

Growth "cap" fouls enrollment

By LEE MCNEELY

"The Palo Alto Times was not exactly correct," says Foothill's Registrar, Irel Lowe, in reference to the front page article that was run Thursday, Dec. 30 under the headline "Foothill, De Anza en-

rollment declines."

A news release was sent out by Joan Green in Foothill's Public Information Office to the local news media to inform the public that some classes for winter quarter were still open. She said that this

was done because last quarter community residents had been discouraged from registering for low enrollment classes because of the percentage increase "cap" that Governor Jerry Brown had put into effect.

The "cap" has now been lifted so that now state funding is determined by how many "contact hours" (actual in-class time) a student spends is what counts, rather than the number of students enrolled. Because of the change in the funding policy, while classes are still limited to a minimum twenty enrollment, there is no longer a worry of having more students than the budget can handle, explained Ms. Green.

While the enrollment for this winter quarter is down by about 400 students as compared to this time last year, Dean of Students Dr. Harry Bradley says that "you don't really know what the number of students enrolled means until you get almost to the end of the quarter to see how many contact hours there are."

Because of an extended registration period and late registrations, it is impossible to know at this time what the enrollment will be at the end of the quarter.

Neither Dr. Bradley or Lowe is upset by the slightly smaller number of daytime students. The community outreach programs such as the evening classes and off-campus classes, particularly with the opening of the Palo Alto Center, have

increased in registration. And even though budget-wise it takes three-and-a-half of the off-campus and evening students to make one full-time day student, both Bradley and Lowe feel that the increased registration will help to keep everything safely in balance.



Registration office in its usual busy routine during the early quarter.

Photo by SCOTT WISEMAN

Biology 10-AT unique

By RACHEL O'KEEFE

Biology 10-AT Lab is the only exclusively audio-tutorial course offered at Foothill and has been operating with growing success since 1968.

The course covers the same material as the standard Biology 10-A course and students receive the same amount and type of credit (4 units). However, in this course, students primarily teach themselves by using the text, a laboratory study guide, films, etc. The lectures and directions for carrying out laboratory activities are recorded on tape and can be listened to as often as necessary.

The audio-tutorial laboratory is based on the philosophy that students are not all ready to learn at the same time. "There are few things in this world that we are all required to do in unison," explained Richard Adler, a Biology teacher, "At times, a student may not be ready to study a subject. This way they

can do it when they are in the mood. This method is apparently successful and students do consistently better than those in the traditional classroom.

The advantages of the audio-tutorial lab are numerous. Students can hear a lesson over and over, so words are never missed. Tutors are always available if help is needed. Prep sessions are given to prepare students for quizzes. Students can borrow tapes and do much of the work at home. The atmosphere in the Biology lab is friendly and the students can get to know each other.

Furthermore, students can complete work ahead of time and take the final exam early. Best of all, students do not have to come each day at a specified time to study Biology and can work at the speed and time which best suits their schedule.

Although there are many advantages to students, it is a difficult program for

an instructor to run. "The teacher is more or less always on duty—always immersed in it. I can never get away for any length of time," said Adler. He cites this as one possible reason this method of teaching has not grown more rapidly.

Regarding future plans, Adler said he would like to add additional units concerning other facets of biology. Someday he would like to be able to "tailor-make" a biology class for every student. Each student would not take all subject material, but only that which would be most valuable toward reaching their career goal. For those with no specific goals, there would be a general program giving them a taste of everything.

There is a great need for tutors in the Biology 10-AT lab, so that students in the course can receive more one-to-one help.

The students that are best qualified to assist in the program are those who



Photo by SCOTT WISEMAN

Biology teacher Richard Adler supports the biology audio-tutorial course.

(Con't on page 2)

Foothill troupe tours

By CAROL ZAPATA

Foothill's music department is tuning up for competition, performances, and instruction.

Phil Mattson's Concert Choir, the largest performing choir on campus with 60 singers will be touring throughout seven western states; California, Oregon, Washington, Idaho, Montana, Utah, and Nevada.

The group will sing at churches, high schools, and colleges from Feb. 18 to Feb. 28 and return to Foothill for a performance on Feb. 28. In addition, the Civic Music Association of Santa Rosa has invited the Concert Choir to perform their repertoire consisting of liturgical material in Latin as well as English.

The Fanfares, Foothill's jazz vocal group and the first jazz chorus in the country according to Joan Green of the Public Information Office, adds 15 members to the choir.

Phil Mattson also directs a Chorale class for less experienced singers. Joan Green explained that no prior training is required. "It's just to have fun and develop talent."

Terry Summa, director of the Jazz Ensemble and Concert Band, is leading

the Jazz Ensemble in competition at the Sacramento Jazz Festival, sponsored by Sacramento City College.

Vocalists Scott Williams and Peggy Nisbet will perform with the 20 instrumental players on Friday morning January 14. Two top bands will be chosen out of the 15 vying for top places.

Roger McRea, who heads a Commercial Music Program, is trying to construct a recording station on campus. This program provides counseling and guidance for aspiring musicians, while offering practical application of musical ability as well.

Courses consisting of music business and liberal arts are offered to provide a basis for internship in selected fields. It is a two year program open to those with some background in music.

John Mortarotti, chairperson of the Fine Arts Division, has planned a Fine Arts Day on February 4. 16 high schools will be invited to see the facilities. The music department, as well as the rest of the Fine Arts Division, will put on demonstrations and offer counseling for students interested in music or art careers.

ASFC sponsors profitable "Journey"

By CYNTHIA LORENCE

The major topic of this weeks ASFC meeting was the "Journey" concert which was sold out by Friday Jan. 7.

John Low, the concert coordinator, predicts that the concert's gross income will be \$12,500. After subtracting the overhead costs, Foothill will receive a profit of some \$3,500. from the concert.

Also discussed were the possibilities of presenting a Jose Feliciano concert on Feb. 26 in the Foothill Gymnasium. Tickets for this concert would be \$5.50 and \$4.50. Jose Feliciano suggested that the benefits go to Los Amigos.

The ASFC also appropriated the funding of specific concert equipment (lighting equipment and walkie-talkies).

hill Jazz Concert—March 8, The Foothill Concert Band—March 15, and The Foothill Chorale and Fanfares—March 17.

Other topics of discussion were the ASFC Film Series and new ASFC officers.

This quarter the Film Series will present "She Done Him Wrong" (Mae West and Cary Grant) and "My Little Chickadee" (Mae West and W.C. Fields) on Feb. 4, "Jules and Jim," a French classic film portraying the life of a "modern" woman before WWI (Jeanne Moreau and Ishaar Werner)—Feb 18, and the classic Casablanca (Humphrey Bogart and Ingrid Bergman.)

The Films will be shown in Appreciation Hall. Showtime will be 8:30 p.m. Tickets will be 50 cents for students and \$1 for regular admission.

The ASFC members for this quarter are Ed Lillibridge—President, Bruce Horton—Vice President of Administration, Eric Jones—Vice President of Activities, Jan Maltby—Senior Senator, and Junior Senators—Dave Fryday, Jerry Bress, Kevin Donovan, and Kevin Norris.

Petitions will be accepted up to Jan. 17 for the positions of Junior Senator, Social Affairs Director, Finance Director, Elections Director, Experimental College Director, and committee representatives from the following committees: Advisory, Curriculum, Affirmative Action, Instruction, ISC, CCCSGA/CCFCA, Traffic, Council of Presidents, District Council, Mass Communications Board, and Campus Center/Bookstore Board.

President Lillibridge urges students with an interest in any of these positions to file a petition and become involved.

Lillibridge defined student government as a "place where a student has the opportunity to be involved in all aspects of college. It's place where the student can develop himself or herself while providing a meaningful input."

When asked about the problem of student apathy at Foothill, Lillibridge responded, "I don't see student involvement so much as a problem, but as a goal."



Students hard at work in biology 10-AT lab that features the first audio-tutorial course.

Photo by SCOTT WISEMAN

(Con't from page 1)

have recently completed Biology 10-AT with a grade of B or A. However, those above-average students who recently

completed the traditional Biology 10-A or other similar programs will be considered individually on the basis of their background.

Depending on experience, tutors receive one or two units of transferable credit. Tutors have a chance to try out their skills in teaching and helping others. There is also the chance to pay back the assistance they received during the program. Adler added with a smile, "It's a great way to meet people."

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Skiers swap set

By MICHAEL COSCHIGANO

Skiers look alive. The Foothill Ski Club will hold a ski swap on the Foothill Campus, Saturday and Sunday, January 29 and 30. This year the Ski Club has gone all out to offer an excellent opportunity for skiers to find a bargain. As an added attraction they have arranged for the K2 Ski Team to appear during the swap.

If you have equipment you would like to sell, contact Brook Demar, who is in charge of inventory for the Ski Club which will accept skis and boots etc. on consignment. All equipment to be sold on consignment should be turned in around the 22nd so as to avoid confusion as the swap draws near.

Paul Meyer, a former student has given a lot of time to this project, along with Eric Neuman, Pres., Laura Michaels, Sec., Dan Walker, Advisor, and Ann Scott from O.B.D. who have all been instrumental in planning the swap.

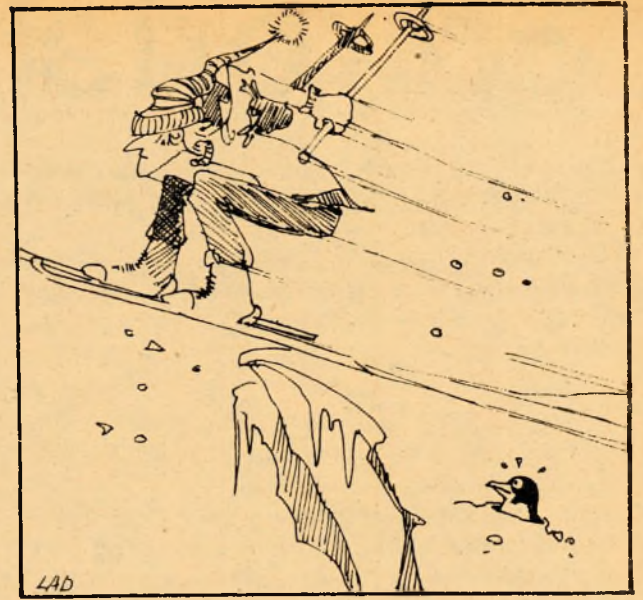
They have also arranged for booths to be rented to manufacturers of ski equipment and apparel such as, Kneissel, Daiman, and Ski's N' Such on the El Camino in Los Altos. Saska Apparel will also have a booth with ski apparel. At press time it seemed likely that they would do a style show. There will also be door prizes this year including items such as four pairs of skis and other ski equipment.

Direct from Vashon Island, Washington comes the 1976-1977 Team K2 Ramp Show . . . starring some of the top freestyle competitors in America. They will perform graceful leaps and fearless mid-air flips as they swoop down a towering 45 foot long ramp. K2's freestyle skiers, three to a team, will be performing over 100 shows nation wide. The shows are not confined to traditional ski country such as Boston, Minneapolis, and Denver, but will also be held in Miami, Atlanta, and Dallas.

The three members of each team picked to complement one another's talents. During the show, all will

perform aerial flips, but each skier will add his or her own special maneuvers. The team will bring a fully contained van, with its own flip ramp and support materials. The flip ramps can be set up atop the van or in small auditoriums. Fully assembled, a ramp stands 18 feet high and is forty-five feet long. The artificial ski surface they will be using is made of DuraSnow by Sun Slope Corp. of Los Angeles. A bright blue and yellow air pillow 20 feet square serves as a soft landing strip for the daring aerialists. They will be performing 6 shows on Saturday and Sunday in front of the Campus Center.

The success of this swap will help insure that the ski club will be able to sponsor and organize future swaps and their excellent ski trips.



Foothill "Masters" display art

By BARBARA GORDON

Photography students can critique their beloved Foothill "masters" this month. The latest works of the Photography Department faculty are hanging on the walls of the main room of the library. Diverse ideas expressed in black and white and color reveal the artist.

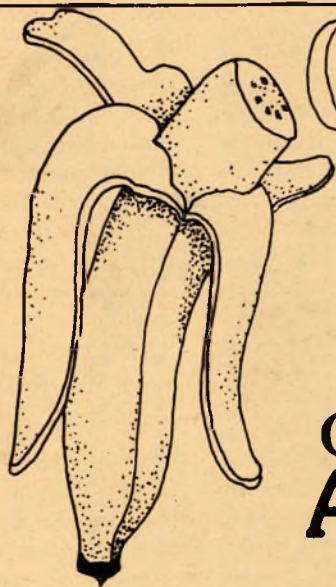
Lescher Dowling's prints show texture strongly--the sand, worn dry leather on cracked mud and metal that asks to feel its roughness. His world is seen through a keen point of view under the imaginative changing world of light.

"So the darkness shall be the light and the stillness the dancing" is the title of Marion Patterson's work. She shows the strange and mysterious beyond. She expresses her ideas through rushing water, brambles and decaying leaves, and sex, skeletons and astrology.

Doug Keith displays majestic scenic works of nature where the near shore, the lake, the distant mountains, are all seen under the cloud filled sky. Various moods of nature are shown in snow capped mountains, mist, fall leaves, rushing brooks and even delicate pollen. There is also a shot of the "most photographed tree."

Mike Beard clicked his shutter with humor capturing nudes in blue toned prints entitled "Mail Order Bride," "Wallpaper for People with a Hair Fetish," and "Furniture for Lovers."

The show includes the work of four more faculty artists. Mike Ivanitsky displays his virtuosity with trick photography; Dale Boyer captures musicians with unusual instruments; Patti Stammer rolls nudes and boulders together; Norm Starratt shoots trains and tressel in a vast countryside; and Steve Kiser gives studies of black with white lines.



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Editorial ...

Once again Foothill students must deal with the hustle and bustle of registration, new teachers, and cancelled classes. My sympathies to you all.

This quarter, our editorial staff consists of: me (one more quarter of being your editor-in-chief), Paula Williams, City Editor: Colleen Casey, News Editors: Michael Torcellini and Richard Plambeck, Arts Editor: Sally Roll, Sports Editors: Chris Morrissey and Steve Tady, Photo Editor: Barbara "Flash" Gordon, Production Managers: Peter Bliss and Bob Baer, Advertising Manager: Chantal Dangler, Copy Editor: Jane Hall, Business Manager: Neva Hacker, Circulation Manager: Lee McNeely.

The staff members are more experienced this quarter and will bring you the SENTINEL with dedication each week.

Your suggestions, comments, letters, and communications are welcome.

Letters to the Editor, which should be submitted by Monday at 10 a.m., need to be signed by the author. Names may be withheld from print at the request of the writer, but no letter will be printed without the author's identity being known to the editor.



"The final solution"

Editor:

In the December 3 edition of the Sentinel, The Owl N' Pussycat Boutique advertised that their shop was "the final solution" to Christmas gift-giving problems.

This is the phrase that

Adolf Hitler used to describe the extermination of some five million Jews. In his words, he attempted "the annihilation of the Jewish race throughout Europe."

I don't believe that we will ever be far enough

removed from that horror to use his phrase frivolously. I hope that greater sensitivity will be used in selecting future ad captions.

Very truly yours,
Sally Croft
Foothill Student

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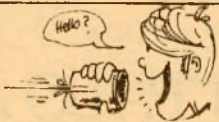
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BACK IN THE STACKS

By KATHY RUSSELL

I spent my vacation immersed in some science fiction garnered from the stacks. What inspired my flight from the present was discovering "Science Fiction Studies" in the periodicals room. This is a most interesting magazine which critiques and reviews science fiction writers and their works. The current issue discusses the many worlds of John B'unner and I became so involved that I had to revisit "Stand on Zanzibar." While looking at the available books, I found "The Puppet Masters" by Heinlein as well as many of his other works. The library has "Dune" by Frank Herbert and many volumes by Issac Azimov. I pictured the conflagration the library would make if we were living in the world Ray Bradbury created in "Fahrenheit 451."

Coming back to the campus after spending three weeks in the future world I was rather taken aback by what looked like a miniature space ship sitting on the circulation desk. It's a new electric pencil sharpener. No longer do we have to go back of the staircase to sharpen our pencils. In the periodical room I was confronted with a huge monster. It's the new Microfiche reader/printer—ready for your use. It looks like a neat gadget though I've not had a chance to try it yet.



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Vets Voice

By RICHARD PLAMBECK

Various veterans' organizations and U.S. Senators are fighting the recent Congressional effort to include the Senate Committee on Veterans' Affairs in the newly conceived Human Resources Committee.

In an open letter to the "Stars and Stripes," six senators, including California's Alan Cranston, have requested that public hearings be scheduled to put the issue in front of the veterans and other interested persons.

"The Senate Veterans' Affairs Committee, at present, is directly responsible for the overseeing of operations of the Veterans' Administration, the Federal Government's largest independent agency," the

letter states.

"The approved 1977 budget for the V.A. exceeds \$20 billion, and with 226,000 employees, it is the second largest government agency. It operates 171 hospitals, 217 outpatient clinics, 86 nursing homes, and 16 domiciliarys. In addition, it operates the largest life insurance program in the world, with \$35 billion in force.

"In light of the importance of the VA, and the Veterans' Affairs Committee to the more than 29 million veterans, we urge the Senate Rules committee to set aside part of their upcoming hearings for Senators and other interested parties to testify specifically on this issue."

In addition to the six

senators previously mentioned, 17 veterans organizations have officially announced they oppose such a move by the senate.

Jeffries Carey, of the National Association of Concerned Veterans, one of the most prominent organizations, says the move is just another effort to short change the veteran.

"With rampant unemployment among young veterans, with educational benefits being eroded by inflation and rising tuition costs, with health care for veterans at unacceptable levels, it is clear that any proposal to end the SCVA is really just a suggestion that the Senate turn its back on veterans issues rather than face them."

Lela's Last Laugh



Foothill / De Anza menus probed

By JANE HALL

Food, glorious food draws people's attention and students are no exception. My task was to compare the eating options of Foothill students with those of De Anza students. Is there a difference between what lay behind their kitchen doors and ours?

The fundamental difference between the food services operations at the two schools is the number of doors and the size of the kitchen. I found that De Anza has an higher enrollment than Foothill and a food services operation that serves a greater number of people. De Anza students have a choice of three different eating places; a cafeteria, a snack bar and "The Cellar," a grill featuring hamburgers that is located in a building separate from the cafeteria. Foothill runs a smaller food services operation that is limited to the Owl's Nest and the cafeteria.

The two schools carry most of the same food items however, and at about the same prices. Breakfast can be obtained at Foothill or at De Anza for \$1.25. Sandwiches run in the same price range at both schools in addition to most other food items. Both schools are self-supporting but not profit-conscious food service operations.

Helen Wyatt, Foothill's food services director and Daniel Johnson, De Anza's director spoke about the influence that students have upon the choice of foods that are made available on the campuses. Wyatt and Johnson said that students are vocal about their likes and dislikes and these opinions are carefully considered in the planning of menus and the making of

policy.

Wyatt and Johnson plan menus every five weeks and tailor the menus to the particular preferences of the students that quarter and also what is abundant in the market place at that time of the season. Wyatt said that food preferences differ from quarter to quarter. "One quarter you have chili freaks and the following quarter you get a soup and salad bunch," she said.

Foothill serves approximately 6,000 customers per day and De Anza serves between 8 and 10,000 but Helen Wyatt says that Foothill students patronize their food services to a greater degree than do De Anza Students.

I found that De Anza's Cafeteria offers some specialties that Foothill does not offer. These features include a sandwich bar where sandwiches are made to order, a salad bar and an ice cream freezer stocked with goodies including "It's It" ice cream sandwiches.

Wyatt says that it takes her three weeks to determine the food preferences of a particular quarter's group. Spaghetti, carrot cake and tamale enchilada casserole are among the standbys that are popular every quarter. Johnson said that hamburgers remain the most popular food item at De Anza and also cited the popularity of spaghetti.

Wyatt said that students are aware not only of the food they eat but of the finishing touches of the atmosphere of the eating facilities. "So many students, particularly the men, notice when fresh flowers usually found on the eating tables are missing."

(continued on page 7)



FESTAC committee members make last minute preparations for the festival.

photo by MALCOLM PERKINS

Students leave for Nigerian festival

By SHARON BEEBE

20 members of the community including several Foothill College students, left Thursday, Jan. 13 to attend the 2nd World Festival of Black and African Art and Culture (FESTAC) which is being held in Lagos, Nigeria from January 15-February 20.

According to Ismael Gonzalez, Associate Co-ordinator of the Multi Cultural Center at Foothill, "The festival will give

African-Americans a chance to display their cultural achievements."

Gonzalez explained that Foothill has been trying to organize this trip since 1973 but that it has been postponed in the past due to political unrest in Africa.

The festival, which will be a meeting of Black intellectuals, artists and performers from more than 70 countries, will enable participants to get an overall view of Black and African art, culture and scientific achievement.

In addition to exhibitions of Black and African art and dance, participants will view examples of film, visual arts, theater, music and writing talents.

The Nigerian government expects 30,000 people to attend the event, including a delegation of 2,500 African-American educators, artists and performers from the United States.

Students who attend the festival will receive college credits for the seminars they attend which will be transferable to other colleges and universities. The course requirements which may be satisfied are Social Science 23, English 13 and Social Science 35.

Gonzalez said that while many students were able to pay for their trip, a good deal of the money for the excursion came from successful fund-raising events held at the college during the past year. The cost per student is estimated at \$1,200 which includes travel, lodging and food expenses.

Findhorn - an intense place

By MARK TUNNELL

A film and lecture on the Findhorn spiritual commune in northeast Scotland was given recently in the Foothill College Theatre by Foothill Interpersonal Communications instructor Tom Kyle.

Findhorn is a five-acre trailer park on the windswept shore of the North Sea. With sandy soil, icy winds and the noise of an air force base nearby, Findhorn members, seeking spiritual harmony, have transformed the barren park into a flourishing vegetable and "spiritual" garden. Begun in 1962 with four persons, Findhorn now hosts 200 people of many nationalities and different ages.

Instructor Kyle visited the community for three months with his family while on sabbatical last year. He defined the essential meaning of Findhorn as, "First, a community in the sense of being a place--a physically intense place, a caravan park, an unlikely place."

Secondly, he said Findhorn was, "a point of concentration, a center of light--in the classic metaphysical notion of spiritual intensity, and a generator to put

psychic energy out to the people of the planet."

"Findhorn," said Kyle, "is like an acupuncture point on the planet."

People working and meditating in the intense spiritual energy at Findhorn, "begin to feel special energy patterns that are in the mythology of the (Celtic) culture. They (the energy patterns) get certain labels attached to them," Kyle says, explaining reports of members claiming to see elves, gnomes and fairies among the plants of the garden.

"ATTUNEMENT"

Before the film began Kyle asked the audience to go through "attunement", a frequent practice at Findhorn.

"Attunement," Kyle said, "is an attempt to be conscious of a center in people around me: I'm here in relationship, to tune wider, to become aware that our energy affects one another."

Kyle asked the audience to hold the hand of the person next to them and be conscious of that person, tuning, connecting.

The 60-minute documentary begins

with a young Irishman cheerfully commenting, "No man in his right mind would put a growth community here--jet planes, harsh weather, on unowned land!"

RANDOM INTERVIEWS

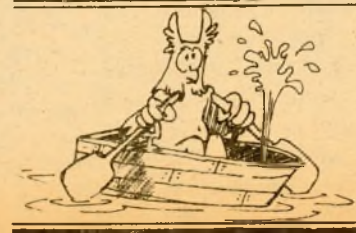
The film contained random interviews with members six to 85 years of age, and viewed the community at work, in meditation and in song.

Much of "Findhorn" centers on Peter and Eileen Bark, who, with their four children, started Findhorn in 1962, after Mr. Bark lost his job as manager of an Edinburgh hotel.

Much of the film was also dirty, grainy and out of focus.

Without narration, or a central theme, "Findhorn" ended with a tall Scot guitarist singing amidst a dancing group, "How can I describe the way I love you? Words don't seem to have a single chance."

Afterwards, discussion groups met in the theatre with several persons who had lived at Findhorn.



OCEANS

COURSES BY NEWSPAPER

By C.P. IDYLL

C.P. IDYLL, a specialist in fish populations, marine ecology, and the development of international fisheries, is Study Director of the National Ocean Policy Study with the National Oceanic and Atmospheric Administration in Rockville, Maryland. He was previously with the University of Miami, where he served as professor and chairman of the Division of Fisheries and Estuarine Ecology in the School of Marine and Atmospheric Sciences, and as executive secretary and then chairman of the Gulf and Caribbean Fisheries Institute. He also served as senior research advisor to the United Nations Food and Agricultural Organization. He is author of "The Sea Against Hunger," and "Abyss: The Deep Sea and the Creatures That Live In It," and is coauthor and editor of "Exploring the Ocean World: A History of Oceanography."

"The power of population is infinitely greater than the power in the earth to produce subsistence," warned the Rev. Thomas Malthus in 1798.

Today the concern about man's ability to feed himself is even deeper and more widespread. In recent years the world agriculture machine has exhibited distressing symptoms of malfunction and is not keeping pace with human population in many areas of the globe.

In central Africa and southern Asia famine has struck savagely, and the other face of hunger, malnutrition, affects 460 million people in the hungriest areas of Asia, Africa, and South America. World grain reserves are declining, which bodes ill for a multiplying population. By the year 2000 the present 4 billion population will reach 6 to 7.1 billion.

The hope of many is that the sea can take over if the land falters in food production.

Can the sea feed the land? At present the sea produces far less food than the land—about 3 percent of the total supply. Oceanic plants carry on half as much photosynthesis as land plants. Can we then not expect to get half as much food from the sea as from the land if we work at it?

Unfortunately the answer is no.

One of the principal reasons is that oceanic plants and plant eaters, which make up by far the greatest bulk of living material, are for the most part unsuitable as human food. An 80 to 90 percent loss in food value occurs with each new link in the marine food chain—plants to copepods to herring to salmon to seals to killer whales. The rest is spun off as energy or waste.

Plants supply between 70 and 85 percent of our land-based food, with virtually all the remaining coming from herbivores, or plant eaters.

By sharp contrast, much less than 1 percent of our seafood consists of plants, and very little is from herbivores. The kinds of plants useful for food—those producing seeds, fruits, and tubers—are nearly missing in the sea. The dominant marine plants are microscopically small algae.

PLANKTON SOUP

The dream of feeding the world with plankton soup is impractical because many of the tiny plants are unpalatable and it is expensive to harvest organisms so thinly distributed in vast volumes of water. For similar reasons, insignificant amounts of marine herbivores (the equivalents of cattle and sheep) are eaten.

This leaves available only carnivorous animals like salmon, cod, and lobsters—aquatic equivalents of lions and wolverines. Since they are several links farther along the food chain, they are 100 to 10,000 times less abundant than the plants.

It is surprising to many people that we are probably already at least halfway to the maximum harvest of the sea for the familiar kinds of seafood. The great increase in fishing during the last two generations has left few if any stocks of these resources unexploited, and many have been severely damaged. About 69 million metric tons (mmt) of marine fish were landed in 1974, while scientists estimate that the maximum annual yield of familiar kinds of seafood will be from 90 to 130 mmt. Most of the increase will come from the Southern Hemisphere, and most from fishes that swim in mid-water.

NEW FOODS

Larger increases are possible if we learn to use new kinds of seafood. Krill, small shrimp-like

9. Can the sea feed the land?



animals living in incredible numbers in the Antarctic, might yield from 100 to 200 mmt a year. The red crab, a miniature lobster of the west coast of the Americas, might support an annual catch of 300,000 tons, and great quantities of squids are available for harvest. Deep-sea lantern fish may be common in the markets of the future since there are enough of them to support catches of 100 mmt a year. Altogether, harvests of "unconventional" products up to ten times the present catch of all species may be made in the next 25 years.

AQUACULTURE

On land, agriculture has almost totally replaced hunting as a method of food gathering. Yet aquaculture accounts for only a small fraction of our aquatic food, the rest coming from the capture of wild fish.

To change this we must understand better the complex aquatic environment. We must overcome the problems of expensive food for cultured animals, shortages of young, and high costs of labor and land. And we must use genetics to improve the animals we raise.

Severe social impediments also exist—pollution, lack of legal protection, resistance by other users of coastal waters. If we can solve these problems, we can increase the present yields of fish farms by ten times or more.

Most of the increase in total harvests will come from resources that are not now being fully used. However, better

management can also help by restoring depleted stocks and avoiding future declines like the catastrophic collapse of the Peruvian anchovy fishery, once the biggest in the world.

DIVIDING THE HARVEST

The realization that there are not enough fish to go around is partly responsible for the present turmoil in ocean affairs. As a result, the management of fisheries includes not only conservation of stocks but the politically more difficult task of dividing the harvest fairly among a rapidly increasing number of claimants. Thus a hallowed concept—that fish resources should be freely open to exploitation by all comers—is reluctantly being abandoned.

Domestically, this raises abrasive conflicts among competing users. And internationally, great acrimony has resulted from the activity of foreign fleets offshore: American boats off Ecuador, Soviet trawlers off the U.S., British vessels off Iceland.

A consensus among nations is emerging that accepts a 12-mile territorial sea and a 200-mile "economic resource zone."

But two sessions of the U.N. Law of the Sea Conference failed to formalize this into a treaty because of the lack of agreement on other issues: deep-sea mining, navigation, freedom of scientific research, pollution control.

U.S. fishermen have been so impatient with this failure that the government has created a

200-mile resource zone, pending international agreement through a U.N. treaty.

The U.S. has thus announced that it will assume control over the fish stocks in 2.2 million square miles of additional ocean area, containing 10 percent of the world's fishery resources. The nation faces the difficult task of creating a new cooperative state-federal fisheries management regime that will protect the stocks from depletion and allocate catches fairly.

The world has failed to prevent serious declines in some fish stocks—haddock, salmon, whales—and we have not made the maximum use of other ocean resources through fishing or aquaculture. Better knowledge and institutions are required.

But more importantly there needs to be increased realization among nations that the common cause of increasing food from the sea demands better cooperation. Recent events in international affairs hardly give much comfort here. Nonetheless, we cannot cease to try.

Although the sea cannot replace the land as the major source of food, it can make a much greater contribution than in the past.

NEXT WEEK: Bostwick H. Ketchum, Associate Director of the Woods Hole Oceanographic Institution, considers the impact of humans upon the vast sea in his discussion of "Pollution: Is the Sea Dying?"

On the Spot

By COLLEEN CASEY and SCOTT WISEMAN

What is the most frightening thing you can think of?

CAROL HORNEY
(Business major)

"Physical immobility. I've been there. Being unable to do things for yourself and having to depend on others to do everything for you is awful. I feel that once you have physical mobility you can do anything."



RON SMITH
(Bio-met major)

"People in general. The way they act toward each other. I think people think more about themselves than they do of others. It's in man's nature to behave that way, the only way to improve it is to change their heart's attitudes by accepting Christ in a personal relationship."

CLEMENT BUTLER

"The way the nuclear powers are being produced. All these big countries with all these nuclear powers is really a frightening thought. All someone has to do is push a button and the whole world is gone."



SANDY WINKLER

"The first thing that comes to mind is rejection. I've felt rejection before. I've felt alone before and it was scary."



SCOTT WILCIKIDEMER
(Humanitarianism)

"Apathy is the most deadly thing that faces us right now. All you have to do is look out across the highway and you will see why I say this. There's no push for solar energy or anything that is a little difficult to work with. People are too lazy to care."



Benefit concert

Quick sell on Journey tix

By NANCY STEIN

Vibrations of rhythm and song will emanate from the Foothill College Gym at 8 p.m., from the music-makers "Journey" on Saturday, Jan. 15.

Through the joint efforts of Foothill's day and evening student associations, this progressive Latin-rock band will perform for a benefit concert. The proceeds will go to a scholarship fund for students attending the World Festival of Black Arts and Culture in Nigeria late this January. The concert is a sell out.

Success has marked past concerts as well.

"The philosophy is to help people," said John Low, the student government official in charge.

Organizers hope to make about \$3,000.

"With a little luck it will be more," said John Low.

Several people have helped this concert come together. One of the main things they did was to not oversell the house. This eliminated the problem of too many crowds.

"I feel really good so many people have been able to work together to make the concert a success," concluded Low.



(Photo by Scott Wiseman)

Cafeteria

(Con't from page 5)

I spoke to students about their likes and dislikes and got a variety of opinions. Patty Schweikert was enthusiastic about Owl's Nest food and singled out avocado and cream cheese sandwiches as her favorite food item. Gerard Putaliez said, "The price of the sandwiches is atrocious" and pulled a sandwich made at home out of his lunch bag. Ric Dillaway said he would like to see a McDonald's chain take over the food operation at Foothill.

McDonalds doesn't have fresh flowers.

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Armour hot with 29

Owls still perfect

By STEVE TADY,
Sports Editor

The Foothill College Basketball team ran its league record to 2-0 last Friday night with a convincing 82-66 victory over rival De Anza College on the losers court.

Darrel Armour paced the Owl attack with a career high 29 points. Darrel made 13 of 16 shots from the floor—compiling an 81% shooting mark. Coach Jerry Cole said of Armour, "He had an outstanding shooting night."

Frank Walsh added 22 points for Foothill while hauling down ten rebounds. Walsh and Armour were both 100% from the free throw line.

Foothill made 63% of their shots for the game and shot an exceptional 73% in the second half alone, with Armour making

seven straight shots during one stretch.

Defensively the Owls were just as good racing to a 21-5 lead in the opening minutes, stretching that lead to 27-9 before De Anza knew what hit them. Coach Cole said, "We played excellent team defense." Cole expected a "much closer contest," referring to the Owls one point loss to the Dons at the Hancock Tournament earlier this year.

In their Golden Gate Conference opener, Foothill had to go into overtime to defeat West Valley College Tuesday Jan. 4 at home.

Andre Campbell tallied 18 points for the Owls while Mike Gibson added 12. Foothill shot 48% from the floor compared to 33% for West Valley. The scoring for Foothill was much

more balanced against West Valley as Ron Sims, Frank Walsh, Darrel Armour, and Neville Brandt each scored eight points.

The Owls are 11-3 overall, having lost two games in the Hancock Tournament and one in the Consumnes River Tournament held in Sacramento earlier in December.

Coach Cole describes the G.G.C. as "tough" and "balanced" and expects a very close race for the crown. He tabs City College of San Francisco and College of San Mateo as the teams to beat.

Foothill's next opponent will be Diablo Valley College. The game will be played in Concord at 8:00 p.m. on Tuesday, Jan. 18.

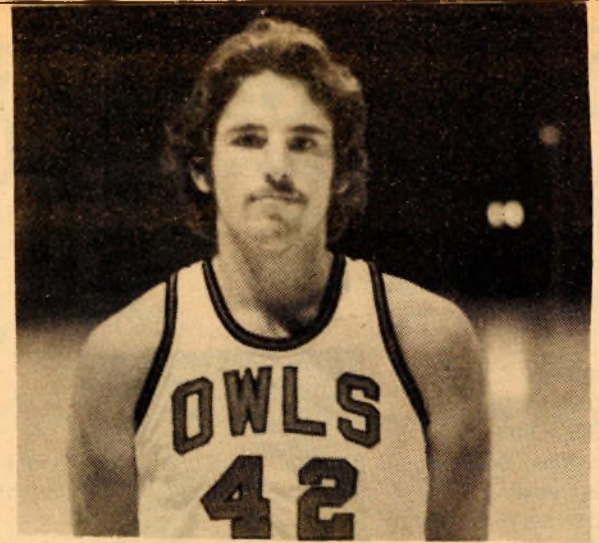


Photo by TOM SMITH

Foothill center Frank Walsh was high scorer in the Owls' victory over Laney Tuesday night. He had 31 points.

Owls vs Quakes

Foothill's 1976 State Championship soccer team will meet the San Jose Earthquakes, championship professionals, in an indoor soccer match on Friday night, Jan. 14 at 8 p.m. in the Foothill gym.

Included in Foothill's championship team will be All-Americans Gene Wekkin and Walter Griffeth, Golden Gate Conference Most Valuable Player Britt Irvine, and Steve Sampson, who made first team in both the GGC and in Northern California. Also playing will be Chris Hull, Tim O'Hare, Javier Rueda, and Ed Dry, all who made All-State.

All Leaguers John Peterson, Rich Dodge, Tom Vanderhoof, Reinhold Gartner, Aldo Quesada, and Robert Bjelica will also participate in the event.

There will be six preliminary youth matches starting at 5 p.m. and going until 8 p.m. Tickets will be sold at the gate at the price of \$1.50 for adults, \$1.00 for students with student body cards and \$.50 for children twelve and under.



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Grapplers face CSM

By MATTHEW BENJAMIN

Foothill College wrestlers hope to even up their 0-1 Golden Gate Conference record against the College of San Mateo on January 13 at 7:30 p.m. in the Foothill gym. Overall the grapplers have posted a 3-1 dual meet record along with two ninth place finishes in the Skyline and American River Tournaments.

There were 20 schools competing in the Skyline tournament, and 24 schools involved in the American River Tournament.

The Owl team is led by its three sophomore team captains Tony Brewer, Mark Lundin and Jackson Sapudar.

"Brewer, Lundin and Sapudar have excellent possibilities of going to the Nor/Cal finals in February, along with freshman heavyweight Louis Knight," according to Foothill coach George Avakian.

Brewer wrestles in the 158-lb division, Lundin in the 142-lb class and Sapudar in the 134's.

Brewer has led the team with an undefeated record of 17-0-3 that includes two second place finishes in the Skyline and American River Tournaments. Brewer lost both championship matches by a referee's decision after being tied through two overtime periods.

Lundin has built a 6-3 record this year despite combating several illnesses.

Sapudar has compiled an impressive slate of 7-4 in matches this year.

Despite the abundance of individual talent the team has been hit by a rash of injuries that will effect their dual meet performance.

Ed Williams had posted a 9-3 record in the 168-lb division and had, "enormous potential," according to Avakian before he fractured his nose and was lost to the team for several weeks. He is now out of action with an ear infection.

"We'll probably have to forfeit three or four matches out of ten, against San Mateo, due to injuries," Avakian said. "We're down to 10 or 12 wrestlers from 28 at the beginning of the year."

"Despite the injuries I'm very satisfied with the unity of the team," Avakian said.

"Had we not lost a couple of wrestlers, we would have a much more representable team against upcoming CSM," Avakian summarized.



Photo by MALCOLM PERKINS

Chris Hull, Foothill's All-State Soccer star, will play in Friday night's game against the San Jose Earthquakes.

TYPING

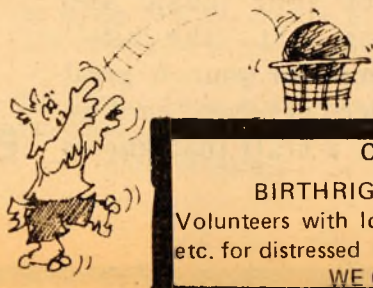
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