



UNIVERSITY OF OREGON  
HEALTH SCIENCES CENTER

# NEWS

*Health Sciences Center News is published by the University of Oregon Health Sciences Center to inform students, employees, faculty and friends of the institution of programs, activities and events of interest to them.*

## Students take close-up look at the world of dentistry

The nearly ninety students who attended the tenth annual Junior Dentists Institute, July 18-23, heard lectures on everything from head and neck anatomy to concepts of dental disease and how to go about getting admitted to dental school.

High school and college students considering a career in dentistry or dental hygiene came to the week-long institute from as far away as Arizona.

"Not only do the students benefit from the program, but we are attracting some highly qualified young people to the health professions in general," commented JDI director Dr. Jack Clinton, associate professor of dentistry.

"In addition, we are promoting the idea of good oral health, and we are positively influencing the opinion leaders of tomorrow, even if they do not choose a health profession career."

*Taking turns examining each other's teeth, students at the institute learned how to spot common problems in oral hygiene.*



## Round and round

Horse-Around-for-Kids, a merry-go-round marathon at Jantzen Beach Center, began August 20.

The marathon's goal of \$10,000 will be shared by the HSC Crippled Children's Division and Children's Orthopedic Hospital, Seattle. Among participants in the marathon were student teams from the HSC. In 1973, a merry-go-round marathon record of 192 hours was established at Jantzen Beach.

## Sanders will keep lines open with housekeeping staff



Her job is a "big challenge which I'm happy to take on" said Rosemary Sanders, University Hospital's new director of housekeeping services.

Ms. Sanders began duties Aug. 2. She replaces Maxine Freeman, executive housekeeper, who retired July 31 after 20 years of service.

"I enjoy people and am anxious to be with the housekeeping staff," Ms. Sanders said.

"One of the things we will stress is good communications. There will be meetings, both day and night, to explain what we want each staff member to accomplish and why."

As part of this communications effort she will visit as many of 150 housekeeping staff members on the job as possible.

Guy Mount, Jr., assistant administra-

tor, University Hospital, said Ms. Sanders was one of 20 interviewed for the post which was advertised nationally. Interviewing began in January.

*Mr. Mount said the housekeeping department will make a deliberate effort to increase staff participation in planning and improvement of services. He emphasized the importance of departmental morale.*

A search committee which included Mr. Mount; John Hutchins, administrator, University clinics; Ardys Hokeness, assistant director, nursing services; Mark Scott, director, surgical services; and Newell Miles, personnel officer, selected eight finalists and assisted Mr. Mount in interviews.

"She had the experience, background, and personality we were looking for," he said.

A native of Los Angeles, Ms. Sanders is a 1967 bachelor of science degree in humanities graduate of Bob Jones Uni-

versity, Greenville, South Carolina.

She comes to the HSC after serving as executive housekeeper at St. Joseph Community Hospital, Vancouver, Washington, since 1974. Prior to that she was housekeeping coordinator at St. Vincent Hospital and Medical Center, Portland.

Her background includes positions at the Hospital for the University of Pennsylvania and Pennsylvania Lumbermen's Mutual Insurance Co., both in Philadelphia; the International Atomic Energy Agency, Vienna, Austria; and United States National Bank of Oregon, Portland.

Mr. Mount said the housekeeping department will make a deliberate effort to increase staff participation in planning and improvement of services.

He emphasized that "Morale of the department is very important. We intend to have good orientation and job training programs in order to provide employee satisfaction and effective housekeeping service to the Hospital and clinics."

**ROSEMARY SANDERS**  
executive housekeeper

# Ringling in the ears — a little understood malady

*Tinnitus may strike without warning. Sufferers of this disease may endure the rest of their lives listening to ringing or buzzing sounds. HSC scientists are among the few studying this disease.*

Imagine spending the rest of your life listening to a never-ending roaring, clicking, screeching, or buzzing sound in your ears. It would be more than most of us could bear; but for sufferers of severe tinnitus, or ringing in the ears, this condition is an inescapable reality—unless medical research uncovers relief.

Tinnitus is probably one of the oldest and yet most neglected maladies that affects the ear of man. HSC scientists say it is so common that it probably exists in a mild form in almost all ears, especially ears that are around 45 years of age and older.

Tinnitus may strike without warning. Some of the most severe sufferers simply woke up one morning with tinnitus and have had it ever since.

A National Institutes of Health survey indicates that as many as 36 million Americans have some degree of tinnitus. For 7.2 million of these sufferers, the tinnitus is so severe as to be debilitating.

"A number of people have committed suicide as a result of tinnitus," revealed one HSC researcher. "Persons with severe tinnitus use up every speck of reserve energy they have. They may appear cold, indifferent, or short-tempered because they're fighting this debilitation all the time."

Although scientists do not know what causes specific cases of tinnitus, they do know that its incidence is on the increase. It often accompanies other hearing or ear problems, and these are on the increase due to rising noise levels and chemical and vascular insults.

Kresge Hearing Research Laboratory, located on campus, is one of two centers in the U.S. doing research on tinnitus.

Although the lab is currently involved in several research projects concerned with tinnitus, researchers describe their efforts as "groping and guessing" so far. The most promising outgrowth of



**Above:** This tiny experimental device is making life more bearable for a number of tinnitus sufferers seen in the HSC's weekly Tinnitus Clinic.

The device, known as a masker, replaces the disturbing sounds of tinnitus with gentler, more bearable tones. **Right:** Cats can suffer from tinnitus, too, as four-year-old Zinger proves. Zinger, who belongs to Jay Baker, HSC health service secretary, has such loud tinnitus that she actually gives off a tone audible to humans.

Kresge researchers found her case fascinating, but Zinger herself remains nonchalant, living a normal feline life.



their work has been the development of a small battery-powered device, known as a masker, which is worn in the same position as a behind-the-ear hearing aid.

Masking actively interferes with the tinnitus by deliberately introducing an additional tone and/or noise. The additional tone is tailor-made for each individual and masks his or her particular tinnitus while not interfering with ability to hear speech.

Kresge Lab began testing the first masker on a patient in February. The wearer, a petroleum distributor from Turner, Oregon, calls the new device "fantastic." It has replaced his tinnitus—which he likened to a telephone dial tone—with the gentle sound of splashing water. Ten patients now wear maskers.

Other researchers in the Kresge Lab are studying the cable-like units of the auditory nerve, which leads to the brain, as a possible trigger of tinnitus. When the ear is over-stimulated by sound, it responds to the overload by increased spontaneous activity. This ongoing activity may be related to tinnitus.

For patients whose tinnitus is so disabling that they request destruction of their inner ear—in hope of relief—Kresge researchers are devising a test to determine the feasibility of such a drastic measure.

In an effort to provide relief to more sufferers of the ailment, the otolaryngology department began a weekly

Tinnitus Clinic in March. Patients receive an otologic exam, audiometric work-up, and tinnitus work-up. Treatment will include the use of maskers, when possible, and hearing aids, which sometimes help relieve tinnitus. In addition, tinnitus sufferers, who are often ignorant about the nature of their ailment, will be able to air their questions before experts. Patients and their spouses will learn how tinnitus affects behavior and outlook, and they will learn of techniques providing relief for other sufferers.

Through the volunteer efforts of many who have joined at the HSC, the Oregon chapter of the California-based American Tinnitus Association has been formed. The ATA disseminates information on tinnitus and collects funds for research.

## Nice person selected

Bernice Setere, head nurse, 3NE, has been named August Nice Person of the Month, following a flood of letters of praise from her co-workers to the Courtesy Committee. Letters described her compassion, fairness, and personal warmth. Honorable mentions were Carlene Graham, Kathy Layton, Diane Meling, Dale Vaughan, Paula Weigel, and Dr. Rodger Slevin.

## Mammography machine spots cancer early

A new \$32,000 radiologic (X-ray) machine specifically for mammography, breast examination, is now in use in the HSC department of radiologic diagnosis under the direction of Dr. Marcia Bilbao, professor of radiologic diagnosis.

An average of about 39 women per month have had mammographic examinations at the HSC in the first six months of 1976, according to William Vermeere, radiation safety officer.

Mammography is a type of X-ray procedure that gives extraordinarily fine definition of the complex tissues of the human breast.

The American College of Radiology's commission on cancer has found it to be "the most effective diagnostic tool so far developed for the detection of breast cancer at an early stage before it spreads to regional lymph nodes."

The commission said "this early detection increases the probability of cure."

Cancer authorities predict that one out of 14 Americans will develop breast cancer at some time. It is the most common cause of death in women aged 40 to 44.

*Mammography allows physicians to detect breast cancer at an early, nonpalpable stage. At this stage, the cancer is also more readily curable.*

Cancer is the number two killer in the U.S., behind heart disease.

Mammography allows physicians to detect breast cancer at an early, nonpalpable stage. At this stage, the cancer is also more readily curable.

The mammography equipment at the HSC incorporates the Xerox process, which transfers to paper an image formed on a selenium plate. The results show tissue alterations, calcification and neoplastic changes in the breast.

Mr. Vermeere points out that only fully qualified radiologic technologists operate the mammography radiographic machine.

He adds, "We don't prescribe examinations for large groups of people to detect breast cancer. All of the people we examine are on recommendation of their doctor."

Men can also have breast cancer, Mr. Vermeere said. In Oregon 335 women and one man died of breast cancer in 1975. "It's not very common for a man to have breast cancer, but it can happen."

## HEALTH SCIENCES CENTER NEWS

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sex, age, religion, and mental  
or physical handicap.*

# Amateur golfing champion trades green for whites



Photo by Tim Marsh

With one brother an M.D. and both parents pharmacists, it doesn't seem out of step that Mary Budke would choose a career in medicine.

However, in choosing medicine, Miss Budke, who will enter the School of Medicine this fall, turned down the likelihood of a promising professional golf career.

She first picked up a golf club at age eight on a hunch by her father that she would enjoy the sport. His hunch was right, and then some.

Now, as a 22-year-old, her golfing experience is well known in Oregon and her name is familiar nationally as well as to golf enthusiasts in Great Britain, Argentina, and other countries.

As a high school student in Dayton, Oregon, Miss Budke competed on the boys' golf team. She won the girls' high school state golf individual title three straight years.

*Now, as a 22-year-old, Miss Budke is well known in Oregon, and her name is familiar nationally as well as to golf enthusiasts in Great Britain, Argentina, and other countries.*

In the summer of 1972, after her freshman year as a business major at Oregon State University, she made a decision in favor of medicine.

"I didn't care for business," she said. "I was exposed to some students in the pre-med program. It presented a challenge in that it's hard to get into medical school and the studies are difficult.

"Then I really looked into it. I realized I was extremely interested. My family background has something to do with it, and I've been greatly influenced by my brother (James, UOHSC School of Medicine, Class of 1966) and some of the experiences he related to me."

During the same summer she decided on medicine, her golfing game began to "fit together," Miss Budke said.

She won the U.S. Women's Amateur Golf Championship in St. Louis. Subsequently she was named to the three-member U.S. women's squad for the World Amateur Team Championship in

*After teeing off, golfer Mary Budke watches the ball's flight.*

Argentina. The U.S. team won the title over some 21 other teams from around the world.

The St. Louis victory earned what she describes as her greatest golfing thrill, being a member of the 1974 eight-woman amateur Curtis Cup team which played a contingent from Great Britain in San Francisco.

One newspaper sports writer describes Miss Budke's competitive nature in golf as an "unswerving concentration on her game and a curious killer instinct."

She replies that "I don't know if the 'killer instinct' is a good way to put it. I never think I have a match won. I've seen people come from far behind. I would like to win by as much as I can because I want to play every hole as well as I can."

This summer she won her fifth Oregon Amateur Golf Tournament and also the Pacific Northwest Golf Association championship. She played in the U.S. Women's Open in Springfield, Pennsylvania.

In her last tournament before medical school she took part in the U.S. Women's Amateur Tournament in Sacramento in August.

Her golfing will not end after this summer. She hopes to compete after her first and second years of medical school. But after that she expects to be too busy for much golf.

Then, according to one sports writer, Miss Budke will "begin learning to read symptoms like she reads tilted greens and perhaps eventually to handle a scalpel as deftly as she wields a five-iron." TIM MARSH

## Eastern Star donates

Twenty members of the Grand Chapter of the Oregon Order of the Eastern Star visited the Health Sciences Center in July.

The group recently gave the HSC \$28,490 for cancer research, bringing their total donations over the past six years to \$95,228.

On their July tour, Eastern Star members met with Dr. William Fletcher, professor of surgery and head of the division of surgical oncology.

## Accident victim undergoes unusual surgical procedure

Donald Wright, a 20-year-old Portlander who was struck down and paralyzed four years ago by a driver who ran a red light, underwent surgery July 29 at University Hospital.

In an unusual procedure designed to relieve muscle spasticity, Drs. Elmer Specht and John Hoppert, resident, injected phenol (carbolic acid) into nerves that activate Donald's calf and wrist muscles.

The injection has deadened the nerves and paralyzed the muscles for from four to six months, explained Dr. Specht, who is professor of orthopedics and rehabilitation.

After this trial period of paralysis, Donald will decide whether or not he wants physicians to perform permanent surgical removal of the nerves.

*In a procedure designed to relieve muscle spasticity, physicians injected carbolic acid into nerves in Donald's calf and wrist.*

This removal would result in permanent paralysis of wrist and calf muscles, a condition which Donald may find preferable to the spasticity he has experienced since his injury.

Dr. Specht explained that prior to

surgery, Donald's left wrist and hand were drawn down tautly. Because he was unable to flatten it, the hand was completely useless.

Similarly, Donald's calf muscle had twisted his foot so that it was difficult to step on securely.

As a result of surgery and rehabilitation in the physical therapy department, Donald may learn to walk more steadily on the impaired foot. His left hand should become more useful as a helper to his normal hand.

Donald's July operation at the Health Sciences Center was only one of a number of surgical procedures he has

undergone since brain and spinal cord damage suffered in the 1972 accident caused him to become helplessly paralyzed.

Earlier this year, hundreds of Oregon Journal readers and Radio KKEY listeners donated more than \$10,000 to send the youth to New York City for two operations.

There, surgeons at St. Barnabas Hospital implanted a battery-operated stimulator in Donald's back. As a result of this procedure, he regained the use of his limbs and was able to function without the pain he had experienced for nearly four years.

## Beauty shops, dance halls were off-limits to nineteenth century nurse

As any modern-day nurse will attest, nursing is an arduous and exacting profession.

But contemporary nurses who think their jobs are rough might count themselves lucky upon comparing their lot with that of nurses in the last century.

In 1887, the job description for bedside nurses in one American hospital was as follows:

1. Daily sweep and mop the floors of your ward, dust the patient's furniture and window sills.

2. Maintain an even temperature in

your ward by bringing in a scuttle of coal for the day's business.

3. Light is important to observe the patient's condition. Therefore, each day, fill the kerosene lamps, clean chimneys, and trim wicks. Wash the windows once a week.

4. The nurse's notes are important in aiding the physician's work. Make your pens carefully. You may whittle nibs to your individual taste.

5. Each nurse on day duty will report every day at 7 a.m. and leave at 8 p.m., except on the Sabbath on which day you

will be off from 12 noon to 2 p.m.

6. Graduate nurses in good standing with the director of nurses will be given an evening off each week for courting purposes, or two evenings a week if you are a regular churchgoer.

7. Each nurse should lay aside from each pay day a goodly sum of her earnings for her benefits during her declining years, so that she will not become a burden. For example, if you earn \$30 a month you should set aside \$15.

8. Any nurse who smokes, uses liquor in any form, gets her hair fixed at a

beauty shop, or frequents dance halls will give the director of nurses good reason to suspect her worth, intentions, and integrity.

9. The nurse who performs her labors, serves her patients and doctors faithfully and without fault for a period of five years, will be given an increase by the hospital administration of five cents a day, providing there are no hospital debts that are outstanding.

—excerpted from Shawnee Mission (Kansas) Medical Center Lifelines.

# Dr. Louis Perry discusses ECC, budget, tuition

*In an interview with HSC News, Dr. Louis B. Perry, new president of the State Board of Higher Education, discusses his views on issues in higher education.*

Dr. Louis B. Perry, president of Standard Insurance Company, was named president of the State Board of Higher Education July 20.

Dr. Perry is past president of Whitman College, Walla Walla, Washington, and served 10 years as professor of economics and two years as presidential assistant at Pomona College, Claremont, California. He has been a member of the State Board of Higher Education for a year and a half.

In an interview this month with *HSC News*, Dr. Perry discussed issues in higher education which will bear on the future of the Health Sciences Center.

**HSC News:** Dr. Perry, what is the role of Oregon's Educational Coordinating Commission, and how does it relate to the State Board of Higher Education?

**Dr. Perry:** The Educational Coordinating Commission and the State Board are still seeking to determine their relative spheres of action. The legislative intent is, I think, quite clear in that one of the principal roles of the Coordinating Commission would be just that—coordinating the efforts of the State Board of Higher Education and the State Board of Education, as well as seeking to eliminate duplication and the possibility of unnecessary educational programs.

What the Commission will be in actual practice is yet to be determined. Speaking for myself, and not as a member of the State Board, I don't think all the answers are yet in.

There is some rightful concern that the more additional administrative organizations are involved in the approval process, the more institutions will be handicapped in the implementation of policies.

There is quite legitimate concern—and I think probably some members of the Educational Coordinating Commission themselves will share this—as to whether what we have in the ECC is an organization that's going to have to redo or analyze everything that the State Board of Higher Education may do.

*There is quite legitimate concern . . . as to whether what we have in the ECC is an organization that's going to have to redo or analyze everything that the State Board of Higher Education may do.*

In other words, are they going to be second-guessing everything the State Board accomplishes? I think this would be unfortunate in creating not only duplication of effort, but also a so-called "super-board."

But, as I said, I don't think all the evidence is in yet. I would suspect we will need at least a couple of years of experience with the Commission before we'll know the answers.

**HSC News:** What are the prospects for favorable or unfavorable action by the State Legislature on Higher Education's proposed budget?

**Dr. Perry:** The Legislature would be remiss in its obligations to the public if it didn't examine closely all aspects of the education budget and any budget that requires an input of taxpayers' money.

I think the Legislature will thoroughly examine the budget. Probably there will be a good many changes and some shifts in priorities.

I would also say the Legislature should recognize the Health Sciences Center not only as an educational organization, but in terms of its service

obligation to the people of the state. Specifically how it will come out budget-wise, I hesitate to say.

Certainly, the State Board will be supporting the budget before the Legislature.

We're working in an atmosphere today with respect to financing higher education that is quite different from the 1960s. It's quite obvious that the university-age population is leveling off and will be relatively stable for a number of years. Under these circumstances, we can't expect the Legislature to apply dollars based upon a growth situation.

I'm sure it will be examining the budget to see whether or not the increases are validated by the need to maintain or improve the quality of programs and whether or not new programs are justified.

The Legislature may—and should—see whether or not some things should be cut out or abandoned as being no longer of importance to the people of Oregon.

But I would hope that the members of the Legislature wouldn't be so short-sighted as to feel that higher education is no longer of great importance to the citizens of Oregon. There's no question but that the future of our state is certainly going to be dependent very heavily upon the quality of the higher education process.

**HSC News:** What is the philosophy of the State Board on tuition increases?

**Dr. Perry:** The Board's philosophy is, I think, evidenced in the 1977-79 budget, which the Board hopes can be funded without increasing tuition.

There are two schools of thought on this. There is a feeling on the part of a number of people that students should carry an increasing burden of the expenses of their own education.

The opposite side is that they should carry less of that burden because, after all, if they profit from their educations, they'll be of service to the people of the state and the country. Thus, the cost of achieving this should be borne by those who are going to benefit, in other words, society as a whole and the tax paying segment thereof, in particular.

There will be a tuition increase in the coming year. We're in the second year of the present biennium. The budget under which we're now operating was approved by the previous Legislature. A tuition increase was required in order to balance that budget.

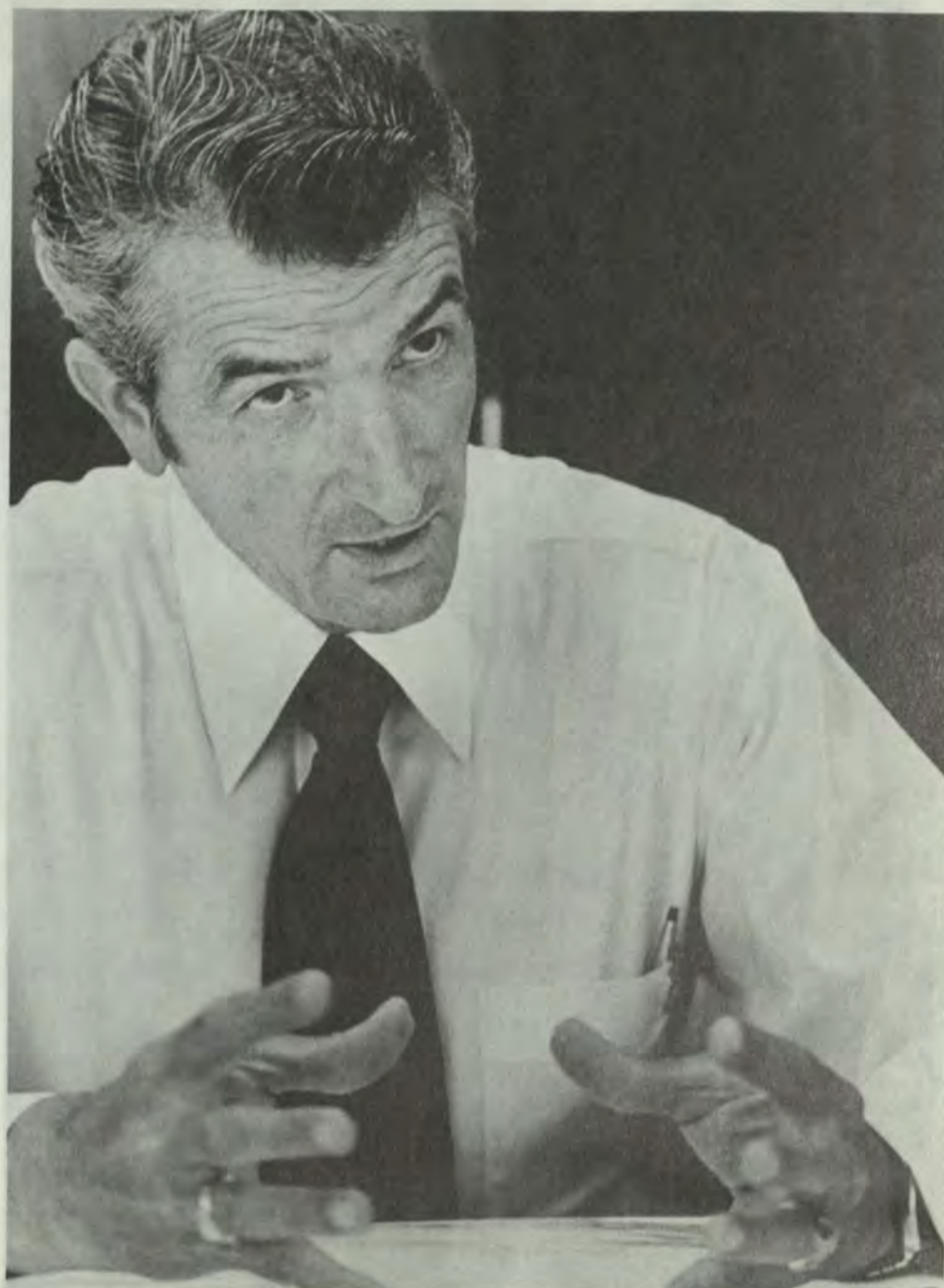
But the budget that we're presenting to the 1977 Legislature for higher education for the 1977-79 biennium does not contemplate a significant tuition increase.

**HSC News:** What about proposed tuition increases for medical and dental students?

**Dr. Perry:** The issue hasn't come to a head. The State Board doesn't really have a philosophy on this as yet. But there is a strong belief in Oregon that there should be a means by which medical and dental students eventually would pay more of their education costs. This is because of the relatively high income status they will have, particularly if they go into private practice.

*There is a strong belief in Oregon that there should be a means by which medical and dental students would pay more of their education costs.*

It is thought that if tuition is increased, students should be eligible for loans that could be repaid in one of two ways. First, by deferred payments; that is, out of earnings from private practice in later years. Or, secondly, by public service of some kind following graduation or completion of residency requirements.



**DR. LOUIS B. PERRY**  
president, State Board of Higher Education

I rather like the social service concept—spending a few years in the areas of our state that appear to have a definite shortage of medical practitioners. But I say this without having made a study to see what could be implemented.

If the Legislature does not approve the State Board budget, which is predicated on the basis of no significant tuition increases, then the State Board will be forced to reconsider the means to balance its budget. Tuition increases for medical and dental students would be among the factors considered.

But the Board would also be looking at tuition levels at other institutions.

**HSC News:** Is sufficient attention being given to long-range planning for the State System of Higher Education?

**Dr. Perry:** At the present time attention is being paid to long-range planning. As to whether sufficient attention is being paid I'm not yet in a position to answer. That's one of the things I want to learn more about.

But our ability to predict the demographic characteristics and composition of the population by age group, especially as they relate to the age group from 18 to 24, over the next ten years is good.

The uncertainty lies in how many of them will go to college as they reach the age of 18, and how many of them will go on to graduate school. The state of the economy at a given time also has something to do with this. Students are more likely to return to school or stay in school to complete programs if the job market isn't too good.

**HSC News:** How do you visualize your role and the role of the State Board with the Health Sciences Center?

**Dr. Perry:** My relationship with the Health Sciences Center is one of warm appreciation. There are a number of

reasons for this. One is that I was the lay member of the committee that was involved in the selection process for the first president, Dr. Bluemle. I'm obviously biased inasmuch as I think that the committee made an excellent choice with the advice of the staff and the faculty of the Health Sciences Center.

But I think that as time goes by, and as Dr. Bluemle and his staff are able to integrate and gain the confidence of the formerly somewhat separate units of the HSC, it is going to have an improved relationship with the State Board simply as a result of this process.

Before the Center was established, the deans of the various schools reported directly to the Board.

Now, the Board is going to be able to look at the Health Sciences Center as a unit. This may be a bit hopeful, because it takes time, but assuming that the competitive aspects within the units of the Health Sciences Center can be reduced, there will be more of a unified and common voice before the Board to relay goals and needs.

This process will assist the Board in understanding the Health Sciences Center's mission and in helping accomplish that mission. The Board will be able to look more at the final results and not have to be directly concerned with internal problems.

The fact that the Health Sciences Center now has an excellent lay advisory board is also going to contribute toward improved relationships with the Board of Higher Education. The Advisory Council will give the Center a door to the community and the state. When the Center comes before the Board for program changes or fund requests, it will already have had these examined by the Advisory Council which will, in a sense, be acting for the citizens of Oregon.

# An airplane in the basement? It wasn't easy

It's two years down and about nine months to go before Dr. Charles Kerber will be traveling in his Bede BD-5.

The BD-5 is an experimental single-engine and propeller driven aircraft with room for only the pilot.

Dr. Kerber, associate professor of radiologic diagnosis, is building the plane in the basement and garage of his Southwest Portland home.

The plane is from a kit, which costs \$2,500. By the time it is finished about \$10,000 total will have been invested in the craft, he estimates.

The basement construction site is not large. "The big problem is the doors. When something gets too big, it has to be taken out to the garage for final work," he explained.

The completed plane will not be big either—just 14 feet from its nose to tail, with a 22-foot wingspan.

Unlike many single-engine planes, the propeller for the BD-5 is behind the tail to push the craft along, rather than in front to pull.

Although Dr. Kerber figures the plane will not be finished until the spring of

1977, after starting in May 1974, he does not know what it will be like to fly.

"After I bought the kit I went back to Newton, Kansas, the Bede test center, and flew the BD-5 trainer—it's a plane on a long boom mounted on a pick-up truck. It's just like flying. I found it similar to flying in a military jet," he said.

A retired U.S. Navy flight surgeon, Dr. Kerber knows military jets well. It was that taste of learning to fly propeller and jet powered aircraft which encouraged him to earn a commercial pilot's license after coming to the HSC in 1972.

And it's his interest in flying which convinced him he could "beat the odds" in building a plane.

"It's very difficult to build a plane of your own," he said. "About 90 per cent of the aircraft which people start to build on their own are never finished."

He is a member of the Experimental Aircraft Association. "I don't know why, but Oregon seems to have many people who have built their own aircraft. They're very skilled and helpful when you run into problems."

Actually Dr. Kerber has a partner in the project, a friend teaching in Saudi Arabia for Trans World Airlines. Soon, when he returns to the U.S., construction of the plane will go much more quickly, Dr. Kerber said.

Most of the plane construction takes place during weekends. The aluminum and steel is put together with aviation glue and rivets.

Once the plane is airborne it will be quick and economical.

Powered by a Honda Civic automobile engine, with a turbocharger, the plane will cruise at 220 miles an hour. He said it will cost about five cents a mile to fly.

Dr. Kerber's basement hasn't been used just for airplane building. In the same basement he developed a tiny catheter and balloon tip which made possible a technique whereby glue is injected into blood vessels to starve a patient's tumor.

If building an airplane and designing a catheter aren't enough, Dr. Kerber has recently finished his first draft of a 200-page book about aerobatics, with 150 photos he has taken to illustrate the text.

Dr. Charles Kerber shows a photo of the Bede BD-5. Behind is the hull of the aircraft he is constructing.



Photo by Tim Marsh

# Scientists investigate body's response to cholesterol



Dr. Connor prepares patient Robert Hale, who has abetalipoproteinemia, for a study of his genetically abnormal lipoprotein. Behind, is Martha Fry, research dietitian. The studies are being done in the Health Sciences Center's Clinical Research Center.

Persons with abetalipoproteinemia absorb fat poorly. Any fat they eat is excreted as a fatty stool. The disease may also cause blindness, deteriorating coordination of arms, legs, and eyes, and loss of sensation.

Large amounts of cholesterol, in the form of egg yolks, are fed to the two groups being studied. Then researchers compare the excretion of cholesterol from the body.

"After a normal individual eats this load of cholesterol, the cholesterol level in the blood should go up 20 to 30 per cent," explained Dr. Connor. "Then the body should produce a stimulus to excrete it."

"We are concerned that, in persons with high blood cholesterol levels, this stimulus is not appreciated by the body. The ingested cholesterol remains in the blood for a long period of time and is ultimately stored in the arteries. This may be a genetic problem brought out by a diet high in cholesterol."

The Lipid Laboratory is also performing tissue culture studies, under the direction of Dr. Don Layman, assistant professor of medicine.

Taking a new approach to the study of cholesterol, Dr. Layman is comparing cellular cholesterol metabolism in persons with inherited diseases of high and low cholesterol. He is also growing cells from the arteries and veins and smooth muscle to study cholesterol intake and storage.

Dr. Connor believes that, at present,

the only effective means of maintaining safe cholesterol levels in the body, for most people, is by adherence to an Alternative American Diet.

The diet emphasizes the use of whole grains, legumes, complex carbohydrates, and other low cholesterol foods, and is more nutritious than the average diet.

Most important, this diet has the potential of preventing a number of diseases associated with the current American diet, including coronary heart disease, and stroke, diabetes, and cholesterol gall stones. There is even some reason to include bowel and breast cancer in this group of preventable diseases, according to Dr. Connor.

In September, the research group will begin to identify an initial random sample of 50 families in a given area of Portland who agree to adopt the Alternative American Diet.

Eventually, researchers will study a sample of 200 families who consume this diet over a five-year period, noting how they make the transition to new eating habits.

## HSC News wins

HSC News has won the 1976 MacEachern Award for best external newspaper published by a specialty hospital.

The award was presented by the Academy of Hospital Public Relations and is the fifth award the News has won this year.

Earlier it received a first place from the Oregon Communicators Association for photography; first place from the International Association of Business Communicators for a newspaper published by a non-profit organization; and two citations from the Council for Advancement and Support of Education.

Health Sciences Center researchers are trying to learn why some persons retain excessive amounts of cholesterol in their blood and develop fatty deposits in their arteries.

Scientists and physicians have known for a number of years that high cholesterol levels in the body contribute to heart disease.

But they still do not know why some individuals retain excessive amounts of cholesterol in the blood and later develop fatty deposits in their arteries.

At the Health Sciences Center, a re-

search team, headed by Dr. William Connor, professor of medicine and head of the Lipid Research Laboratory, is studying the body's cholesterol control mechanisms.

Dr. Connor is comparing cholesterol metabolism in persons with high blood cholesterol to that of two patients with an extremely rare disease, abetalipoproteinemia, which is associated with the lowest cholesterol blood levels known (25-30 mg per cent; normal is 120-200).

These studies are being carried out in the HSC Clinical Research Center.

# Summer employees zero in on health professions

Taking electrocardiograms, assisting dentists, and working with autistic children are just a few of the jobs being performed by 17 minority and low-income students who are working for the Health Sciences Center this summer.

Seven of the 17 are upper division high school students interested in dentistry, medicine, or other health careers.

They were selected by their high school work experience counselors on the basis of interests and academic performance.

Three of the seven are dental assistant trainees at Monroe High School and are gaining work experience this summer at the School of Dentistry's Russell Street dental clinic.

*"The admissions committee here is interested in prospective students' past exposure to a medical environment, and this job has helped me get that kind of exposure," explained Beverly Tyler.*

The students' salaries are funded through the City of Portland's Youth Services Division.

Ten of the 17 summer employees are college students or graduates who have applied or will apply to medical or dental school.

Their salaries are funded by the School of Medicine's general research support grant, under the direction of Dr. Robert Stone, dean.

According to minority recruitment officers Ollie Moreland and Terry Rawlins, the summer job program is designed to expose students to medicine and dentistry and to give them work experience with faculty members.

The program also gives faculty members an opportunity to get acquainted with minority students.

One student participant in the program, Beverly Tyler, commented, "I've always wanted to be a physician, and my job experiences on the campus have strengthened that feeling."

She continued, "The admissions committee here is interested in prospective students' past exposure to a medical environment, and this job has helped me get that kind of exposure."



#### Large photo:

*Cheryl Roberts, 17, prepares a tray of instruments for oral surgeons at the School of Dentistry. Cheryl, who also worked in oral surgery last summer, has just graduated from Jefferson High School. She is interested in a dental career.*

#### Top left:

*Tony Knox, right, discusses His (pronounced "Hiss") Bundle Electrocardiograms with Remi Alawode, a Nigerian graduate of the University of Portland.*

Edward "Tony" Knox, a summer employee in cardiology, added, "Before working here, I was just generally interested in becoming a doctor. Now, cardiology has begun to appeal to me especially."



*Tony is a pre-med senior at Lewis and Clark College. Remi has applied to the HSC School of Medicine.*

#### Bottom left:

*In the pediatric renal metabolic laboratory, Beverly Tyler, right, discusses ra-*

*dioimmunoassay results with Dr. Dagmar Bartos, assistant professor of pediatrics. Beverly graduated from the University of Portland this spring and will reapply for admission to the School of Medicine for the fall of 1977.*

Mr. Rawlins is presently consulting high school work experience counselors and interested HSC faculty members in an effort to develop a year-round, part-time job program for minority students and others.

He hopes to receive recommendations and suggestions from faculty members who are interested in having students work in their departments. Salaries would be paid through the Youth Services Division.

## Class reunites

The HSC School of Nursing welcomed 18 graduates of the Class of 1961 for a reunion July 16.

Those present at the reunion came from as far away as Texas and Wyoming. Some had not seen the campus since they graduated 15 years ago.

The group toured the Center, saw the HSC Founding Day film, attended a reunion luncheon, and had a picnic the following day with their families.

According to Joyce Colling, a class member and assistant professor of medical and surgical nursing at the HSC, almost every member of the 29-member Class of 1961 is a working nurse or hospital administrator.

Alice Cannon, class member and assistant head nurse of surgery in University Hospital, chaired the committee that planned the reunion.



Mary Ann Novak, urology  
Patrick Moore, clinic admitting  
Sara Owen, surgical services  
Dianne Demings, clin path  
Carolyn Bauer, clin path  
Mary Ellen Stanger, CCD  
Marvel Munkers, purchasing  
Joanne Loeb, personnel  
Woodie Camp, pathology  
Dr. Vinton Sneed, pathology  
Dr. Benjamin Siegel, pathology  
Rosemary Vanderhout, admitting  
Carol Raski, dental materials sci

**Ten Years**  
Kenneth Canary, printing  
Marion Lee, nursing service  
Dr. Jack Vernon, otolaryngology  
Virginia Winner, surgical services

**Fifteen Years**  
Allan Rogers, animal care  
Dr. Paul Blachly, psychiatry  
Dr. Michael Baird, medical services  
Dr. J. David Bristow, medicine  
Sue Underwood, CCD  
Laverne Honey, nursing service

**Twenty Years**  
Dr. David Mahler, dental materials sci  
Charlotte Funk, mailroom

**Twenty-five Years**  
Dr. Keith Claycomb, biochemistry,  
School of Dentistry  
Verneda Newborne, dietary services

**Retirements**  
Anna Hurner, accounts payable  
Devonia Sproul, patients' accounts  
Frances Rand, clinic supply  
Doris Hensley, nursing service

## VIPS

### Service Anniversaries— From Personnel

#### AUGUST

#### Five Years

Dr. Andrea Tongue, ophthalmology  
Susan Schweppe, pats' accts

# HSC and its neighbors - "We're working together"

*The Homestead Neighborhood Association shares the HSC's concern for the future of Marquam Hill.*

Most people are concerned about what their next door neighbors do.

Such is the case of the Homestead Neighborhood Association. Its next door neighbors are the Marquam Hill health complexes, the HSC and Veterans Administration Hospital.

The association was formed in June, 1974 to respond with recommendations to a Portland City Planning Commission "Marquam Hill Planning Study," presented a month before.

Active membership of the association includes 225 who live, work, or own property in the Marquam Hill area. It is estimated about 2,500 live in the area.

According to Dick Chamberlin, past association president and now chairman of its planning committee, the association began because some people felt they did not have an opportunity to

give sufficient input to the city's study.

He said a flaw in the study is not recognizing the HSC and VA Hospital as "major activities generators in this area."

"The students, employees, and staff populations on the Hill are equivalent to the town of Forest Grove, about 10,200. Our recommendations recognize this fact and the problems associated with it."

One of the study's recommendations the association is most concerned about involves development of the approximately 300 acres on Marquam Hill now undeveloped and existing in a natural wooded state with streams and trails.

In its response to the city's study the association had nine recommendations including one suggesting retention of some undeveloped land.

Other recommendations dealt with establishment of a park on a city school site, a special urban conservancy zone, transportation needs, parking arrangements for University and Veterans hos-

pitals, street improvements, state and state-federal employee housing, communications with developers, and a pre-school child care center.

Since accepting these recommendations in October, 1974 the city planning commission has taken no action on them, according to Mr. Chamberlin.

He said the association has had a good working relationship with HSC and VA Hospital officials.

"We're working together," he said. "As a matter of fact, both the VA Hospital and Health Sciences Center have appointed members of their staffs to our planning committee."

"We still have some feelings in which we hope the HSC will become more in tune with us. But, overall, I can't be anything but complimentary. Both President Bluemle of the HSC and Phil Clark, VA director, have been very good to work with."

Part of the hope of the association, he said, is that the HSC will develop into more of a campus type setting.

"If there was more housing available, and more facilities such as stores and recreational opportunities, it would cut down quite a bit on our transportation problem," he commented.

He points out that the association has been successful so far in keeping the city from closing its fire station No. 2, near CCD and the VA Hospital. It is working with an apartment complex toward adjusting its plans to be more in harmony with the area's environment.

"We are not just hoping, we are doing things for this area. That's the only way. We have developed a plan that will match the growth of this area and, at the same time, maintain it as far as livability is concerned," he said.

HSC student participation is sought by the association. "They would gain from what we are seeking to do. A pre-school child care center and a park are good examples. We want to get them involved since they are a vital part of this area," he said. "They have a vested interest in what we are doing."

Many people consider the Marquam Hill area somewhat like a park. The association recognizes this: "There are a lot of trees and vegetation which we want to see maintained," Mr. Chamberlin explained. "We want this type of environment continued. It will not be possible without total planning."

Earlier this month, the Association elected a new president. He is HSC employee Peter Dehlinger, a research associate in the School of Medicine's department of bio-chemistry and a resident of the Marquam Hill area.

*Mr. Chamberlin, center, discusses the proposed new VA Hospital with HSC President Lewis Bluemle, left, and William Prentice, associate director in the HSC development office.*



## Swan in Africa

Chris Swan, senior medical student, is spending his summer on a three-month externship in Africa funded by Reader's Digest International Fellowships.

Swan is one of 31 senior medical students from the United States and Canada to receive fellowships. He left in mid-July to assume his post at Bansa Baptist Hospital in Cameroon, West Africa.

Accompanying Swan in his assignment is his wife Kristine, a 1976 graduate of the UOHS School of Nursing. A participant in the UOHS Nurse Practitioner Program, Mrs. Swan is offering nursing assistance at the outpatient clinic for children in Cameroon.

As one of three physicians at the 130-bed acute care hospital, Swan is assisting with inpatient care and making excursions by plane and by road to administer outpatient care at medical outposts. Swan also makes periodic trips to a nearby leprosarium.

Made possible by a grant from Reader's Digest, the Medical Assistance Programs provide three-month assignments to rural mission hospitals in remote parts of the Third World.

According to MAP President J. Raymond Knighton, "Carefully planned and supervised programs are offered by local hospital staffs. The students thus are provided with firsthand knowledge of health problems in that segment of the world population which has the least access to adequate medical care."

Swan will earn course credit for this clinical field experience under the UOHS School of Medicine's department of public health and preventive medicine.

Upon returning in mid-October, Swan will resume his studies at the School of Medicine and will graduate in June with a doctor of medicine degree and a master of science degree in anatomy.

## Employees take advantage of free test



*Susan Greer, research assistant in endocrinology, has her blood pressure tested by nursing student, Pat Glazier.*

About 200 Health Sciences Center employees took advantage of an opportunity to have their blood pressure tested by nursing students July 27 and 29 in Mackenzie Hall.

The two-day screening was open to anyone on the Hill.

Of those tested, 15 learned that their blood pressure was above acceptable normal limits. They were advised to see their private physicians.

According to Sue Malter, one of the nursing students who held the screening, "We wanted to get involved in primary prevention. We're used to working in the hospital with people who are sick. But we thought it would be exciting to reach people *before* they get sick, since high blood pressure is a problem that so many people have."

The blood pressure screening was performed by Miss Malter and three other nursing students for a senior clinical experience elective. They used guidelines established by the American Heart Association.

One employee who participated in the screening, Susan Greer, research assistant in endocrinology, commented, "I felt I should have my blood pressure tested because there's a history of heart

disease in my family. I was relieved to find out that it is normal."

Other students involved in the project were Pat Glazier, Sue Rake, and Pam Pittenger.

## NIH editor visits

Marc Stern, assistant chief of the National Institutes of Health news branch, was on the HSC campus July 23.

Mr. Stern, who edits NIH's *News and Features*, met with six Health Sciences Center faculty members to discuss their research and programs.

Faculty members with whom he met included: Dr. Emil Bardana, associate professor of medicine; Dr. Herbert Fowler, associate professor of psychiatry; Dr. Robert Brummett, associate professor of otolaryngology and pharmacology; Dr. Monte Greer, professor of medicine; Dr. William Connor, professor of medicine; and Dr. Shahbudin Rahimtoola, professor of medicine.

Mr. Stern also met with staff of the university relations office to discuss national news coverage of events and research on the HSC campus.

# Newsmakers

Governor Robert Straub has named two Portlanders, a businessman and a lawyer, to the Oregon State Board of Higher Education.

Loren L. Wyss, director and senior vice-president of Columbia Management Co., will succeed Phillip A. Joss, whose term expired June 30.

Mr. Wyss is a graduate of Harvard University and Harvard Business School.

Jonathon Ater, an attorney, will replace George Layman, whose term also expired June 30. Ater attended college and law school at Yale.

Both appointments are subject to confirmation by the Oregon Senate.

Earlier this summer, the governor appointed another member to the State Board. She is Ruth Daniels, a senior in elementary education at Oregon College of Education. She will serve a two-year term, replacing Marc Maden, who served two terms on the Board.

Guy Mount, Jr., assistant administrator of hospitals and clinics at the UOHSC was one of the directors elected to the Rose Festival Association at its annual meeting this summer.

Carol G. Jenkins, librarian for the UOHSC School of Dentistry, has been elected secretary of the Oregon Library Association for 1976-77.

Mary Holter, a dietary service worker, retired in July after 37 years of service on the Hill.

Mrs. Holter, who began working at the State TB Hospital in 1939, commented, "I've liked everybody I've worked with here. There are a lot of nice, kind, thoughtful people on the Hill. They're wonderful."

Dietary service employees held a party in honor of their retiring colleague July 29.

The Museum Art School held its Annual Thesis exhibition this spring. Among the 23 graduating art students honored at the showing was Lori Unis, a medical illustrator in operative dentistry at the UOHSC School of Dentistry.

Miss Unis' unusually large paintings, done on 6x9 foot canvasses, capture the raininess, light, movement, and reflection of Portland at night—scenes of the city most people take for granted. She hopes to be a self-supporting artist, "as long as I can do it and eat."

The Board of Directors of the Portland Center for Hearing and Speech this year honored two individuals for their major contributions to the development and growth of the Center during the past three decades. The Center's large Preschool Playroom on the first floor was renamed in honor of Sylvia K. Tweedle, Education and Publications Associate, and editor of *Hearsay* at the Center.

The Center's library was named for Dr. David D. DeWeese, professor and chairman, department of otolaryngology at the UOHSC.

Bronze plaques were hung in each room summarizing the services of each honoree.

Elean Nassir, educational coordinator of the HSC cytotechnology program, was featured in a recent article in the *Oregon Journal*. Mrs. Nassir, who is president of the Oregon Medical Laboratory Technicians' Society, described her field as a "demanding, round-the-clock profession."

Dr. Jules V. Hallum, chairman of the department of microbiology and immunology, has been elected by the board of governors of the American Academy of Microbiology to fellowship in the Academy.

Dr. Walter Gabler, professor of bio-

chemistry and oral biology at the School of Dentistry, has been reappointed consultant to the Council on Dental Education for the American Dental Association's Commission on Accreditation.

Dr. Herbert Laffitte, professor and chairman of the department of periodontology at the School of Dentistry, will serve as consultant to both the Council on Hospital Dental Service and the Commission on Accreditation's Council on Dental Education for the American Dental Association.

Dr. William K. Riker, professor and chairman of the department of pharmacology, has been named president of

the Western Pharmacology Society. He will head the 200-member society for a year.

Ed DeTemple, Portland artist and creator of the Benjamin and Becky Beaver cartoon series for the HSC's Operation Image, may currently be seen in a new role on television. Mr. DeTemple appears in the Far West Federal Savings tv commercial which shows a young boy and his grandfather fishing in a boat. The voice accompanying the ad is that of Mr. DeTemple.

Michele Wiley, media relations officer in the university relations office, has

received the "individual effort" citation for outstanding chapter work and leadership from Women in Communications, Inc. Mrs. Wiley has been president of the organization for the past year.

Faculty members of the School of Medicine who are now serving as officers of the Oregon Medical Association are: Dr. C. H. (Larry) Hagmeier, clinical instructor in anesthesiology, president; Dr. William Fisher, associate professor of family practice, vice president; and Dr. Glenn Snodgrass, assistant clinical professor of neurology, secretary-treasurer. Dr. Hagmeier succeeds Dr. Roy Payne, associate clinical professor of medicine, as president.



Photo by Joan Kingsley

An explanation by a dental hygiene instructor of proper techniques of oral care captures the attention of several of the almost 90 persons who attended last month's Junior Dentists Institute. For more on this year's JDI program, please see page one.

## Animal farm opens doors

A first-hand look at the Health Sciences Center's animal farm was taken July 18 by about 90 neighbors of the farm, which is located in Hillsboro.

In the photo on the left, visitors at the special Summertime Open House inspect the farm's pygmy and alpine goats. Guests received a flyer describing current scientific and medical projects involving animals housed at the farm. The animal farm is operated under the auspices of the HSC animal care department, which is directed by Allan Rogers.

## HEALTH SCIENCES CENTER NEWS

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