellet said that he will explain how the relationship between developed and underdeveloped nations is one of dependence. He will also discuss various policies including Liberation Theology, a new religious movement in Latin America, and how, despite the good intentions behind the theories, they fell short in helping Central and Latin America.

Instead, the theories "continue to foster the notion of dependence in these nations," he said.

Continuing the discussion on the issue will be Judith Rasson, from the Anthropology department, Jack Birmingham from the History department, and Gundar King, dean of the School of Business Administration.

"They will present supplementary ideas of their own and offer comments relating to the general theme of the forum, King said.

Stivers said the forums give the university a chance to "use it's own talent. We're trying to stimulate the

scholarship of our own people," he said.

Stivers said the main speeches could possibly be very controversial and he believes the forum will be of interest to many.

In an attempt to involve students and increase attendance, the TLC encourages faculty to relate the forums to their courses.

Attendance doubled at the second

forum, he said, and he hopes this final forum will also be a success.

This year's forums were primarily sponsored by the Consortium for the Advancement of Private Higher Education (CAPHE), an association which awards grants to small colleges to help finance special events, the Burlington Northern Foundation, and the Florence B. Kilworth Foundation.

Leaks to persist in Ingram

by Jackie Gilmore
Mast reporter

The leaky roof in Ingram Hall, which has been raining on classes for the last decade, will continue to dampen student spirits until the building can be vacated for summer break.

Jim Phillips, director of the physical plant, said that the original contractors misunderstood the starting date of the \$14,200 re-roofing project. Instead of beginning work at the start of spring break, they thought the project would begin March 31.

Because of the error, a new roofing firm has been contracted to begin work May 26. In the meantime they will repair any noticeable leaks. It should take about four days and will be done before summer session begins, said Phillips.

Phillips said the roof has been patched

and plastic has been put up in some areas to keep the water out.

"There are still some minor leaks. Right now it's in pretty good shape," he said.

It is too expensive for the university to replace the existing design with a pitched roof because of the high cost of installing rafters to support the pitched roof, said Phillips.

"In the long run it will be more expensive continuing to maintain the flat roof. In 18 to 20 years a pitched roof will pay for itself and you would continue to profit from it because of low maintenance," he said.

"Everyone is supportive of putting the pitched roof on it (Ingram Hall) but there are no funds available."

Phillips said that flat roofs are supposed to last 10 to 15 years, but they "never seem to last that long."

He said that he is still hoping a pitched roof will be built in the future.

School of Business moves some offices to Blomquist

by Katherine Hedland
Mast staff reporter

The School of Business Administration is moving into Blomquist House, previously occupied by the Communication Arts department, said Gundar King, dean of the School of Business Administration.

As part of the final stages of a two-year university reorganization plan, King said the School of Business is moving to consolidate its offices into fewer buildings. Some of the offices are now located on East Campus, in Ramsey House, and the Administration building.

King said that many of the professors who had offices in small or inappropriate places will be moved into Blomquist.

"Some of them have been in cupboards," he said.

There will be one room vacant in Ramsey House and two rooms in East Campus available for classroom use. Office and classroom use in Ramsey house,

located on the corner of I Street and Wheeler, will eventually be eliminated, King said.

In addition to office space, Blomquist will have one conference room and a computer room for the School of Business.

There will be no further remodeling done on Blomquist House, King said. The inside of the house was completely renovated a couple of years ago, said Jim Phillips, Physical Plant director.

The Communication Arts department moved into Ingram Hall during Interim, and the School of Business is now waiting for completion of basic housekeeping and repairs.

King said that the School of Business is in no hurry to move, but they do hope to be settled by the end of the semester.

Michael Bartanen, chair of the Communication Arts department, said that Ingram is a better place for the department because there is more space, and classrooms and offices are now located in the same building.

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Arts

Air band show cancelled when interest wanes

by Shelley Bryan
Mast reporter

PLU's fifth annual "Battle of the Airbands," scheduled for tonight and tomorrow night in Chris Knutzen Hall has been cancelled due to lack of participation.

By yesterday afternoon all but two entrants in the contest had withdrawn from the event, said ASPLU Special Events Committee Co-chair Don Erickson.

Ten bands had been signed to perform, said ASPLU Program Director-elect Chip Upchurch.

The competition has been a popular event at PLU, but as early as last Monday some committee members were concerned about the number of bands participating this year.

Committee co-chair Bruce Randall said he was "a little worried about the poor showing (of bands) so far."

The only requirements air band contestants need is to supply their own music, keep the performance in "reasonably good taste," and to follow certain time restrictions.

Erickson had said earlier this week that he was not concerned about this year's show; but several bands withdrew at the last minute forcing the cancellation of the show.

The air band musicians had different reasons for why, or why not, they were trying out. Most said they had auditioned because "it would be fun." David Remer, an air band contestant both last year and this year, said he was planning to do it again because, "it was a blast."

When told of the show's cancellation Remer said he was very disappointed.

"I think it sucks," he said. "Everybody had such a good time last year that it's too bad the committee sat on its hands until it was too late."

Remer said he believes the committee did not publicize the event well enough or far enough in advance.

Students not trying out gave varying reasons ranging from "too short of notice" to "not being able to think of a song." Brian Lloyd, one of the winners from the air band contest last year, said he wasn't trying out because "the timing was bad as far as studies." However, he did say he enjoyed last year's experience.

"It's exciting to do an act in front of an audience," he said.

The next activity sponsored by the Special Events committee will be a dance after the ASPLU spring picnic on May 9. Depending on whether some conflicts can be resolved, the dance will be held in Red Square.



The Anna Wyman dance troupe uses props and make-up to communicate its message to the audience.

Dance troupe redefines the art

by Jenna Abrahamson
Mast staff reporter

Prepare yourself to be thrust into a world of surprise, beauty, and the bizarre as the Anna Wyman Dance Theatre steps onto the Eastwood Auditorium stage tonight at 8 p.m.

Canada's leading dance ensemble has been brought to the campus as the final event in this year's Artist Series. In selecting each of its events, the Artist Series committee tries to present quality groups whose performances provide a wide repertoire of entertainment, said Jenny Linham, co-chair of the committee.

One of the main reasons the troupe was selected for the Artist Series was because it has an "established reputation," and it is one of the most professional groups on the committee's list of possibilities, she said. She said that price and availability were also major factors in the decision.

Wyman first began working with students in Vancouver, British Columbia in 1967. For the past decade, the troupe has covered the extreme bounds of dance in its varied and unique programs. The repertoire is selected exclusively by Anna Wyman, the founder and artistic director. Her work has achieved national and international acclaim.

Wyman utilizes elements such as ingenious costumes and props to convey the statements made in her choreography. PLU dance instructor

Karen Scherwood said that Wyman's trademark is the incorporation of these components as a part of dance.

Wyman has explored the use of several types of media, for more unusual methods of expression. Prose, sound effects, and mixing have all helped to enhance audio sensations.

Video cameras have even been used on stage to bring out items such as the nose or ears from a different perspective, said Scherwood.

The company is made up of eight to

ten dancers, male and female, several of whom have been with Wyman for over a decade. Because of the group's small size, there is no "star" system, and each dancer is required to learn a majority of the roles. Dancers take a daily class in both ballet and modern dance, followed by several hours of rehearsal, six days of the week.

From this extensive training, Wyman can draw upon many resources to form her dancers' movement ability, all of which enhance her diverse style.



The small number of dancers in the group requires that every member perform at his best.

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Former PLU students trade Bach for rock



Currently on tour in the Northwest, the band 2XY has been gaining in popularity and experience. Band members are, from left to right, Mike Robinson, Carrie Clemetson, Kelly Willham, and Lucy Watts.

by Janna Abrahamson
Mast staff reporter

If the names and faces of the members of the band 2XY seem familiar don't be surprised. Two former PLU students are half of the group that has begun to make a little money, as well as make music.

Vocalist Carrie Clemetson, a former student of music and sociology at PLU, and PLU piano performance graduate Lucy Watts recently departed for a tour of Northwest clubs. The other members of the band are guitarist Mike Robinson and drummer Kelly Willham.

The group left last Friday for Vancouver Wash. to play "on the road". They returned to Seattle for June performances and hope to continue traveling to Hawaii.

The band's name is a pun on genetics and algebra; the men are represented by "Y" chromosomes and the women by "X" chromosomes—therefore, 2XY. The group's founder is Robinson who began writing and playing music while living in Anchorage, Ala. in the summer of 1983.

Clemetson said she was drawn into the band almost by chance. Also a resident of Alaska, she met Robinson in public school and later agreed to help him write music. Soon after that, she began singing with the group.

"At first you're so aware of every move you make," she said. "Everyone expects you to do and be something when they see you."

It takes courage to get on stage, she said.

Clemetson describes the band's "big break" as a six-month tour of Hawaii and Korea. Previous to that 2XY had been contracted for several jobs around both Anchorage and Seattle.

"Going on the road is lots of fun," she said.

However, said Clemetson, touring also taught them that a lot of groups "want to kill each other." But few of those the band came across were the stereotypical drug-addict rockers, she said.

"We're a clean group, we don't want any stuff like that."

Band members said they were fortunate to have met drummer Willham. He stepped in to the post while they were in Hawaii. He is a veteran of several years in the music business.

Last fall the group came back to Tacoma while Clemetson attended school. Watts said band members went their separate ways during the next few months and she sat in on keyboards for what she thought would be a short-term favor for a friend. But as her enjoyment of the job increased so did her commitment.

Watts said it was difficult to jump right into performing with a rock band after playing and studying classical music at PLU. She joined the group right after her senior recital last November.

"I feel like a different person now," she said. "Now the only pressure I feel is getting the songs learned."

After acquiring new members the band wanted a new name. They also purchased \$20,000 of equipment.

Watts said she was surprised to find that her musical skills directly applied to rock music.

"Ear training has really helped me orchestrate songs and to discern intervals while composing," she said.

Clemetson said she and Robinson have both been classically trained and they find it useful.

Clemetson said the band members have been working on rough areas of their performance. A March performance in the Cave at PLU showed them what needed to be "cleaned up" before the tour started. That evening was also the first time they had worked with the sound man, Tom Wilson.

Refinements made since then have made the band more confident. Clemetson said they are moving to larger capacity halls with bigger stages and better lighting.

Now that things are going so well, she said, the object of performing is to have a good time and provide fun for others.

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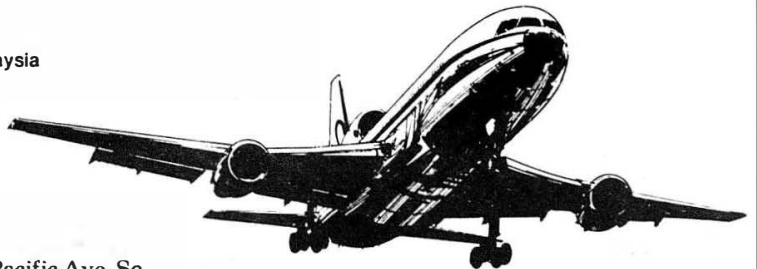
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Opinion

PLU and the sanctuary movement

This Sunday the University Congregation will be addressing the Sanctuary Movement which has become a moral and political issue to churches nationwide (See related story, page 1).

The University Congregation should be applauded for its decision to take a stance on such a timely and morally important issue. Credit should also go to the congregation's Committee on Sanctuary and its members, Brent Hample, Tracy Gubsch and Pastor Stephen Rieke, who thoroughly researched the issue and have explored a variety of options available to the congregation.

The committee has been researching the Sanctuary Movement for over six months, studying the history, philosophy, legal problems and recent examples of the movement.

By undergoing thorough research and discussion, the Committee on Sanctuary was able to recognize the problems that could ensue if a college congregation was to attempt to actually house Salvadoran refugees seeking asylum from persecution in their country. Such problems would include the fact that a student congregation meets only nine months of the year, and doesn't have the financial resources to provide complete support for a single refugee, let alone an entire family.

Recognizing these difficulties, Hample, Rieke and Gubsch have developed a well-planned ballot which will be distributed at all three services Sunday. The ballot provides voters with not just the option of supporting the Sanctuary Movement, but also allows congregation members the opportunity to determine the types of actions the congregation take, ranging from doing nothing or merely educating the public concerning the Sanctuary Movement to financially supporting local churches providing sanctuary, and assisting refugees involved in the movement (providing child care, assistance in finding employment, and in applying for U.S. citizenship).

According to research conducted by the Center for Constitutional Rights, up to 1 million Salvadorans had been displaced, and over 40,000 Salvadoran civilians had been killed by early 1985. In Guatemala, 86,000 people were killed by paramilitary death squads between 1954 and 1984.

The American Civil Liberties Union has compiled evidence of 120 Salvadorans who have suffered murder, torture and imprisonment after being deported from the United States.

Because the United States government has failed to recognize the need to offer sanctuary for refugees, churches and recently city governments have taken a morally correct stance by providing asylum Salvadoran and Guatemalan refugees.

The PLU University congregation appears to be following in this trend of providing aid to Salvadoran and Guatemalan refugees. Hopefully the months of work will pay off for the Committee on Sanctuary and for the growing number of Central American refugees seeking asylum.

—David Steves

Froot of the Lute

Poetic contemplation of the magic of spring

by Clayton Cowl
Mast staff reporter

'Twas the night before Friday
And all through the school
Something was different
Something was cool.

Now some say that sunshine
Has no effect
But let me tell you
It's hard to dissect.

Students are grinning
From ear to ear
Even though there's still physics.
There's nothing to fear.

On softball! On frisbee! On lotion!
They shout
The sunshine is here!
So let's let it out.

The books can all wait,
They can sit on the shelf,
You know what you're doing
Leave the hard stuff to Ralph.

It's time to veg
You sip your coffee
Wonder who created rain,
And Momar Khedaffi.

But students aren't the only
Ones who love light
There's many sun lovers
With the same pligh.

The gardeners tend the flowerbeds,
They do it with care
In hopes that the Toro man
Soon will be there.

But gardeners sulk
They steam, they fume
When their bright tulip beds
Are picked on and ruined.

The makers of shorts
Counting their jewels
Just kick back and chuckle,
"Look at those fools."

Uncle Bob sits at his food service desk
Hoping the regents won't discover a mess.
But inside his head he knows he's safe
The regents are outside
Gee, sun is great!

Each college professor
Peers through his spectacles
Counting up failures
And solid rejects.

The housemaids all sweat
They clean and they toil
The sun rays look in
Oh, how they boil.

Little cuddly babies
In the UC they spit,
They escape from their strollers
To give mommy a fit.

From youngest to oldest,
Most thinnest to stout,
All like the sunshine
Inside or out.

So when sunbeams slice
Your window each day,
The clouds all are high
And out of the way—

Thank God for sun
And all it stands for,
All of its pleasantries
All of its glow.

It's just one sun
In this land it's found,
Forces a smile,
And makes the world go 'round!



The Mast

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BLOOM COUNTY by Berke Breathed



Conservatives plan anti-Soviet divestment

by Darryl Brown
syndicated columnist

Since the Reagan administration came to office five years ago it has been struggling to define a conservative human rights policy to end the liberals' monopoly on championing the plight of the oppressed. But it must find a way to do so while still railing against communism and not hassling allies. Now a student group owned and operated by the Young Conservative Foundation thinks it has found the key. In the process, it has discovered something else conservatives too frequently overlook: corporatemoorality.

College Republicans have been hard-pressed to counter the swelling call by American students to divest college investments in companies that operate in South Africa. Republicans are leary of losing the friendship of the white minority government that is, after all, staunchly anti-communist and cooperative with American interests. Young conservatives are uncomfortable with the fact that they seem, for American strategic advantage, to support a racist state and throw human rights to the wind. They also don't like being left out of the hottest student activist issue of the decade.

So a new conservative students' human rights group, known by the

Republicans are leary of losing the friendship of the white minority government (in South Africa) that is, after all, staunchly anti-communist and cooperative with American interests.

acronym STOP for Save The Oppressed People, is countering with a divestment campaign of its own. They call for pulling assets out of companies that do business with the Soviet Union, and they advocate a boycott of Gulf Oil because it operates in the Marxist state of Angola.

To prove they also disdain the oppression of innocent people and the engage student zeal, STOP has adopted the tactics of the left—petitions, boycotts, sit-ins, demonstrations—for the causes of the right. The effort is admirable, but fraught with difficulties.

Republicans pride themselves on their pro-business reputation and image as free-enterprise advocates who are, above all else, fiscally responsible and good for American commerce. Under that banner of private enterprise and corporate capitalism they win elections.

But business, in general, has a problem with moral conduct, having as it does only one criterion for its actions: profit. Financial decisions are often unconstrained by ethical considerations.

Look for instance at die-hard Republican farmers in the midwest who

raise, say, wheat. They are as virulently anti-communist as the next guy until someone suggests, as Jimmy Carter did, we stop selling grain to the Soviets. There the argarians' red-baiting stops. It is sometimes exceedingly hard to put your livelihood where your mouth is. Just ask the high-tech companies who were not at all enthusiastic about President Reagan's suggested prohibition of the sale of American technology to the Russians for their gas pipeline to Europe.

The STOP effort is one of the few attempts by business advocates to put moral considerations into commerce, to rank ethical decisions above financial ones. It has previously been the preserve of liberals (though not always Democrats) to say that some financial gains are not worth their costs, such as pollution, hazardous working conditions, or sharing profits with oppressive regimes. But STOP's targets are selective: the abuses by governments with U.S. support—El Salvador, South Africa, South Korea, and many others—are still ingored.

Liberal efforts have also had a de facto selectivity. Most opposition from the left has been of abuses by American allies, on the premise that we should not support tortuous governments. But where we have little connection, i.e., communist nations, liberals have been largely inactive, being interested primarily purifying the American sphere of influence. If STOP expands to the realm of human rights concerns to countries now overlooked, it does a good service, but it must not ignore atrocities just because they are committed by American allies.

All such efforts still have a lot of work to do to convince business that human rights sometimes take precedence over the bottom line. The Young Conservatives can start in their own party; Commerce Secretary Malcolm Baldrige is calling for increased trade with the Soviet bloc. They may be commies, but they've got plenty of rubles. And business is business.

American College Syndicate (c) 1986

Call for divestment in S.A. despite new drinking equality

by Mark Schroeder
Mast columnist

Good news for all you people out there concerned with the situation in South Africa. It is now legal for whites and blacks to drink in the same establishments.

The Nationalist government Tuesday ended required segregation in hotels, bars, and other places that serve liquor. Industry spokesman Fred Thermann

Off The Mark

called it "a tremendous step forward," but he went on to say that individual proprietors were still free to decide for themselves who they would and would not serve.

In what can only be called another tremendous step, Nobel Peace Prize winner Bishop Desmond Tutu openly called for economic sanctions, including divestment. Earlier last year Tutu said he would not call for divestment unless the government failed to take steps toward dismantling apartheid. Obviously he feels that drinking in bars is not all that important. Tutu's call for divestment is a very significant shift among the more moderate voices of opposition in South Africa. We here in the U.S. can expect the issue of divestment to become even more vital. In fact the P.L.U. Board of Regents will be considering a plan for divestment at their April 29 meeting.

So, you may well ask, what is this divestment thing all about? Briefly, it is the process by which someone who has money invested in banks and businesses that do business in South Africa shift their investments to companies that don't. This way they are not supporting apartheid in any direct fashion. South Africa, with its vast mineral wealth and equally vast supply of cheap labor has been a very tempting investment for U.S. companies. Divestment has two major goals. First, it is a demonstration of disapproval of the apartheid system. Second it sounds pretty foolish to say you are against apartheid when your investments there are earning you money.

There is a lot of misunderstanding as to what the effects of divestment would be in South Africa. Unless we as a nation divest entirely, the money will still be there. The initial result will not be major economic setbacks for the blacks or whites. At this stage divestment is mostly a way for people and groups to show that they do not approve of apartheid by putting their money where there mouths are.

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Ask your parents for the money to buy the computer.



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Research on campus: Faculty, students explore new areas to enhance their teaching, education

by Brian DalBalcon
Mast projects editor

Although research is the backbone of any intellectually growing university, PLU has no official research requirement for its faculty.

PLU sees itself first as an instructional institution, rather than a think tank for experimental research.

Because of this attitude, academic research is only strongly encouraged at PLU, said professor Jerrold Lerum, chair of the biology department.

"Teaching is a faculty member's first responsibility (at PLU). Research is not a substitute for teaching," said Lerum.

But if a faculty member ever hopes to advance his rank within the university and reach tenure, he must be continually engaged in research.

The bylaws to the Faculty Constitution (Article V, Section 2), state that in order for a faculty member to reach associate professor, he/she "shall have evidenced a continued development in scholarly work."

Qualifications for a professor state that he/she, "shall have evidenced a quality of continuous growth in teaching and leadership."

"Though research is not necessary, it is required in the sense that it demonstrates scholarly work, and that means research," said Eldon Schafer, professor of business administration.

"There is really no other way of demonstrating scholarly work, unless you can identify it. Publishing is simply a way of documenting one's work," Schafer said. "You don't expand the frontiers of knowledge if no one ever sees your work."

The School of Business holds an unwritten guideline that its faculty be continually involved in research of some sort.

"It is our expectation that every faculty member will produce something every year (for publication). That could mean a journal article or a case report," Schafer said.

He added that the School of Business also expects their faculty to produce a substantial research project every five years "that the profession says is good

research." This is usually in the form of publication by one of the leading academic journals.

"Good journal articles are judged on the quality of the research. It is on this basis that articles are accepted or rejected," he said.

"Research is an important part of the accreditation process, and for external evaluation to judge if a faculty member is any good," said Gundar King, dean of the School of Business.

The quality of research "affects the university's reputation," King said.

Research is also a vital part of the natural sciences departments.

Chemistry professor Fred Tobiasson said of the chemistry department, "We have a long, long tradition of research. It is built into the fabric of this department."

Research delivers benefits to both students and scholars.

"University professors are not only committed to the transmission of knowledge, but are also responsible for advancing what we know and sharing them with colleagues," said Chris Browning, professor in the History department.

Browning said that research also increases the vitality of a professor. "If all a professor does is teach the same classes year after year, the material becomes boring to him. He must do research to keep intellectually alive. It revitalizes him and makes him an active part of what he is teaching."

"History is not a stale body of facts. We must do research to find new ways to explain what has been said before," Browning said.

Research finds infertility can strengthen marriage

by Brian DalBalcon
Mast projects editor

As women enter the workplace in greater numbers and put off having children until later, the problem of infertility among married couples has reached epidemic proportions.

Over 2½ million Americans are infertile. They spend \$200 million annually in medical expenses to overcome the problem, said Ann Hirsch, associate professor of nursing at PLU.

Hirsch said she has always been interested in the infertility problem, especially since she and her husband have been personally affected by infertility.

Working with her husband, Steve, an assistant professor of psychology at the University of Washington, the couple spends most of their time researching the effects of infertility on married couples, from their home.

The emphasis of their study is aimed at measuring the self-esteem, marital, sexual, and general satisfaction of infertile, married couples.

Using a sample of 31 women, 29 men, and 20 couples, mostly from the upper-middle class, the Hirschs have sent out five different questionnaires to all 100 of the participants.

The results have been both predictable and surprising.

Most surprising was the discovery that marital satisfaction did not

decrease because of infertility. The problem is considered a crisis among married couples. The Hirschs reasoned that the crisis of infertility draws couples together and makes the marriage stronger because both must go through it together.

"If you have open communication and a strong marriage in the first place, infertility can make a marriage stronger," said Hirsch.

"As couples say, 'Let's work together,' they become more of a couple," she added.

As the Hirschs predicted, they found a large decrease in sexual satisfaction among infertile married couples.

When an infertile woman is taking drugs to help her ovulate, such as clomid

or pergonal, she must have intercourse on a set schedule to increase her chances of becoming pregnant.

Hirsch said the couples' sexual satisfaction decreases because of the loss of spontaneity.

"Sex loses the fun aspect. Everything is structured and timed. The couple must copulate a certain way, at certain times," said Hirsch.

The study also reveals that depression grew among infertile women as they sought treatment without success.

Hirsch said the women's discontentment grew as they focused on the fact that the couple's infertility was the women's physical problem.

Their research found that 80 percent of infertility problems belong to women.

Also, because treatment is expensive, Hirsch found depression increased as infertile women went through treatment month after month without positive results or return for their money.

"If you have open communication...infertility can make your marriage stronger."

—Anne Hirsch, associate professor of Nursing

Minimal treatment is \$500 a month. Drugs can run up to \$1,000 a month. In-vitro fertilization averages from \$3,000 to \$5,000 with a 23 percent success rate, according to an April 1985 edition of Science magazine.

Hirsch said that the huge investment of money and time is not always necessarily negative. "It may have a positive effect, especially on the male. He, at least, feels like he is doing something," Hirsch explained.

Older women are more susceptible to depression, so the problem is compounded when couples put off having children. "At 39, the women are much more depressed," said Hirsch.

The results of the research, entitled, "The Psychosocial Implications of Infertility" will be presented June 20 at a Nursing Research conference in Honolulu.

The Hirschs began their research in January 1985. Last June, they were awarded an \$800 Regency Advancement Award by PLU. Because PLU's School of Nursing is clinically oriented, not a great deal of research is being generated. But Hirsch said, "We need to do more research to verify what we (teach)."



Anne Hirsch, associate professor of Nursing, poses with a picture of her two children, Aaron, 4, whom she adopted, and Colin, 1, whom she conceived after going through surgery for her infertility.

Photo by Brian Dal Balcon

Ryan uncovers Egyptian history through ancient artifacts

by Brian DalBacon
Mast projects editor

Donald Ryan is working on PLU's campus to uncover the mysteries of ancient Egypt.

As PLU's only full-time research associate, Ryan spends most of his energy studying ancient Egyptian artifacts, trying to unravel their secrets and lay the groundwork for further study by other researchers.

Ryan, along with Dr. David Hansen, associate professor of biology, recently completed research on ancient Egyptian cordage (ropes).

Ryan said this is "the first, truly analytical study of ancient Egyptian cordage." He said that the study is extremely important because it can tell a great deal about ancient Egyptian culture.

Because ropes were used daily to build all the great Egyptian structures, such as the pyramids and temples, Ryan said, knowing the strengths and capabilities of the ropes can tell researchers how these structures were built.

In their research, Ryan and Hansen identified the materials used to make the cordage and made a structural analysis of the way they were constructed.

"We found that some materials have been misidentified by earlier scholars. When you do proper identification of materials it is a very complicated process," Ryan said.

Ryan and Hansen set rope samples in wax and made paper-thin slices of them, which were then set under a microscope. The cordage's cell structure was then compared to those of modern plant samples so the materials could be properly identified.

The results of their study are presently being published by the British Museum in London.

Working mainly with the British Museum, Ryan keeps busy traveling to and from London because of the Museum's "largest and most representative collection of Egyptian antiquities in the world," he said.

A 1979 PLU grad with a Bachelor of Science degree in political science and a master's degree from the University of Washington in 1982, Ryan has worked as a researcher at PLU since 1984.

With a great interest in ancient Egypt, Ryan is presently working on three different research projects.

Again working with Dr. Hansen, Ryan is studying Egyptian basketry. As a "fairly original study," Ryan said this is a class of objects that has largely been ignored, though they too, like the cordage, are an extremely important part of Egyptian culture that can tell a lot about the civilization.

Although similar to cordage, the study of basketry is more elaborate and has many more variables, such as more materials, structures, weaves, and stitches. "Where we used one page to describe the measurements of a cordage sample, it takes four pages to describe a basket," said Ryan.

The dates of the ancient cordage samples run from 8,000 to 2,000 years old, he said.

Ryan's second current project is writing the excavation report of an extremely rich archeological find in 1906.

Archaeologist D. G. Hogarth was commissioned by the British Museum to excavate the tomb he found of an Egyptian king in Asyut, rich in artifacts and untouched by grave robbers.

The tomb contained not one, but 57 coffins, each surrounded by a large variety of objects.

Though he brought back many of the ancient artifacts, a detailed report was never made and the contents of the find have largely gone unknown.

Ryan has spent much time in London and Egypt studying, cataloging, and recording in precise detail what was found in the tomb and how the excavation was conducted.

He has made computer lists of the objects and coffins from each tomb, describing their unique characteristics.

Pouring through Hogarth's diary, Ryan said he is interpreting exactly what took place 80 years ago. Beginning the project last summer, Ryan said he is shooting to complete his research this December, so that the report and Hogarth's drawings can be published in 1987 to commemorate the 80th anniversary of the excavation.

"There are a number of scholars interested in what came out of this excavation. I have already provided quite a bit of data to the scholars in the British Museum," said Ryan.

"When this report is published, others can do a more detailed study of the artifacts," he added.

For his third research project, Ryan is compiling an index of the hieroglyphics inscribed on the bottoms of the ancient Egyptian funerary cones.

Found at the doorways of tombs, Ryan said the cones are like mini statues believed to represent offerings of bread to the deceased. But he added that their real purpose is still a mystery.

Ryan said the cones are thought to be stylistic elements of the tombs, with the name and title of the tomb's owner. The symbols tell the interpreter much about the owner's lifestyle and occupation.

A book entitled *A Corpus of Inscribed Egyptian Funerary Cones* was published in 1957 by N. D. G. Davies and M. F. L. Macadam. The book contained drawings of the hieroglyphics found on all known cones in the world.

An index in the book was hastily made with many inaccuracies because of a rush made by Oxford University, publisher of the book.

Ryan is redoing and expanding the index, to be published as part two to the original book of drawings. It will include a summary of the translations of the hieroglyphics, where the cones can be found in museums around the world, and bibliographical references of where the cones were mentioned in other publications.

Ryan said he is producing "the long awaited index companion volume."

"If you are studying a particular Egyptian god or king, the cones contain all kinds of information. Without the proper index, you must go through each of the 611 cones and read each of their inscriptions," Ryan said.



Don Ryan is interpreting hieroglyphics found on ancient Egyptian funerary cones and writing an index to the book of hieroglyphics shown in front of him.

This summer, Ryan and Hansen will travel to Egypt to gather a large variety of Egyptian plants. They will bring them back to PLU and establish a materials reference collection that will enable future researchers to identify artifacts constructed of natural materials.

"We will gather a complete range of plants to enable researchers to identify material of any artifact in Egypt made of a plant," Ryan said.

"This will be a very important reference collection for use by any resident or visiting researcher. It could make PLU a center for identifying these materials," he said.

As another project in Egypt, Ryan and Hansen will replicate the ancient

construction of ropes and test them in an engineering lab in San Francisco for breaking strength.

This will tell how the ropes could have been used in Egyptian engineering.

Ryan said they will also examine "robber's ropes." These ropes were found in royal tombs, hung from the ceiling by grave robbers and used to vault pits dug to prevent them from entering and raiding the tombs.

Ryan said the ropes can be carbon dated and he hopes that this will give an accurate age of the tombs.

Ryan said he feels strongly that this research is an important part of the university. "Any institution cannot help but be distinguished by original research."

Summer student research becoming a PLU tradition

by Clayton Cowler
Mast staff reporter

When most people hear the word "team," they imagine the roar of a crowd, sweat clinging to tired, athletic bodies, and intense determination.

But there's a team at PLU that plays one of the most challenging games around all summer and works each season in relative seclusion.

No roar of the crowd is heard from this squad's arena. Only the dedicated drive to learn is evident.

There's something special about the tradition that has fueled the success of the PLU chemistry department summer research team, sponsored for 10 weeks each summer for the last twenty years.

The National Science Foundation funded the first research group in 1966

and since that time, the department has hired up to eight student researchers each summer through outside sources.

"The students actually get a lot more out of it than we do," said PLU chemistry professor Charles Anderson. "We do it because we enjoy it, but it's the students who are getting a head start. It's very helpful if they decide to go into graduate school or directly into the industry."

Various outside parties have funded the research team, including Reichhold Chemical Corporation's Northwest Division and the Robert C. Olsen Chemistry Fund, established in December of 1974 by a generous contribution from a PLU alumnus in the name of the retired chemistry professor.

After the department promoted enough money to support the funding of

at least three students per summer, the first Olsen Memorial award was presented in 1979.

"The primary contributors to the fund were former student researchers themselves at PLU before going onto other positions," said chemistry professor Fred Tobiasson. "We hope now that we can appeal to people interested in PLU to help support that fund. We have not sought money for the fund for a long time because of the building project of the \$8.6 million Riecke Science Center facility."

Being a member of the summer research team is an experience that past members have not forgotten.

"It really helped me prepare for graduate school," explained senior Steve "O.P." Keller, who will be doing graduate study in inorganic synthesis at

the University of California at Berkeley next fall. "Most of the people who do research usually plan to go to medical school or graduate school. When I went to Berkeley, most people had done research, so it's really an advantage to do it (research)."

Marlys Nesset, a senior, says that in the chemistry lab over an entire summer can actually be fun.

"You really learn a lot about all the work you have to do on your own: the stuff that you won't find in a labbook," she said. "You can really have a lot of fun. It's a learning, as well as a social, experience."

Three research projects will be pursued this summer with six to eight research positions currently pending department review.

See CHEMISTRY, page 10

Nazi-Jewish policies found to be self-destructive

by Brian DalBalcon
Mast projects editor

History professor Chris Browning is working to solve the question of the Final Solution. Nazi Germany's answer to creating the ideal human race.

Sixteen years of research and two books later, Browning has thoroughly acquired an expertise on the subject of Nazi-Jewish policy from 1933 to 1945.

Known internationally as an expert on the subject, Browning is one-third the way through writing his third book on the topic, which will be one in a 24 volume set, entitled *A Comprehensive History of the Nazi Holocaust*.

Much of the research for his current book, *The Evolution and Implementation of Nazi-Jewish Policy 1939-1945*, was gathered last year at the Institute for Advanced Studies at Hebrew University in Jerusalem.

After receiving an invitation from the Institute to research the subject in Jerusalem, Browning took a year's leave of absence from PLU.

Speaking with the enthusiasm and energy of a schoolboy with a new found love, Browning demonstrates heart-felt excitement when explaining the subject that he has explored so deeply.

Browning will begin his book with an explanation of the invasion of Poland in 1939 and the beginning of the extermination of the Jews.

Also in the first part of his book, Browning will write about the Nazi demographic policy (the resettling of the Jews and Poles in the Nazi reservation policy) and describe the ghettoization of Jews in Poland.

He also said he will discuss the relationship between the army and the Nazi occupation administration.

Browning clearly described several pressures within the Nazi administration that made their actions seem understandable, if not partially acceptable.

Browning said he will describe the pressure of Hitler's obsession with creating an all-Caucasian race. He said Hitler's goal-setting pressure to solve the Jewish problem drove administrative leaders to set higher and higher goals, and for followers to outdo their superiors in order to climb the ladder.

As the Nazi's began their invasion of European countries, the new territories became the reward for the party faithful. Through a hierarchical selection process, Browning said the best, most faithful Nazi's were given control of areas with the biggest Jewish populations.

Another pivotal point was the political pressures between the old party faithfuls and the bandwagon Nazis. Browning said that because the Nazi administration had a broad support base crossing all German classes, there had to be something for everyone.

Because all of the many promises made by the Nazi administration could not be kept, Browning explained that psychological rewards had to be created for the German people.

He said that by lowering one class of people, the Jews, the rest of the nation felt uplifted and more important.

"A scapegoat class was created as compensation," for the political promises that could not be kept, he said.

"The Jews were easy to denigrate.

The result was to radicalize Nazi policy," Browning said.

Browning explained that additional pressure to continue discriminating against the Jews was caused by an ever-increasing bureaucracy of Nazi officials whose sole purpose was to decide what should be done with the Jews.

"If you stop doing things to the Jews, they would be out of a job," he explained. "Pressures for radicalization increased as pressures to slow discrimination diminished. Then what you got was a natural acceleration."



Photo by Brian Dal Balcon

History professor Chris Browning is writing his third book on Nazi-Jewish policies during World War II.

Unlike the government in the United States, Browning said Hitler's regime created the image of total support.

"Hitler created the image that he is incarnate and that all Germany was behind him. The rhetoric was needed to keep up that image of total support," he explained.

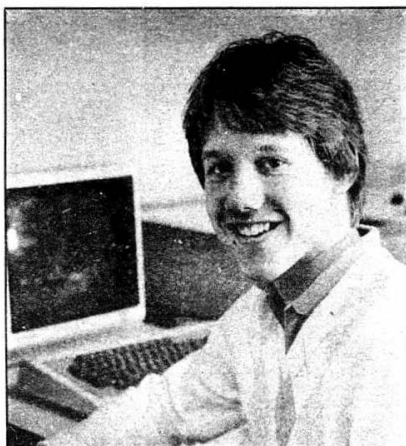
Because of the nature of his administrative policy and the image he

created for the Nazis, it would have been very difficult for Hitler to back off from his goals.

"Hitler was driven to increasingly more reckless policies. This can be self-defeating, especially in foreign policy when you make enemies of more and more countries until there is no way you can beat them all. In this way, Hitler assured his own defeat."



Joe Tobiason (left) won the outstanding research paper competition from the student affiliation of the American Chemical Society in 1985 for chemical research done at PLU. Doug Grider also is involved with chemical research at PLU.



Steve Keller, a senior chemistry major, received a grant for polymer research from the American Chemistry Society.

CHEMISTRY, from page 9

Tobiason will examine molecular interactions of cyclic short-chain polymers which may have a bearing on forming a new catalyst in synthesizing new compounds.

Anderson is scheduled to continue his research in lignin chemistry, after a four-week trek during Interim showed promising results. Lignin is a substance found in wood pulp that acts as a natural adhesive.

Anderson will be experimenting with lignin odels and how they react with potassium permanganate in acidic solutions.

Lawrence Huestis, another chemistry professor at PLU, hopes to analyze formaldehyde, a preservative suspected of having a high health hazard at low concentrations. His work will focus on obtaining a better understanding of the quantitative analysis of free-formaldehyde and what may interfere with that.

Senior Keller, a national winner in the American Chemical Society Polymer Division's \$2,000 undergraduate research grant funded by General Motors in 1985, explained that the summer research tradition has proven to be a valuable place to start.

Polymers ignite Tobiason's research

by Clayton Cowl
Mast staff reporter

Mention the subject of polymer chemistry and you'll spark Fred Tobiason's attention. He's been a specialist with polymers, or long chains of molecules, since the beginning of his career which started as a graduate of Pacific Lutheran College in 1958.

Tobiason, 49, a professor in PLU's chemistry department and a nationally recognized polymer chemist, is currently pursuing a new area in this chemical field.

Tobiason is examining the detailed molecular structure of procyandins, an important natural polymer found in most plants. By establishing the chain configurational properties in these structures in a solution, the interactions

of tannin and protein can be more easily understood.

Tannin is a polymeric structure found concentrated in the bark of most trees. Derivatives of these phenolic compounds include specific glues, adhesives, and coating materials.

Tobiason, whose work has been reviewed at lecture circuits as far away as Japan and Finland, is no stranger to original research work. Not only has he been involved with at least five published chemical papers in the last five years, but he now has the United States Department of Agriculture's forestry products division very interested in his current work.

The agency hopes that Tobiason's work in the tannins of tree bark will cause a breakthrough in understanding how the complex polymeric molecule's

conformational characteristics will more efficiently lead to constructing new synthetic compounds.

"It's basically a study of the configurational properties of the molecules in solution," Tobiason explained. "We look at how they are shaped and coiled. These phenolics are highly polar. By seeing this configuration of the molecules, it makes it easier to understand how it works for building blocks of larger chains."

Tobiason received a Ph.D. in chemistry from Michigan State University in East Lansing in 1963 before doing post-doctoral work at Atlanta's Emory University and Moving Corporation in Waynesboro, VA, in 1965. Tobiason came back to PLU to teach in the chemistry department in 1966.



Fred Tobiason, professor of Chemistry

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Students, faculty receive research grants

by Clayton Cowll
Mast staff reporter

A \$15,000 grant from the Cottrell College Science Grant Program awarded to PLU biology professor Michele Crayton and his research project in colonial green algae is just one reason why the Pacific Lutheran biology department may be entering a new era of active research on campus.

The grant was only one of several fiscal awards given to the university this year for undergraduate research conducted during the school year and over the summer months.

"It's a neat opportunity for the people who work in a lab because it's a chance for them to work on publishable research—not just a project," Crayton noted.

Crayton will be examining the green alga *Volvox*, an organism that forms a hollow ball during reproduction. He will be examining the material that holds

this blastula or ball together and predicting how it will affect the cells around it.

The PLU biologist will be testing a *Volvox* mutant donated by Robert J. Huskie of the University of Kentucky en route to understanding the structural characteristics of the adhesive material.

PLU biology professor Arthur Gee is directing a team of researchers at the Battelle Northwest Laboratories to conduct a series of projects on cancer research after receiving two summer fellowships from the Northwest College and University Association for Science (NORCUS).

NORCUS is also funding \$9,100 for a current research project being conducted by Joe Upton, Laurel Oleser and

Richard Yip in the biology department. Biology students John Batker, Susan Searl, John Upton, Erika Mortenson, and John Lindbo each received summer student fellowships from NORCUS to work at the organization's Hanford research facility in Richland on projects similar to those being carried out at PLU.

"The biology department in definitely going to become more active and more visible," Crayton insisted. "Everybody (in the department) has been talking about certain projects they want to work on and we have good students to do the work—if they have a little reimbursement."

Modest prof explores molecular collision

by Becky Kramer
Mast reporter

Although Kwong-Tin Tang's research in atomic molecular collisions is recognized internationally, Tang said he thinks of himself primarily as a teacher.

Tang, a physics professor at PLU, considers his research an integral part of his teaching. The research transmits his own curiosity and desire to learn to his students, Tang said. "I don't know how it transmits but somehow it rubs off."

"Dr. Tang is, outside of the university, the most well-known physicist in the department," said Harry Adams, chair of the physics department. "He's also a very good teacher."

"He's very famous in the physics world, but he's very modest," said Mark Bowers, a graduate student at the University of California/Riverside, who came to PLU to complete a Ph.D. under Tang. Bowers is also studying atomic molecular collisions. "I feel very fortunate that I am able to work with him," Bowers said.

Tang was invited to write a chapter in a four volume series entitled *The Theory of Chemical Reaction Dynamics*, which Tang said contained selections from leading scientists in this field. When asked if he was considered a leading scientist in this field, Tang looked uncomfortable. "It's difficult to say, myself."

Tang and Peter Toennies, a co-worker at the Marx-Planck Institut für Stromungsforschung have their name on a model called "Tang and Toennies' Potential." "A name is just to identify something," Tang said. "It's nothing to brag about."

"The atomic potential is a description of forces between atoms and molecules. The model is a theoretical explanation about these forces," Tang said.

"I see my calling as a teacher. If a student walks in the door, I drop everything else," said Tang, who added that he is here because of the students and not the other way around.

He does not have enough time to research because for research, "no amount of time is sufficient," he explained.

Tang said his research work comes from a desire to learn more and satisfy his curiosity.

"And once you find a problem that you don't understand and no one else understands, you hope to understand it first," he said.

"To be frank, I wish I had more time to research," said Tang who teaches full-time and has over 100 students this semester. "We all teach full-time here."

Being hired as a professor and not a researcher does have an advantage for Tang. He said he is under no pressure or obligation to do research, but researches because he enjoys it.

Tang has given talks on his research all over the world, in Canada, England, Norway, China, Taiwan, Hong Kong, and Germany.

"People are interested in your work, and they want you to come so you can discuss it in person with them," Tang said, who is planning to spend the summer in Germany.

Tang's visit to Chengdu University in China two years ago was instrumental in setting up the science exchange program between PLU and Chengdu University.

When a delegation of six officials from Chengdu came to Washington to visit the University of Washington and Washington State University, they remembered that a PLU professor had given lectures at their university and they wanted to visit PLU.

The delegation was impressed with PLU and an exchange program was suggested.

Tang's research is funded by grants from the National Science Foundation and other research corporations. "First you must have a good idea," Tang said. After developing an idea, Tang sends a proposal to the Foundation outlining the experiment and how much it will cost. If the Foundation likes the idea, they send him the grant.

"I'm a theoretician. Mostly I need paper and pencil and computer," Tang said. Most of the money he asks for is to pay students who work with him. Part of Bowers' salary is paid for by research grants, said Tang.

Tang's research room in the Rieke Science Center is different than a typical research lab. Instead of Bunsen burners, test tubes and the odor of chemicals, Tang's lab contains a computer and stacks of paper.

As a theoretician, Tang formulates theories to account for phenomena. While Tang does not actually perform experiments himself, he said, "I must have close contact with people who do experiments. I have to understand the experiments."

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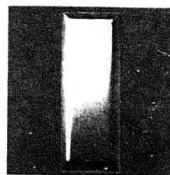
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Confrontation results in knife assault

Campus Calendar

by Katherine Hedland
Mast staff reporter

A male PLU student was slashed in the hand during a fight with three male non-PLU students in the library parking lot Saturday night, said Dan Acker, one of the students involved.

Acker said the incident began when the three youths were disrupting students in Mortvedt library. After exchanging words and obscenities with Acker and his friend John (who requested that his last name be withheld), the three challenged Acker and John to a fight.

The PLU students accepted the challenge and went outside to the parking lot between the library and the Administration Building.

A fight erupted and two of the youths pulled out knives. After John's hand was slashed by one of the youths, Acker and John decided that they did not want to fight and walked away.

Acker and John walked towards the library, assuming that the others had gone, Acker said. Suddenly one of the glass doors in the entrance of the library was shattered with a rock, Acker explained. The two PLU students turned to see the three youths running away, and immediately called Campus Safety.

Ron Garrett, Campus Safety director, said campus safety officers searched the campus but could not find anyone.

Pierce County Sheriff's deputies arrived an hour after the incident but also uncovered nothing, Garrett said.

John said his hand did not require stitches but was "not just a scratch."

According to Garrett, all three youths, who were apparently high school age, were wearing denim jackets with fleece linings. Each had dark, shoulder-length hair and was approximately 5 feet, nine inches tall, weighing between 140 and 160 pounds.

FRIDAY, April 11

Campus Ministry call committee; 7 am, UC 214
Music Committee meeting; 8 am, UC 210
Education meeting; 9 am, UC 128
Morning Praise; 10 am, Trinity Lutheran
Maintenance meeting; 11 am, UC 128
Nursing Seminar; 11 am, UC 214
Brown Bag Seminar: "Women and Unions: Case of France and Canada;" noon, UC 206A
Workshop: "How to find a summer job;" 3 pm, UC Regency Room
Baseball vs. WSU; 3 pm, Baseball Field
Faculty Assembly; 4 pm, Leraas Lecture Hall
Artist Series: Anna Wyman Dance Company; 8 pm, Eastvold Aud.
Kreidler all-campus Pajama Dance; 10 pm, Kreidler Hall

SATURDAY, April 12

Wrestling tournament; 7 am, Memorial Gym
Wheelchair sports meet; 8:30 am, Olson Aud.
Men's Tennis vs. U. of Portland; 10 am, courts
Baseball vs. Pacific; 1 pm, Baseball Field
Women's Tennis vs. Lewis and Clark; 2 pm, courts
Beta Gamma Sigma Banquet; 5 pm, UC Coffee Shop
Mu Phi Epsilon dance; 10 pm, UC Commons

SUNDAY, April 13

University Congregation; 9 am and 11 am, Chris Knutzen Hall
University Congregation fellowship; 10 am, UC 206A
RLO selections; 11 am, UC and Ad. Building
Brian Steves Student Recital; 3 pm, Chris Knutzen Hall
Mayfest practice; 5 pm, Memorial Gym
University Call Committee; 5 pm, UC 132
David Sannerud Student recital; 5:30 pm, Chris Knutzen Hall
Fellowship of Christian Athletes; 6 pm, UC 206
Intervarsity Christian Fellowship; 7 pm, UC 214
Student recital; 8 pm, Chris Knutzen Hall

University Band Concert, 8 pm, Eastvold Aud.
University Congregation; 9 pm, Tower chapel

MONDAY, April 14

Cheerleader tryouts; 7 am, Olson Balcony
Morning Praise; 10 am, Trinity Lutheran
Aura assessment; 10:30 am, UC 210
Dr. Rieke Luncheon; 11:30 am, UC Washington Room
Hall Director selection; 1 pm, UC 130
Student Health Advisory committee; 3 pm, UC 210
Interim Committee; 4 pm, UC 214
Worship Commission, 5:30 pm, UC 210
AMA meeting; 7 pm, UC 206A
Peer Review 7 pm, UC 128

TUESDAY, April 15

Alpine Club; 5 pm, UC 214
Delta Iota Chi; 5 pm, 5 pm, UC 132
Outdoor Rec Meeting; 6 pm, UC 210
Cheerleaders tryouts; 7 pm, Olson Balcony
Messenger Campus Fellowship; 7:30 pm, UC 132
University Band Concert

WEDNESDAY, April 16

Morning Praise; 10 am, Trinity Lutheran
Baseball vs. Pacific; 3 pm, Baseball Field
University Call Committee; 5 pm, UC 132
Maranatha; 6 pm, UC 214
Episcopal Students; 8 pm, UC 210
Mayfest practice; 9 pm, Memorial Gym
Rejoice; 9:30 pm, CC

THURSDAY, April 17

Indian Awareness Day Reception; 2 pm, UC Regency Room
ASPLU Senate meeting; 6:30 pm, UC 206A
History Club Lecture: "George Washington, the Man and the Myth; 7:30 pm, Ingram 100
Evening of Contemporary Music; 8 pm, Chris Knutzen Hall

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Sports

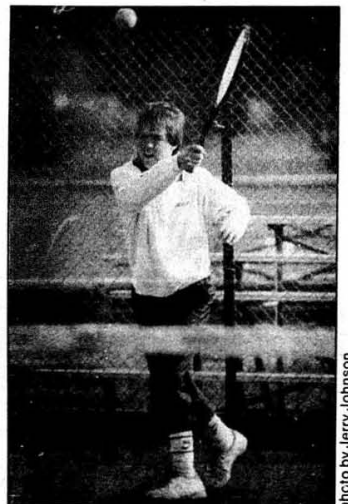


photo by Jerry Johnson

Tom Peterson illustrates his style earlier this week during practice. Having won six straight challenge matches during his climb to the top, Peterson is back and going strong after a two year absence. He will be playing the no. 1 position in tomorrow's match against the University of Portland.

Peterson 'comeback player of the year'

by Jerry Johnson
Special to the Mast

After a two year absence from the Lute tennis courts, Tom Peterson is again making his presence known throughout Pacific Lutheran and beyond.

"It's been a tremendous boost to our team having Tom back," said men's Coach Mike Benson. "It's like we have a brand new player from nowhere."

In the process of climbing from the number twelve position, at the beginning of PLU's tennis practices, to his current number one ranking, Peterson has not only fulfilled some personal goals, but set some records in the process.

"I decided at the beginning of the season, that even if I had to lob every ball over the net to win, I'd do it if that's what it would take," Peterson said.

Even though he hasn't resorted to that style of play, his philosophy of winning has held true, especially among his teammates. Peterson has won six straight challenge matches during his climb to the top, a new record for consecutive wins while challenging up the ladder.

"Tommy is hitting the ball very well," Benson said. "It's good to have him back and doing so well. I have been hoping for the past two years we would see the Tom Peterson that we saw his freshman and sophomore years."

Peterson said it feels good to be back again and to be playing the number one position on a very talented team. "All six players on the traveling squad are very close, and, on any given day, any of them could play each other very competitively," Peterson said. "My goal this year was to play very competitive tennis and try to be number one."

He is not a stranger to playing high ranking positions on the team, having held fifth place his freshman year and first through fourth positions his sophomore year.

"There is no doubt that Tom is the unanimous comeback player of the year," Benson said.

Currently a fifth-year education major, Peterson hopes to use his tennis background to coach while teaching high school somewhere in the Northwest.

During his junior year at PLU, Peterson coached Spanaway Lake's boys and girls tennis teams.

"I felt it would give me some good coaching experience that I can use after I begin teaching," Peterson said.

During the team's recent trip to Arizona and California during spring break, Peterson, ranked number two at the time, played well, turning in a 2-4 record with all of his losses coming from highly ranked schools.

He said, "The University of Arizona and West Texas State were really tough. They make the University of Washington not seem as tough as they used to."

During the regular season, Peterson has an overall record of 9-7, with three of the losses coming from NCAA teams.

Peterson describes his style of play as a serve and volley game. His serve kicks hard off the ground, which he prefers to serve to his opponent's backhand. The high kick makes the serve difficult to return.

Relying on his strong serve and powerful top-spin forehand, Peterson moves his opponents around so he can set up easy volleys. He said that his style works well most of the time, but some matches he still misses some easy shots he should be making. "I guess that will happen sometimes," he said.

Peterson's decision to come to PLU was based on the quality of education the school had to offer and also the tennis program.

"Mike Benson is a super coach who really gets along with his players," Peterson said. "He is the reason that PLU has attracted the players it has, and enabled PLU to have the tennis 'dynasty,' if you will, that has existed over the years."

Peterson cited Benson's main goal for the team "is for us to have fun while playing, which helps us to play better."

During the six months following the end of this school year, Peterson, along with four other players on PLU's team, will be going to Bavaria in the southern part of West Germany to be tennis pro at various clubs.

Peterson said, "If we go to nationals during finals week, I will get back in time to graduate and then leave two days later for Germany. That's not much time."

Tomorrow, the tennis team will take on the University of Portland at home.

"We are looking forward to playing at home," said Peterson, "but we have to play well."

We played Portland earlier this season and won, but we had a close match."

Lutes cap Sterling finish; eye today's Cougar clash

by Clayton Cowi
Mast staff reporter

It's one thing to feel lonely at baseball games on the road, but what does a team do when they are visitors on their home field?

The PLU varsity baseball squad didn't seem to have many problems as the Lutes hammered 14 hits and freshman pitcher Sterling Stock held the Chiefs to three hits en route to a 14-2 shellacking of Seattle University last Wednesday night.

The NAIA game, scheduled to be played in Tacoma's Cheney Stadium, was moved to the PLU diamond after Cheney Stadium officials notified the schools that the field surface would not be ready in time for the collegiate baseball clash.

The stadium is the home for the Pacific Northwest League's Tacoma Tigers, a farm club of Major League Baseball's Oakland Athletics.

Tim Engman pounded four hits for PLU in five at-bats and pocketed three RBI's, and teammate Todd Ellis had three runs batted in of his own, two on

an eighth inning triple. Ellis went 2 for 4 on the night.

The Lutes scored a pair of runs in the opening inning and never looked back as they took a 8-0 lead after five frames.

"It was a good win for us. It gives us good momentum going into conference games," said senior pitcher Dan Anderson.

Stock hurled his first complete collegiate game after transferring from Walla Walla Community College. He started at quarterback in the football program but had limited baseball experience before coming to PLU and sporting a 1.99 ERA.

The Lutes get one last shot at Washington State as the Cougars come to town tonight for a 3 p.m. dogfight.

PLU, now 8-9 on the year, dropped games 16-2, 2-1 and 9-1 to the Cougars in Pullman during spring break.

"After what we saw at spring break, it's obvious they're a real solid team," added Anderson, a possible starter in tonight's clash.

"Being at home and a non-conference game, we're got nothing to lose," Anderson said.



photo by Dan Sorgen

Field general Terry Jenks (Above) will be leading the Lutes to battle against the Pac-10 powerhouse Cougars of Washington State today at 3 p.m.

Student coaches add dimension to kids' lives

by Denise Bruce
Mast reporter

It's 3 o'clock on a typical afternoon. Many PLU students are done with classes and are taking a break by going shopping, playing softball, throwing around a Frisbee, or catching some rays with friends.

Many other PLU students can be found decorated with whistles and stop-watches on the fields or in the gyms of local high schools.

PLU students with an interest in sports and a desire to work with kids are filling both paid and volunteer high school coaching positions.

Bryan Stelling, hall director in Ivy, spends his afternoons as assistant softball coach at Curtis High School where he also student-teaches history and business math.

His responsibilities include setting up equipment, running skill drills and hitting practice and working with individuals on different aspects of the game.

"Sports build character—being a part of that is really fun," Stelling said. "The exercise, competition and teamwork excites me."

Stelling believes that his attitude, enthusiasm, and intensity make him a good coach. He says his approachability and people orientation make others feel comfortable around him.

"I'm the kind that can relate to the players really well," Stelling said.

Coaches have a lot of influence on kids' lives, even more than most teachers, Stelling said. The kids can relate to athletics and enjoy them, Stelling said. This allows a really good rapport between coach and player.

Stelling uses this influence to build "character, a sense of teamwork, and pride in themselves and their team," not to mention a "positive attitude that carries through in all aspects of life."

The coaching experience Stelling is getting should prove valuable to him in the future, as he plans to coach football while teaching social studies or psychology at the high school level.

While Stelling hits and throws to Curtis athletes, other PLU students demonstrate kicking, pitching, jumping, and hurdling to athletes across town.

At Franklin Pierce High School, four such students, Barb Sharts, Tim Shunnon, Dean Stainbrook, and Rich Sweun, offer their expertise in various track and field events.

Sharts has coached track for the past three years, and also coached basketball earlier this year at Franklin Pierce.

She primarily coaches the long and triple jumps, which she also competes in for PLU. This, along with the fact that she actually runs along with her athletes during workouts, makes Sharts a role model for the athletes.

Sharts, who has coached jumpers to the state championship meet, says she gained a lot of her coaching knowledge from a former coach at her alma mater, Franklin Pierce.

She works hard to improve her coaching techniques by attending coaching clinics, reading books, observing other coaches, and trying out different things to see what works with her particular group of athletes.

Coaching is a unique opportunity because you get to be at a real one-on-one level where there is a lot of mutual respect, Sharts says. "Kids have told me stuff they wouldn't tell their parents or even their best friends," Sharts added.

Sharts describes her role as "directing already established talent." She tries to develop their sense of responsibility, dedication, and sense of purpose. However, Sharts says there are always "kids who skip practice because they had a tanning date."

The student-coaches at Franklin Pierce try to make track a fun experience for the athletes.

"After workouts is fun time," Sharts says. She said they often have water fights, go special places to run or have team get-togethers such as picnics. Last year, in the team's annual "Crazy Olympics," the coaches allowed themselves to pose as targets for the egg-toss competition.

High school head coaches and athletes both point out the valuable contribution that PLU student-coaches give to the athletic programs they are involved in.

Franklin Pierce Head Track Coach Howard Lutton, a PLU track and football alumnus, says they "add a dimension that a teacher can't."

He added that their age, proximity and ability to perform athletically gives them respect from the high school students, and a better relationship in which to communicate.

Franklin Pierce senior Debbie Cook, who is coached by Shannon in discuss and shot-put events, says, "He's closer

to our age—he talks to us on our own level."

Although some coaching positions are volunteer, many PLU students get paid for their efforts.

Stelling, who volunteers, says schools need people. "It's rewarding, even though pay is not involved. I'd recommend it to anybody if they like kids and like sports."

The experience that Stelling, Sharts, Shannon, Stainbrook, and many other PLU students receive by coaching high school sports will prove to be valuable, as many of them plan to coach in the future.



photo by Dean Stainbrook

PLU student-coach Rich Sweun and Franklin Pierce hurdler Janelle Stussy pose at a recent high school track meet. Sweun is one of many PLU students coaching high school athletics.

Young players shine for PLU women's tennis team

by Robynn Rockstad
Mast reporter

After consistently doing battle with the top six players, the Pacific Lutheran women's tennis team had some new faces in court competition last weekend against Whitman, Willamette and Bellevue Community College.

The lady Lutes ended up losing to Whitman 5-4 on Saturday, but later defeated Willamette 7-2.

Monday, the team trounced Bellevue C.C. 9-10, in a lopsided affair.

Coach Stacia Marshall decided to give court time to the second half of her 12-unit team who does not usually see action.

This was done to give them experience playing in the top positions. With six seniors on the team, Marshall says she needs to build for next year.

Jane Elliot, who never played in the top six before, said she feels that getting to play in these matches has sparked her enthusiasm about playing on the team and also improved her confidence.

"Since I'm a freshman, being able to play in matches helps me to see what it's like playing against a college team," said Elliot.

Marshall said that Whitman, Willamette and Bellevue C.C. all lack the depth PLU netters possess. Though they lost a close match to Whitman with only half of the top six netters playing, Marshall did not take it as a disappointment.

"The win-loss record doesn't matter as far as conference or district, which are separate matches in themselves," said Marshall. "I'll play the top six when I know they'll need to play."

The top six on the squad usually includes junior Carolyn Carlson, senior Tanya Jang, freshman Alise Larsen, senior Pollyann Brynstad, senior Chris Dickenson, and senior Jolene Murphy. Winning matches against Whitman

were Jang and Brynstad in singles and the combinations of Carlson/Jang and Brynstad/Elliott in doubles.

With just two of the top six playing against Willamette, Dickenson, Murphy, junior Paula Lindquist, junior Cyn-di Manly, sophomore Kari Graves and freshman Kristi Bethel won their singles matches. Manly and Lindquist were the lone pair to win doubles.

PLU won all singles and doubles matches against Bellevue C.C.

After "hitting a lot of balls" during their solid week of competition in Phoenix, Marshall says her team is developing a "tournament tough attitude."

The doubles pairs of Murphy/Dickenson and Lindquist/Carlson paired up to win both doubles matches.

Besides playing good matches, Coach Marshall has noticed an improvement in the women's mental toughness and attitude.

After "hitting a lot of balls" during their solid week of competition in Phoenix, Marshall says her team is developing a "tournament tough attitude."

"It's when you can walk out onto the court with confidence from knowing you've played a lot of good matches," Marshall said.

Co-captain Tanya Jang says the team is "so much tougher than when we started off."

Hoping for a team trip to nationals, Jang added, "We're right on schedule and if we pull through for each other, I think we can make it, as a team."



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Track team focuses on tomorrow's Western Invitational competition

by David Wood
Mast reporter

Looking at the team scores from last weeks Western Washington Quadrangular Meet, one might get the feeling that the Lutes were still on spring vacation. Final score: Western Washington 162½, Simon Fraser 99½, Seattle Pacific 63, and P.L.U. 57.

The score can sometimes be deceiving and this one is no exception.

Coach Moore explains:

"The team score is deceptive because we put our people in off events to get ready for this Saturday's very important meet up in Bellingham."

The team was not at peak performance, however, "there were many good performances and personal records set."

In fact, twelve personal records were bettered, along with seven district qualifications and three reservations for the national championships to be held next month in Arkansas.

Getting ready for this Saturday's meet, however, was a big reason for last weeks competition.

The Western Washington Invitational is probably the biggest meet of the year and is the most important event left in the Lutes regular season schedule, Moore said.

After this weekend only two meets separate the present from post season competition.

"Everyone's thinking qualification, because after Saturday, there are only two dual meets left," Moore said. "This will be an good opportunity, because the excellent competition will bring out the best in our athletes."

The lineup will include all of the NAIA District 1 schools, the University of Washington and two Oregon colleges outside District 1 will also be competing.

For those who have already qualified for the national tournament, Saturday's meet will provide a look at many of the athletes the Lute tracksters will be battling in post season action.

For the promising athletes who have yet to qualify, this may be their last bid for a national championship birth.

One of those athletes is Kathy Nichols, who has already qualified in the 5000 meters, but wants a spot in the 3000 as well.

Nichols goal all year has been to "run a sub 10" (minute) 3000 and she added that this "will be the meet to do it."

"A lot of people haven't qualified yet, so it's important to do it now while the competition's so good," said Nichols.

Nichols added that the competition this Saturday will be of stronger caliber than what the conference meet will have to offer and "with only two small meets left, this may be our last chance."

Joining Nichols in the quest for a 3000 meter qualification will be Dana Stamper and Melanie Venekamp.

"A lot of people haven't qualified yet, so it is important to do it now while the competition is so good."

— Runner Kathy Nichols

The men's team has two quality distance specialists in Doug Grider and Allan Giesen who will be making a qualifying attempt in the 5000 meter scamper.

Tim Shannon, if eligible, will compete in the hammer throw in his attempt to qualify for the national meet.

Coach Moore believes the Western Invitational is a vitally important meet, if last year's trip north is any indication.

"Last year, this was an excellent meet and was pivotal for many of our athletes," said Moore.

"Russ Cole, for example, dropped two seconds off his 800 meter time and we expect the same kind of results this year."

Sports scoreboard

TENNIS

Women's

Last Week (April 4-9)

Lady Lutes, 12-6, split in four matches. Games went PLU 9, Seattle U 0; U of Portland 6, PLU 3; Whitman 5, PLU 3; and PLU 7, Willamette 2.

PLU Season Singles Standings

Carolyn Carlson, Junior.....	8-6
Tanya Jang, Senior.....	8-6
Alise Larsen, Freshman.....	10-3
Pollyann Brynstad, Senior.....	9-4
Chris Dickinsen, Senior.....	10-4
Joiene Murphy, Senior.....	14-1

PLU Season Doubles Standings

Dickinsen-Murphy.....	5-9
Larsen-Brynstad.....	9-3
Carlson-Jang.....	13-0

Coming Up

The lady netters will be hosting Linfield today at 2:30 p.m. and Lewis & Clark Saturday at 2 p.m.

Men's

Last Week (April 4-9)

The Lutes triumphed on two of three engagements. PLU 8, Seattle U 1; Whitman 6, PLU 3; PLU 9, Whitworth 0.

PLU Season Singles Standings

Tom Peterson, Senior.....	9-7
Ranfall Stradling, Sophomore.....	7-8
Jeff Allen, Junior.....	7-7
Jonathan Schultz, Freshman.....	8-7
Paul Koessler, Senior.....	11-3
Jay Struss, Senior.....	9-2

PLU Season Doubles Standings

Stradling-Koessler.....	9-5
Peterson-Schultz.....	7-6
Allen-Struss.....	7-2

Coming Up

The men's tennis team will be playing the University of Portland at PLU Saturday at 10 a.m.

CREW

Last Week (April 5th)

PLU won three races, had four

seconds, and three thirds at the Dalroo Regatta. Winners: Men's heavy four, 5:38 (2000 meters); Men's frosh four, 6:48.9; Women's light four, 7:18.5.

Coming Up

The PLU rowing club will be travelling to Oregon to compete in the Corvallis invitational Saturday.

GOLF

Last Week (April 3-7)

Lutes finished three strokes behind Lewis & Clark in Thursday's Chapman tournament at Tumwater. PLU opened Northwest Small college Calisic play Friday at Brookdate, with Todd Gilford and Tom Saathoff finishing with a tally of 77.

BASEBALL

Last Week (April 4-8)

Lutes, 7-9, 2-1 in conference play, 5-3 in NAIA action, won four of six games. PLU 11, Central Washington 7; PLU 9, Central Washington 3; Lewis-Clark St. 12, PLU 0; PLU 17, Whitman 2; PLU 6, Whitman 0; Whitman 9, PLU 4.

Coming Up

The Lute baseballers will be hosting Washington State University today at 3 p.m. They will continue play Saturday, playing in a doubleheader against Pacific at 1 p.m.

SOFTBALL

Last Week (April 5-8)

Lady Lutes 16-2-1 overall, 2-2 in conference, 4-2 in district, won three of five games in past week. Games: PLU 1, Puget Sound 0; PLU 7, Lewis & Clark 0; PLU 10, Lewis & Clark 0; Linfield 1, PLU 0; Linfield 1, PLU 0.

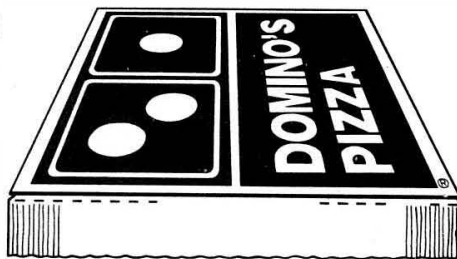
TRACK

Coming up

The PLU tracksters will be competing in the prestigious Western Invitational Saturday.

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Lute rowing club blossoms at Daffodil regatta

by Robynn Rockstad
Mast reporter

The Pacific Lutheran crew team began their spring racing season Saturday on American Lake by pulling in three wins at the annual Daffodil Regatta.

PLU, with an entry in every event, took first place honors in the men's heavy and novice four boats and the women's light four.

On the 2000 meter course, the Lutes matched strokes with rowing teams from Washington State, Western, Gonzaga, Seattle Pacific, and the University of Puget Sound.

Overall, WSU was the regatta victor with seven first places.

The first win of the day for PLU came from a boat whose members had never rowed together (except in the morning's pre-race warmups).

Sophomore Paul Stordahl, junior Matt Hensel, senior Jeff Glenn, senior Roif Agather, and sophomore coxswain Pam Drew made up the men's heavy four.

Leading the entire race, they defeated second-place Western by three seconds with a clocking of 6:38.

Coach Bob Trondsen said he "expected the heavy four boat to do well."

Both the light and heavy eight boats finished back in the pack and "have work to do," said Trondsen.

The lone win for the women came in the light four, composed of sophomore Susan Donovan, sophomore Kim Apker, junior Kim Stender, senior Cari Martin, and junior coxswain Jana Paterson.

Although the lady rowers led most of the way, Western stayed at even pace with them, threatening until the very last stroke.

The boat's winning time was 7:18.5, covering the 2000 meter course.

"By the time the finish came, we weren't sure who had won," Martin said.

Women's Coach Elise Lindborg singled out Donovan, saying she'd did a nice job filling in for commodore Robyn Rockstad, who has tendonitis in her wrist.

PLU captured one more win in the final rowing campaign of the day. They beat out second-place Gonzaga by nine seconds, the men's novice four was powered by junior Dave Komaneky, junior Jim Johnson, sophomore Paul Roland, freshman Eric Hanson, and sophomore coxswain Stephanie Buckley.

Their win (6:48) did not come as a surprise to Trondsen, who was optimistic about the boat's chances.

The men's coach said he is looking forward to the upcoming regattas which will allow the Lutes to compete in more races.

"We'll be party to a bigger regatta, with more events in Corvallis," Trondsen said, referring to tomorrow's Corvallis Invitational regatta against Oregon crews on the Willamette river.

Lindborg was pleased to compete against teams that have many talented rowers, unlike last weekend's Greenlake

regatta.

"We finally had some competition," Lindborg said. "It will make everyone set some goals and work harder next time."

Lute rowers also took second place in the men's junior varsity four, junior varsity eight, varsity eight, and women's varsity eight.

Third place finishes went to the women's light eight, varsity four, and junior varsity four.



The PLU women's lightweight-four shell, consisting of (Above L-R) Robynn Rockstad, Kim Stenden, Kim Apker, Cari Martin and coxswain Jana Paterson were 1986 West Coast Champions and will be pulling for the title this year as well.

15-3 softballers get no-hitter from Schmitt

by Carol Zilzewitz
Mast reporter

The PLU Women's Softball team boasts a 17-2 record this season and is 5-3 in NAIA District 1 games.

Over halfway through the season, the lady Lutes suffered their first losses last weekend in two great defensive bouts at Linfield.

The team faced Lewis & Clark for a double header on Saturday, winning the first game 7-0. Pitcher Sharon Schmitt threw a no hitter while Dawn Woodward and Andy Barbier each went 2 for 2.

Machelle Chalstrim lead the 10-0 at-

tack on the Pioneers, allowing only three hits through seven innings.

Travelling to McMinnville to face the Wildcats, the Lutes did not come out on the winning end of either game in the double header. Both games were defensive bouts lost in extra innings, 1-0.

The first game was once again thrown by Schmitt, who tossed a no hitter through the seventh inning.

"That doesn't happen very often," said softball coach Ralph Weekly.

With a combined total of 22 hits, PLU lost on two Wildcat walks and hits to bring the sole run across the plate.

The second game against Linfield

followed the same scenario. With Chalstrim pitching, the Cats scored once again on a series of walks and hits in the eighth inning.

We kept hitting right at them, Weekly said.

The lady Lutes returned to face their cross town rival UPS on Tuesday. In a double header split, the Lutes brought their season record to 3-1 against UPS.

PLU lost the first game 3-0 behind the pitching of Chalstrim. UPS did not score until the seventh and final inning.

In the second game the Lutes came out on top, 4-1 behind the pitching of Schmitt.

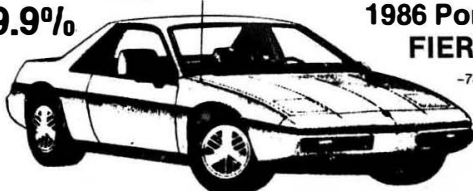
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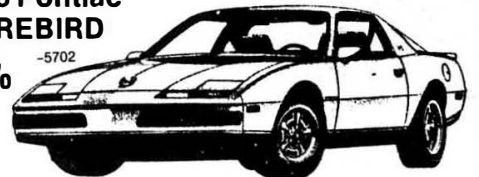
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