

**Merry
Christmas**

THE SYNAPSE

U.C. MEDICAL CENTER

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NO. 6

**Happy
New
Year**

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SPOTLIGHT ON THE CANCER RESEARCH INSTITUTE

The development of the Cancer Research Institute at the Medical School, San Francisco, was approved in principle by the Regents in October, 1947. A definite plan of organization of the Institute was approved by the Regents in April, 1948, when the new unit was established as an agency of the Medical School "to conduct, stimulate and coordinate research, teaching and service on all problems related to cancer." The Cancer Research Coordinating Committee, representing the University as a whole in this field, endorsed this local project as a major step in the university-wide cancer program.

The general purposes of the Institute at the outset were (1) to encourage research already in progress; (2) to stimulate and finance new research; (3) to extend the teaching of cancer and the services required for both teaching and research; and (4) to insure a well-balanced, integrated program in a field which embraces all of the skills and specialties of medicine. With the development of its own physical facilities the mission has been broadened by initiating research programs within the Institute and by drawing together in a compact location many active students of Cancer and related biologic phenomena.

Robert S. Stone, A.B., M.D., Professor of Radiology, was appointed the first acting director of the Institute, to serve until a full-time director was selected. On September 1, 1951, David A. Wood, A.B., M.D., noted Stanford University pathologist and one of the nation's leaders in the fight against cancer, was appointed director of the Cancer Research Institute.

In addition to his researches in cancer, Dr. Wood has been prominent in the administrative, educational and service activities of the American Cancer Society, on both the state and national level. For his outstanding contributions, the Cancer Society elected him President in 1956. In his office are a group of women especially competent in handling the large volume of correspondence and administrative detail that arises from an effort of this scope. This group is headed by Cecile Giffether, and includes Margaret Michelsen, Helen Kishimoto, and Aileen Sodetani.

One of the major events in the Institute's earlier history was the pledge of \$1,000,000 by the United States Public Health Service to assist in construction of specially designed quarters to house the Institute. These quarters may now be seen on the 11th and 12th floors of the Herbert C. Moffitt Hospital and the new wing of the Medical Sciences building.

The longest established component activities of the Cancer Research Institute include teaching, clinical consultation and statistical services. The Tumor Registry, ably led by Calvin Zippin, A.B., Sc.D., is an activity designed to keep histories of all cancer patients going through the Medical Center and thereby accumulate data for statistical analysis. Associated with Dr. Zippin are Muriel H. Johnson, Janet L. Heon, Diane McMorow, Marilyn Lopper, and Jeanne S. Biggs. The Consultative Tumor Board meets weekly as a panel of experts in clinical fields concerned with cancer. Chaired by Maurice Galante, A.B., M.D., this group consults on clinical problems of patients referred for advice as to treatment of their cancers.

A similar Board is active on the University of California Service at the San Francisco Hospital

under the chairmanship of Jesse L. Carr, B.S., M.D., with whom Samuel W. French, A.B., M.D. is associated. Historically this is probably the oldest tumor board established in California. A Photographic Laboratory is associated with this Board and is available through the services of Don Longanecker, to other research facilities of the Cancer Research Institute at the San Francisco Hospital.

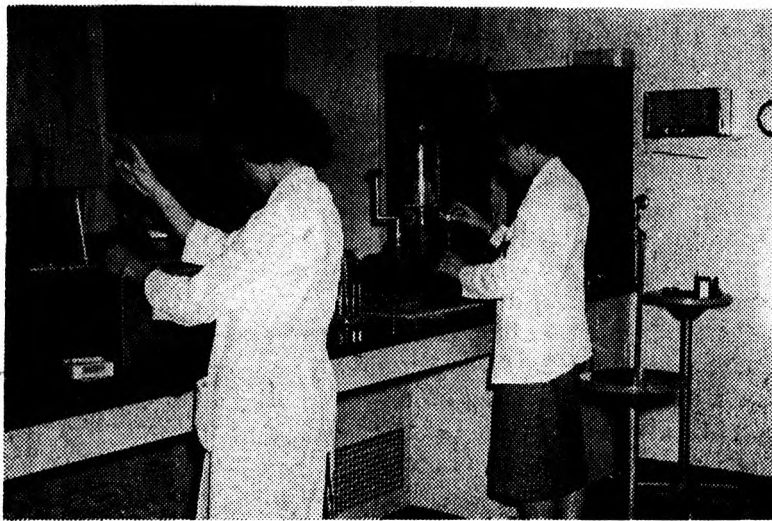
The Visible Tumor Conference, chaired by Francis Torrey, A.B., M.D., with secretarial assistance from Ruth Van Dusen, is a panel of experts functioning in a narrower field for the same purpose. The Follow-up Social Service was established to maintain contact with patients treated in the Medical Center in order to evaluate results of different methods of treatment.

The Pulmonary Cytology Laboratory (U.C. Service, San Francisco Hospital), a pioneer in the application of exfoliative cytology to the diagnosis of pulmonary cancer, is engaged in research and participates in the training of technicians and physicians. Current research pertains to a case finding study of bronchogenic cancer in asymptomatic persons 40 years of age or older in whom there is no clinical evidence of neoplastic disease. Participating in this study are David A. Wood, M.D., Henry D. Moon, M.D., Seymour M. Farber, M.D., Eileen B. King, M.D., Roger H. L. Wilson, M.D., and George J. L. Riba, M.D. These investigators are ably assisted by Samuel Pharr, A.B., M.A., Nedra F. Anargyros, Dorothy A. Herbert, Peone J. Lum, Yoshiko Morishima, Petronila I. Pugay. The secretarial work is done by Patricia E. Munton.

An early addition to these functions was a program concerned with the evaluation and improvement of cancer teaching which serves the double purpose of strengthening instruction in the natural history and treatment of cancers and of testing, by nationwide examinations, the level of cancer knowledge among medical, dental, and osteopathic students. This activity is supported by the National Cancer Institute. In charge is Peter Loret, A.B., M.A., Ph.D., with whom are associated Margaret W. Hopkins, William Lu, and Larrie B. Min-koff.

As the building program approached the present stage of completion, research activities were added to the educational, statistical and consultative services described above. The research work in progress is fairly representative of the variety of avenues now pursued in oncology (the study of tumors).

Clinical cancer research, that is, the investigation of cancers as they occur in cancer patients, has been the province of all physicians of enquiring mind. The Cancer Research Institute has benefitted by the interest and experience of physicians from many special clinical fields, hematology, surgery, general medicine, pediatrics, gynecology, and radiology. Recently the Cancer Research Institute has sought to focus the interest of these many talents upon the cancer problem by in-



Determination of enzyme levels in blood cells and body fluids in malignant and hematologic disease. Miss Lucy Castro is shown carrying out a determination of cholinesterase activity of erythrocytes as Dr. Sabine prepares to lyophilize (freeze dry) small samples for preservation.

tegrating and supporting the special researches of several groups.

Among these are a team working in a collaborative study guided by the Cancer Chemotherapy National Service Center, a new arm of the United States Public Health Service. This team, aided by grants for hospital care of selected tumor patients, is engaged in a study of new chemical agents which may help to arrest cancer or to alleviate symptoms in far advanced disease. Since patients with cancers are also patients who need every type of expert medical care, the team involved includes competent internists, surgeons, gynecologists, pediatricians, radiodiagnosticians and radiotherapists, as well as physicians with special knowledge of the complicated problems of evaluating the benefit that may result during therapy with new anti-tumor drugs.

Experienced chemotherapists and research internists in this

program are Nicholas L. Petrakis, B.S., A.B., M.D., and William A. Atchley, M.D., coordinator for the integrated chemotherapy program. The clinical care of the patients undergoing chemotherapy and clinical investigation is supervised by Rose Papac, B.S., M.D. and Fariborz Amini, A.B., M.D., and various members of the Department of Medicine house staff who periodically rotate through the service.

In the clinical biochemical laboratory associated with this program are Marie A. Doherty, Rose E. Lee, Mary L. Davis, Carla E. Schultz, and Virginia B. Hicken. Consultants to these physicians include Stacy R. Mettier, A.B., M.D., and Salvatore P. Lucia, A.B., M.D., Sc.D. Frequent consultative assistance is also given by members of the Department of Surgery under the chairmanship of Leon Goldman, A.B., M.S., M.D.

Fundamental laboratory studies, integrated with clinical

Dr. Stone Presents Paper on Radiation

From Chicago comes one of the first reports on the use of a 70-million volt radiation machine — called a "synchrotron" — indicates it has certain advantages in treating some kinds of cancers and cancer patients.

However, radiologists using the machine have emphasized to date, the number of patients treated is too small and the elapsed time too short to permit any final conclusions as to the place this tool is to take in the treatment of cancer.

This was one of the points made by Dr. Robert S. Stone, professor of radiology at the University of California Medical Center, San Francisco, who reported some of the early results of treatment with the synchrotron. He spoke to some 2,600 doctors attending the 44th annual meeting of the Radiological Society of North America. His collaborators on the paper were Dr. Gail D. Adams, clinical professor of physics, and Dr. Rose V. Louie, clinical instructor in radiology.

The synchrotron is an atomic particle accelerator or "atom smasher" modified to produce an x-ray therapy beam. The synchrotron research program is supported by the Atomic Energy Commission.

"A betatron could be adapted

Camera Pays Off For Medic Senior

A 26-year old U.C. senior medic from Sacramento was this week awarded first prize in the annual Adventure Film Contest of Bill Burrid's WANDERLUST national television program. Roy Christian, whose interests range beyond medicine to mountaineering, boating, ornithology, painting, writing, and Mexican culture, as well as photography, will for his efforts receive a one-week all-expense-paid trip to Mexico City at Christmas, as well as a \$150 stipend.

The prize-winning entry is a half-hour color film entitled "The Ascent of the Eichorn," and was made last summer during the actual climbing by Christian and two fellow-rangers of this sheer 200-foot pinnacle in the Cathedral Range of the high Sierras.

Despite the fact that he has had only 1½ years experience with moving pictures and uses only a 1933 Bell & Howell camera, Christian has already started filming "Moods and Views," a travelogue of San Francisco, and hopes to complete a third film next Spring during a trip by foldboat down the Colorado River's Glen Canyon.

Asked why he has taken up photography, Christian replied: "I have to do something with all that spare time in Medical School!"

investigation of the basic nature of cancer cells, are under way in six laboratories.

Dr. Atchley has recently set up the Laboratory of Nuclear Immunology in the Cancer Research Institute. There he and his associates Dr. Rose Papac and Malcolm R. MacKenzie, Al Holmar Memorial Cancer scholar, have been engaged in applying to the contents of the cell nucleus immunological techniques heretofore reserved chiefly for elements of the cytoplasm. This will be of great assistance in characterizing some of the differences between normal and cancer cells.

Jean C. Sabine, A.B., M.A., M.D., is interested in the enzyme content of blood cells and body fluids in malignant and hematologic disease. An aim which has been largely achieved is the evaluation of erythropoietic function from enzyme levels in the erythrocytes, and the estimation of mean cell survival from these levels in hemolytic states. A sophomore medical student, Russell Erickson, has spent several months as a summer and part-time Fellow investigating levels of three enzymes in simultaneous samples of serum and/or effusion fluid in malignant and non-malignant disease. Dr. Sabine is also collaborating with members of the Departments of Medicine and Anatomy in an investigation of factors controlling erythropoietic

(Continued on Page 4)

Children's Christmas Party Thursday

An all-school children's Christmas party, sponsored by the Millberry Union Activities Committee will be held at the Millberry Union on Thursday evening, Dec. 18, from 6 to 8 p.m. Included on the program will be games, movies, caroling, and entertainment. To top off the evening, Santa Claus will be there to present gifts to all the kiddies. All children of students, faculty members and alumni are invited to attend.

Dentists Elect Dr. Gordon Agnew

Dr. Gordon Agnew of the School of Dentistry was named president-elect of the International College of Dentists at the annual convention of the American Dental Association in Dallas, Texas.

In other elections, Dr. Gordon M. Fitzgerald of San Francisco was named president of the American Academy of Oral Roentgenology; Dr. D. Roy Grant of San Francisco was intalled as third vice president of the American Association of Dental Examiners, and Dr. Joseph P. Osterloh of San Francisco was re-elected treasurer of the American Dental Society of Anesthesiology.

Dr. Sidney Epstein of San Francisco was elected secretary-treasurer of the American Association of Dental Editors.

At still another meeting, faculty members of the University of California School of Dentistry were among 167 men named to fellowship in the American College of Dentists. They are Drs. Russell D. Coleman, James A. McDowell, Nguyen Thanh Hguyen, Carl P. Regli, George E. Steninger and Eugene E. West of San Francisco.

(Continued on Page 4)

THE SYNAPSE

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EDITORIAL FRESHMEN

Some claim it first occurred in Greece. Others insist Rome was the place. Gaul, India, and ever far off China have their supporters. But they are all wrong and I am going to set the record straight.

It happened in Egypt only 2002 years ago. Liberals, as is their habit, try to give the credit to several countries. Traditionalists believe it occurred much earlier. Reactionaries claim it never happened, and the communists not only agree that it happened but will prove that they were the first to invent it. But they are all wrong.

It all started with that fairest of all monarchs, daughter of the divine Ra, life spirit of the Nile, the immortal Cleopatra.

It seems old Julius was growing bald. Or perhaps he was becoming too obese. History does not exactly specify. In any case, Cleo became disgruntled, turned to her servant, the fleet footed Pheidippides, and bade him run around the corner and fetch her a fresh man.

Thus, all evidence to the contrary, Mark Anthony became the first freshman in recorded history.

One thing led to another and new freshmen are everywhere. Yearly they occur, looking wide eyed, anxious, bewildered, and useless. They invade the universities, infiltrating the cafeterias, lounges, halls and even classrooms.

A freshman is a fissiparously formed figure, feverishly fumbling for fame, faultingly following fellow flabbergasted fools, futilely fleeing from faculty, finals, and fate.

For years juniors have realized that the worst trait freshmen possess is their habit of becoming sophomores. Unfortunately, since no self respecting senior listens to a junior, nothing has been done. But, something must be done.

Friends, neighbors, classmates, throw away your fears. I write not to criticize freshmen but to bury them. The evil they do lives after them. The ulcers they cause eat all of us. The damage they wreak is irrevocable.

The only justification for condoning their existence is the realization that they satisfy the sophomores' crying need to bolster their egos. This ego needs a scapegoat because sophomores are held in such low esteem by the juniors, who are not worthy of notice by the seniors, who are dust at the feet of the faculty, who in turn are scorned by the mannerly carpenters and bricklayers who surround us.

Of course there is the danger that this chain may be broken, in which case the whole pyramid will collapse. The faculty may become friendly with the seniors, who would begin to respect the juniors, who would then admire the sophomores who would no longer need the freshmen.

With the only possible reason for tolerating them removed, freshmen would fade away, leaving peace and tranquility to reign once more.

From the Desk of The Union Director

This being the last issue of the campus newspaper for some time, I'd like to take advantage of the opportunity and bring several matters to the attention of all Union Members:

Brown Bag Lunches: As you already know, the Millberry Union has no restrictions pertaining to brown bag lunches in the building. Contrarily, we are pleased to provide space in our cafeteria for those bringing lunch from home. Lately, however, some brown baggers have eaten their meal in several of the first floor areas, viz., the Main Lounge and Music Room. Since we are trying to operate with a minimum of "House Rules" it is hoped that in the future all food and beverages be consumed strictly in the cafeteria-fountain areas.

Christmas Hours of Operations: A complete set of these hours may be found in another section of this issue and are posted throughout the Union. Questions concerning the schedule may be

directed to our office, extension 721.

Film Program: Our first cinema-scope film showing seemed to meet with favorable response and attracted the largest crowd of the year—140. We are now considering further improvements of the sound system, and use of cafeteria chairs in the Gymnasium for more comfortable seating. In the near future, the complete film schedule for the second semester will be announced.

Jazz Program: An event of this type is contemplated during March of 1959. We have in mind a program featuring an artist (or artists) along the lines of the Hi-Los, the George Shearing quintet, one of the "Big" bands, etc. Your preference and ideas in the matter, by way of one of the suggestion boxes, would be helpful.

In closing, and on behalf of the entire staff of the Millberry Union, may I extend a warm and sincere wish to each of you for a merry Christmas and a rewarding and fruitful New Year.



LEUENSHVIRISSE

"What's in a name? That which we call a rose by any other name would smell as sweet," are the exact words Miss Juliet Capulet used in damning the Dental profession.

Diverted by her charm, beguiled by her apparent innocence, deceived by her youth, admirers have accepted her remarks without question for so long that the aforesaid soliloquy has become an apriori truth.

Of course the statement is false. A name is everything and a rose, if it were called a chrysanthemum wouldn't smell nearly as sweet. How could it if you can't pronounce it?

It is about time for dentistry to realize the importance of a name. Branded DENTIST by some malicious malapropian latin semasiologist years ago, the profession, perhaps under the influence of Miss Capulet, has tenaciously clung to the word, blindly ignoring the unfavorable connotations associated with it.

A perfect example of the harm the word is doing is found in William Saroyan's play "The Time Of Their Lives." In it a woman turns to a man and in a fit of anger curses, "you're a dentist!"

Mr. Saroyan does not hate the dental profession. He uses DENTIST as a curse word because it sounds like a curse word. Starting with a coarse D and continuing two abrupt T's the word just begs to be spit in a fit of anger.

By a simple process of association people figure that if the word is harsh and unpleasant, then the profession it represents must contain the same attributes.

As a result, we find dentists classified with other harsh consonant occupations such as barber, carpenter, and picket fence painter, while soft sounding lawyers, engineers and physicians are more readily tolerated by the public.

The solution is obvious. We must get a new name. If we remove the unpleasant consonants we are left with a serenely slushy ENISSE. Can anyone hate an enisse?

Next we must add a few soft syllables such as leu, sh and vir, to give our name body. This makes it harder to pronounce thus creating greater respect.

Put it all together and we come up with "Leuenshvirissee." Doctor of Leuenshvirissee; the word has a ring, style, and appearance that shall give the profession its just due.

This idea need not be limited to leuenshvirey. All human behavior originates in the use of symbols. The fundamental difference between man and the higher mammals is man's almost infinitely larger power of associating together the most diversified sounds and ideas. All civilizations have been generated, and are perpetuated, only by the use of symbols.

The most important symbol at man's disposal is language. If we could remove all unpleasant words from our speech we would abolish all evil and destructive forces in the world.

A careful study of our alphabet reveals seven guilty letters. They are B, K, D, P, G, Q, T. If we erase these harsh consonants, our speech would reach an amosphere of ease and roseriey ha would eventually lea the worl sron an fier awi oo elss ino a new era.

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Dr. Crede Featured On Television

A special television report on medicine as a career was presented on Station KQED, Channel 9, at 8:30 p.m. Thurs., December 11.

Viewers saw future physicians learning their profession in the laboratories, clinics and hospital wards of the University of California Medical Center, San Francisco.

Guests on the program were Dr. Robert H. Crede, assistant dean of the U.C. School of Medicine, and two medical students who will receive their M.D. degrees next June: Dale Tipton, medical student body president, and Chad Calland, senior class president. They discussed such questions as these:

What sort of young man or woman makes a good doctor? What preparation should high school and college students take if they are considering medicine as a career? How hard is it to get into medical school? Do you really have to be a straight-A student? What are the satisfactions — and the disadvantages — in studying and practicing medicine? What are some of the varied types of career open to the doctor of medicine?

The half-hour broadcast was part of the KQED series "The Job Ahead." The host and interviewer are Mr. Robert Mullen, counselor in the Richmond school system.

NEWMAN CLUB

Newman Club's Annual Christmas Party will be held this year at the Kappa Psi Fraternity on Thursday evening, December 18. Festivities, including Christmas Cheer and other refreshments will begin at 8 p.m. Under the able direction of Ed Della Maggiora, Linda Nicolaides, Beth Maas, Emmy Donnelly and Bill Adams the party is sure to be a success. So remember the date, Thursday evening, December 18, at 8 p.m. at the Kappa Psi Fraternity.

Newman's first meeting of the new year will be held on Wednesday evening, January 7, at 8 p.m. at St. Anne's Parish Library, Funston and Judah. The topic of discussion will be "Marriage and the Family." This will be a panel discussion in which Father Thomas J. Bowe J.C.D. of the Archdiocesan Marriage Tribunal will present the Church's view and Mr. and Mrs. Edward Nevin, parents of seven children, will present the layman's view on marriage and the family. Walter Arkush, an active Newman Club member, will act as moderator. All Catholic and non-Catholic students on campus are cordially invited to attend. The date again is January 7 at St. Anne's Parish Library.



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National Foundation Health Scholarships

The National Foundation, in an unprecedented effort to help overcome the critical shortages of personnel in the health field, has announced a multimillion dollar scholarship program designed to assist students of medicine, nursing, physical therapy, occupational therapy, and medical social work. This will be a first step in its new expanded program.

The present scholarship and fellowship program will be continued but modified and expanded where necessary. This program over the years has added over 7,600 especially trained people to those prepared to work in research and patient care.

The new Health Scholarship Program will encourage a younger age group to select a career in one of the professions at a time when they are looking to their future full of idealism and the desire to be of service in the world.

Shortages in the health field are not new to members of the health professions, but because shortages have increased the workload on each individual, there has been little time to take these problems to the public in an effective way.

The axiom that "only when people make some kind of financial sacrifice for their schools do they take an active and wholesome interest in education," applies not only to the public, but to professional schools.

Under The National Foundation's new program, a means to create community interest in the health professions is at hand. There are 3,100 county chapters consisting of community-alert volunteers. In addition to the basic objective of adding more qualified personnel and in cooperation with the five professions concerned, three additional specific objectives are sought:

- (1) To stimulate interest in all of the health professions, but specifically in medicine, nursing, physical therapy, occupational therapy and medical social work;
- (2) to gain awareness and community understanding of the problems that contribute to the ever-increasing shortages of personnel in the health fields; and
- (3) to encourage cooperation and understanding among the five professions concerned in making their professional talents available to the communities in the solution of these personnel problems.

At the press conference held to announce the new program, Basil O'Connor, president, summarized the new program as follows:

The National Foundation will offer annual Health Scholarships to help provide four years of college or university education in career preparation for five of the key professions: medicine, medical social work, nursing, physical therapy and occupational therapy.

A minimum of 505 Health Scholarships will be offered each year, the first of them before the end of the 1959 school year. They will be made available on a geographic basis with heavily populated states receiving as many as 25—or five for each of the five professions—and with no state or territory receiving less than five Health Scholarships, a minimum of one for each of the five professions.

The National Foundation's chapters, numbering more than 3,100, will have an active part in the program. They will seek and accept Health Scholarship applications, pass them on to state or territorial professional committees for selection, and will present awards to winners.

Health Scholarships will be made available to student citizens of the United States in each of the 49 states, the District of Columbia, Hawaii and Puerto Rico.

Over the next 10 years this program will cost at least \$12,000,000. Each scholarship awardee will receive \$500 a year for four years, or a total of \$2,000—providing that scholastic standards are maintained. The 505 Health Scholarships each year will cost over one million dollars.

Because education requirements of the five professions vary, scholarships will be made available in

Nursing, physical therapy and occupational therapy, to all graduating high school students who have been accepted for an approved program by accredited colleges or universities;

Medical social work, at the college junior year, extending through two years of required graduate work; and in

Medicine, at the college junior, senior or first graduate year, depending upon the requirements of the medical school.

Awards, taking financial need and scholastic achievement into consideration, will be made by state and territorial committees composed of members of the five health professions.

Renewals and payments for the second, third and final years of the scholarships will be contingent upon satisfactory progress.

Scholarship money need not be limited to tuition but may be used to cover any appropriate student expense. Students may accept other scholarship funds, providing The National Foundation is informed of the source and amount.

Winners of scholarships are not committed to work in health fields of special interest to The National Foundation, such as polio, arthritis or birth defects. Scholarship recipients are, however, expected to serve the health field at large, working in areas for which they are prepared.

Population	Number of States	Number of Scholarships per State	TOTAL
Over 8,000,000	4	25	100
8,000,000—8,000,000	3	20	60
2,800,000—8,000,000	12	15	180
Up to 2,800,000	33	5	165
	*52		505

*includes District of Columbia, Hawaii & Puerto Rico

DISTRIBUTION OF SCHOLARSHIPS ADJUSTED TO POPULATION

4 States receiving 25 annual scholarships (5 in each health profession)

1. Illinois
2. Pennsylvania
3. California
4. New York

3 States receiving 20 annual scholarships (4 in each health profession)

5. Michigan
6. Texas

12 States receiving 15 annual scholarships (3 in each health profession)

7. Kentucky
8. Minnesota
9. Alabama
10. Tennessee
11. Virginia
12. Wisconsin
13. Georgia
14. Indiana
15. Missouri
16. North Carolina
17. Massachusetts
18. New Jersey

33 States and Territories receiving 5 annual scholarships (1 in each health profession)

19. Nevada
20. Alaska
21. Wyoming
22. Delaware
23. Vermont
24. Hawaii
25. New Hampshire
26. Idaho
27. Montana
28. North Dakota
29. South Dakota
30. Arkansas
31. New Mexico
32. Utah
33. Arizona
34. Rhode Island
35. Dist. of Columbia
36. Maine
37. Colorado
38. Nebraska
39. Oregon
40. Kansas
41. Louisiana
42. West Virginia
43. Connecticut
44. South Carolina
45. Mississippi
46. Puerto Rico
47. Oklahoma
48. Maryland
49. Washington
50. Iowa
51. Florida

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Group Singing!

Refreshments!

Entertainment!

Eats!

ADMISSION: a gift of a toy (value to \$1.00) or \$1.00 in cash

Gifts to be purchased and gift wrapped by the Pharmacy Wives Club and to be distributed to the Children of the Youth Guidance Center of SF. Arrangements by Applegate

Council News

At the Campus Council meeting, held November 11, discussion was long and hot. It seems that the University of California has forgotten one of its eight campuses—the one located in San Francisco. At the All-University weekend held on the Berkeley campus, the Medical Center was the only one of the eight university campuses that received no mention, and no recognition. It was decided that the ASUCMC should work to strengthen relations with the ASUC at Berkeley and that our campus council should notify the mother campus of its omission by means of a kindly letter to the editor of the Daily Californian.

CAMPUS SEAL

Plans are underway for a contest, sponsored by the ASUCMC, to design a seal to represent the U.C. Medical Center. Any student on campus will be eligible to enter this contest, which will be held sometime in the near future. The seal must equally represent each of the four main schools on this campus, and must be a suitable design for stationary, decals, etc.

NOON CONCERTS

The noon concerts, previously held in classroom B of the old Medical School building, have now been moved to the music room in the Guy S. Millberry Union. It is felt that this will provide a more relaxing atmosphere for the audience.

PUBLICATIONS

A report was presented to the campus council by the Campus Publications committee, recommending that the Synapse and the Med-i-Cal, which have been financed in the past by separate sources, will operate on a joint budget. It is felt that this will be more efficient, since the publications can now place their profits in a common fund, which will serve as a shock absorber to either publication in time of financial distress.

ATHLETIC CARDS

It was reported that the sales of Athletic Cards on this campus has been very poor during the

Christmas Vacation Hours of Operation Of the Union

During the Christmas Holidays, the Union will follow a slightly varied schedule from the usual. On the Saturdays and Sundays which fall between December 20 and January 4, the Offices will be closed, as will the Book Store and Canteen. The Athletics and Games will be open from 11:00 a.m. until 8:00 p.m., and so will the fountain. On weekdays, excepting Christmas and New Years Eve (Wednesday), the Offices and Bookstore will be open from 8:00 a.m. to 5:00 p.m. The Athletics and Games and the Fountain will be open from 11:00 a.m. to 5:00 p.m., and the Canteen will be open from 7:00 a.m. to 4:30 p.m. On Christmas and New Years Eves, the Athletics and Games, the Book store, and the Fountain will close at 4:00 p.m.; the Canteen will close at 3:00 p.m.; but the Offices will remain open until 5:00 p.m. All facilities will be closed on Thursday and Friday, December 25 and 26, and also on January 1 and 2.

This schedule is subject to partial or complete revision based on patterns of use. Any changes will be announced and distributed. The Faculty Club will be closed during the entire Christmas vacation period except on Monday through Wednesday, December 22-24. The normal schedule for the Millberry Union Parking Garage will be followed. A complete schedule of the hours of operation will be posted at various places in the Union.

past semester. This was attributed to a lack of publicity, and to a lack of communications with the Berkeley campus, which handles the Athletic Cards for the Medical Center. The Council decided to investigate the possibilities of handling all arrangements for Athletic Cards and "spouse cards" on this campus next year. Publicity on this subject will be improved so that students will know exactly where and when they can purchase these Athletic Cards.

Everyone at
The U. C. Medical Center
reads the Synapse

Pharmacy (?) Class (?) Party!

GLEN CURETON

Sounds interesting? It was. The star-studded crowd in attendance was entertained — and entertained — to the apparent satisfaction of everyone despite the absence of Anita Eckberg and her belly-dancing rival.

However, the atmosphere of the first year Pharmacy class party was flavored by the presence of a mystery date for class advisor, Dr. Frank Goyan. A relatively unknown actress was thrilled to accompany the amiable professor to the party Thursday, Nov. 13, at the Kappa Psi fraternity house. Incidentally, Joan Lilley looks very well in gray hair, high heels, and a slinky black dress.

Rumors had it that Mae Fong, another celebrity, was going to wear a leotard to the class party. All evidence available at the present indicates that Mae did not wear a leotard. She was not available for comment at press time. Other persons of prominence in attendance were Dr. Roger Ketcham and Calvin Lee, both of Organic Chemistry fame — of one type or another. All teachers of the first year classes plus two female members of the cafeteria staff were invited. Present also was a "Good Group" from S.F. State and elsewhere plus a few upper class party crashers (who crashed biochem the next morning).

Plans for the function began to materialize to reality at the class meeting immediately after Pharm. 104, Mon., Nov. 10. It was here that Pres. Glen Cureton announced that Treasurer Cleo "Milk-bone" Ma was to collect class dues, of which a substantial part goes toward class parties. If any first year students have not shucked out yet, "Cleo" is still willing to part you from your \$2.00 — and any dog biscuits you may have.

Many thanks go to Bob Rouse, Vice President and thus Social Chairman of the first year pharmacy class. He planned the whole affair and did most of the work of preparation and cleaning up. Special gratuities go to Tom Rinehart, electrical technician—speaker and amplifier provider. A vote of thanks also goes to Bob Andersen and Pete Lazo for loaning records for the cause. We are indeed indebted to the cafeteria staff who loaned us 144 glasses. The first year class is also grateful to Kappa Psi Fraternity and Hank Din for the use of their house and facilities.

Campus Barber Shop

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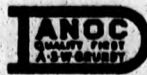
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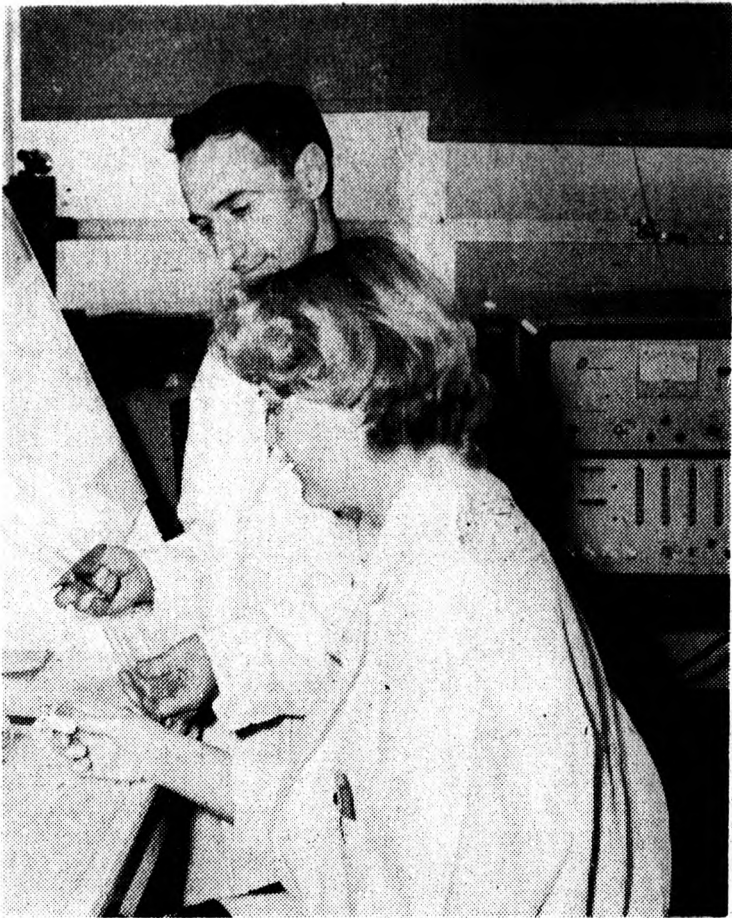
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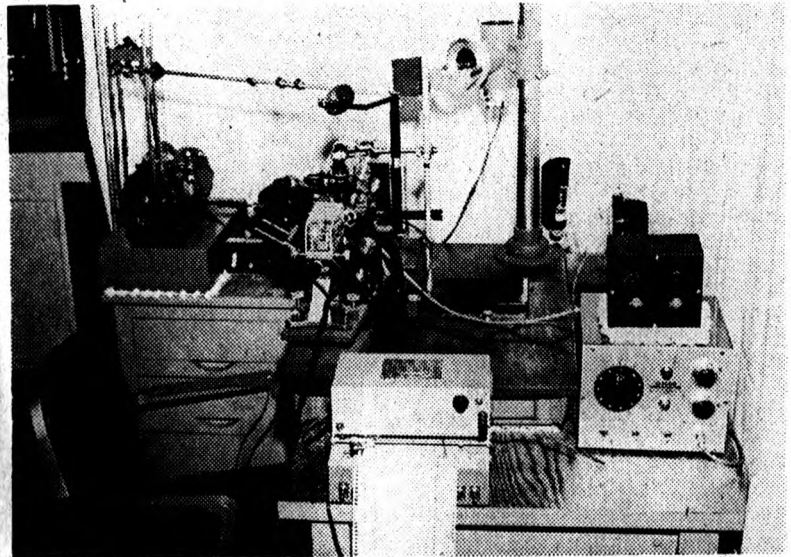
Dr. Nicholas Petrakis and Mary Davis are pictured at work in the Tissue Culture and Isolation Laboratory of the Cancer Research Institute.

Cancer Research Institute Development Report

(Continued from Page 1)

activity. She is assisted by Lucy C. Castro.

Dr. Nicholas Petrakis, is engaged in studies of conditions which influence the maturation of normal and leukemic blood and bone marrow cells. These studies include the use of microspectrophotometric techniques, *in vitro* blood and marrow tissue cultures and the implantation of Millipore Diffusion Chambers subcutaneously in human patients. The latter contain normal and leukemic cells so as to study maturations of this group of malignant cells under the influence of factors in the recipient's body fluids. Studies are also being conducted on the properties of hemoglobin from the red blood cells in cancer patients. These involve techniques of Radioactive chromi-



Instrumentation for micromanipulation and time-lapse motion picture photography of human cells in tissue culture. (In Cell Research Laboratory; Cancer Research Institute.) (Picture is of equipment only.)

um tagging and starch-block electrophoresis. Associated with Dr. Petrakis are Dr. Salvatore Lucia, Marie Doherty, Mary Davis, and under Dr. Petrakis' supervision, Chad Calland assists in the teaching activities by distribution of Cancer literature to students under the Undergraduate Teaching Fund.

Henry D. Moon, A.B., M.A., M.D., Chairman of the Department of Pathology, has been actively engaged in studies of fibroblasts as the "target cell" of the pituitary growth hormone or "somatotrophin." Assisted ably by Leone St. Vincent, A.B., and more recently by Virginia Gentoft, A.B., Dr. Moon has demonstrated the direct action of this pituitary hormone upon cell

growth rate. He had already identified this hormone with the occurrence of a variety of cancers in rats.

Herbert F. Traut, B.S., M.D., James A. Merrill, A.B., M.D., Dr. David A. Wood, and Eileen B. King, A.B., M.D., are examining the response of tumors of the uterus to x-irradiation by use of refined cytologic methods developed earlier by Papanicolaou and Traut. This group is broadly interested in cancers of the female genital organs with particular emphasis on the pathology and natural history of these tumors. Cells cast off from patients' cervixes are being examined before therapy for

usually to predict with accuracy how a given tumor will respond to treatment. Assisting in these studies are Jean V. Kearney, B.S., and Alfred J. Reynaud.

In the Cell Research Laboratory, T. Timothy Crocker, A.B., M.D., Lester Goldstein, A.B., Ph.D. and Relda Cailleau, A.B., M.A., Sc.D., are assisted by Julie Micou, A.B., Joyce Banks, A.B., Grace St. Amand, B.S., Thomas McClure, A.B., M.A. and Beryl Ingram, A.B. in two major programs. These were initiated simultaneously with the view to studying (1) the cellular and tissue characteristics of human lung cancers and (2) some events inside cells which would cast light on the relation between nucleus and cytoplasm. Both studies involve normal and cancer cells or tissues in order to achieve comparisons between cells in these two states. Techniques employed include (1) tissue and organ culture, (2) time-lapse motion picture photography and micro-surgery of mammalian cells, (3) autoradiography and (4) animal

and human implantation of tumors enclosed in "Millipore Filter Chambers."

Although these descriptions of researches currently in progress are correct, they are not "the whole truth" since many cooperative research programs are being carried on between the Institute and other Departments. In some cases, the Institute staff has been expanded to facilitate important collaborative efforts. One example is seen in the recent welcome arrival of Paul H. Guttman, A.B., Ph.D., M.D., who will work as an experienced pathologist with Henry I. Kohn, A.B., M.D., Ph.D., of the Radiological Laboratory, in studies of late radiation effects, and with David M. Greenberg, A.B., Ph.D. and Gertrude Blumenthal, A.B., Ph.D., of the Department of Biochemistry, in experimental chemotherapy of animal tumors.

Finally, as a contribution to the Medical Center at large, the Institute brings as Visiting Professors, noted scientists in various fields of cancer research. These men offer instruction and stimulation to a variety of audiences, including groups of medical students and specialists in various departments of the Medical School.



Mary Davis and Carla Schultz are pictured in the Hematology Laboratory, which is one of the many aspects of study under Cancer Research.

Open For Summer Jobs In Europe

Job opportunities in Europe this summer . . . Want to work this summer on a German farm in Bavaria, at a resort in Sweden, on the French seacoast looking after children, on construction in the Rhineland, on reforestation in the mountains, or in the fishing industry of Norway?

Well, these and many other jobs in Italy, Spain, England, and Switzerland are open by the consent of the governments of these countries to American university students coming to Europe the summer of 1959.

Last year, the first group of American students made their way across the Atlantic to take part in the actual life of the people of these countries. The success of this project last summer has caused a great deal of enthusiastic interest and support both in America and Europe.

This year, the program has been expanded to include many more students and jobs. American-European Student Foundation (a non-profit organization) is offering these jobs to students for Germany, Scandinavia, England, Austria, Switzerland, France, Italy, and Spain. The jobs consist of forestry work, child care work (females only), farm work, hotel work (limited number available), construction work, and some other more qualified jobs requiring more specialized training.

The purpose of this program is

to afford the student an opportunity to get into real living contact with the peoples and customs of Europe. In this way, a concrete effort can be made to learn something of the culture of Europe. In return for his or her work, the student will receive his or her room and board, plus a wage. However, students should keep in mind that they will be working on the European economy and wages will naturally be scaled accordingly. The working conditions (hours, safety regulations, legal protection, work permits) will be strictly controlled by the labor ministries of the countries involved.

In most cases, the employers have requested especially for American students. Hence, they are particularly interested in the student and want to make the work as interesting as possible. They are all informed of the intent of the program, and will help the student all they can in deriving the most from his trip to Europe.

Also, this year, the Foundation has been allowed the ability to obtain voyage tickets for the student at a 10% reduction. This has to do with all traveling to Europe and back, and while there.

For further information on the placement services and travel arrangements, write American-European Student Foundation, PO Box 34712, Vaduz, Liechtenstein, Switzerland.

Dr. Stone Presents Paper on Radiation

(Continued from Page 1)

to clinical use which could produce x-rays and electrons of such (40 to 50 million volts) energies—but a synchrotron of the same size and weight could produce 70-million volt radiations and thus allow the investigation of a range so far not examined . . . The order was given for such a machine and it was installed in 1951. "It took from then until July, 1956, to put it in proper shape to treat patients," Dr. Stone stated.

After describing the technical aspects of the highly complex radiological unit, Dr. Stone offered some comments based on the treatment of 71 patients who were chosen for therapy because they had less than a 50 per cent chance of five-year survival with standard radiation treatment. Some advantages to the synchrotron:

"It is easier to apply any desired dose to deep seated lesions . . . It is possible to deliver adequate dosage to deep seated lesions in very stout patients with relatively little effect on the skin and superficial structures . . . It is possible frequently to avoid normal structures with simple techniques . . . The systemic reactions have been mild for the tumor dosage delivered."

"Some principal areas of usefulness are: Advanced lesions of the uterus that can be treated without additional radium—because of uniform dosage through the pelvis . . . Lung cancer—easier to place the region of largest absorbed dose deep in the chest . . . Cancer of the paranasal sinuses, pharynx and tongue—because bone does not interfere and frequently single fields can be used . . . Cancers of the bladder—because of ability to irradiate uniformly the involved region."

There are disadvantages, too: "The synchrotron is a large, clumsy apparatus that requires a highly skilled crew to maintain it."

"The time and effort required to change field shape (the area through which the radiation beam passes) is much greater than with conventional x-ray equipment . . . In many cases, the radiologist can no longer rely on the clinical evidences of radiation reaction to judge when treatment should be altered or terminated."

"Of the 71 patients who have been treated, 29 have already died—within two years of starting treatment. This high figure is to be expected when advanced cases are accepted for treatment," Dr. Stone concluded.

Trim-a-Limb Party Success



Wednesday, December 10, 1958 was the date of the first Annual Trim-A-Limb Party. The Christmas Tree in the Lounge of the Student Union was decorated by students, who then enjoyed refreshments around the tree. It was a thoroughly enjoyable afternoon, and a pleasant break from the study and grind of school. This is one of the many new Annual events instituted by the Student Union.

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'THE CASE OF DR. LAURENT'

Earlier marriages, larger families . . . this is the trend among college students. Courses in Family, in fact, have increased proportionately on campuses all over the country. While all this goes on, one of the greatest evolutions of thought of the century is taking place concerning childbirth. Many mothers are giving birth today without pain or anesthesia, by the new 'natural childbirth' method . . . not only in this country but throughout Europe as well.

Now for the first time in motion picture history, a film has been released to the public that graphically illustrates the triumphant experience of 'natural childbirth.' Called "The Case of Dr. Laurent," it stars Jean Gabin, as a crusading doctor who introduces the new method to a backward community, and Nicole Courcel as his courageous young patient, in a warm, human story centering around an authentic delivery scene.

"The Case of Dr. Laurent" brings to light the fact that until recently women accepted suffering during labor as part of their natural destiny. The words of the Bible—"In sorrow shalt thou bring forth children"—echoed through the ages.

But now without pain, a woman discovers that childbirth is an experience of great wonder and joy. A mother in full consciousness, with the moral support of her husband, can participate in the highest act of creation we know . . . bringing forth a new life. By the 'natural childbirth' method, she can actually see her tiny infant emerge from her own body, hear him utter his first cry, and receive him ecstatically in her arms. This is the miracle of nature. Eminent social psychologist, Helene Deutsch, claims that when accomplished smoothly, it can be the most complete, fulfilling experience of a woman's life.

And yet the amazing part of a painless, conscious childbirth is that it is not really amazing at all; because it is founded upon the physiological functioning of the body. A mother having her baby naturally goes with her husband to medically conducted exercise and lecture classes during her last stages of pregnancy. Here she learns to breathe properly, using her abdominal muscles for the delivery instead of against

it. And she also learns exactly what happens inside her body as her infant makes its journey from womb to world.

Teachers of the 'natural' method claim that it is ignorance of the facts of birth that causes pain. We fear the unfamiliar, the things we know nothing about. Most women misinterpret their bodily sensations during labor and tense those muscles that should be relaxed. Moreover, their fear of suffering produces tension throughout their body, additional pain, and a more difficult delivery.

This evolution in the concept of childbirth is less resisted by doctors than is most change . . . because doctors are aware of the dangers of **anesthesia**. In 1952 anesthesia took fifth place as the cause of maternal mortality in New York City. It has been responsible for stillbirths and mental defects; and now laboratory studies reveal that babies born through deep anesthesia may grow into adults who suffer premature heart conditions and have predispositions toward other illnesses as well.

But the mother who gives birth naturally will have a shorter labor, less tendency toward abnormal bleeding, fewer complications and a quick convalescence since her physical condition and muscle tone is good. And she looks forward to having more babies.

Furthermore, because mother and baby are not drugged at birth, their sharing in the birth experience creates an immediate deep bond between them. Frequently an anesthetized mother remains indifferent to her baby for months because she has been denied the first vital contact with him through the childbirth experience.

You'll see for yourself the miracle of 'natural childbirth' in "The Case of Dr. Laurent," as doctor and patient work together to bring about this remarkable event.

I ONLY HEARD

By LINDA SHORE

Russ Ziebel has at last achieved maturity. A party was thrown to announce this fact at "the Pharmacy Fun Flat" on Ortega street. Among those present to sing happy (hic) twenty-first birthday to Russ were Jon Blumenstock, Gene "sack" Cunningham, Rod Trego, Bob Wise, and Harry Avila.

Kappa Psi fraternity has kept the party ball rolling at a rapid speed. Besides having two semi-blasts last month, they threw a Halloween costume dance to which many strange people arrived. "Two-gun" Norby, "Blue-beard" Applegate, "Sexy" Reg Carlin and "Contacts" Pfarrer were there to scare away any lurking spooks. Last weekend, Kappa Psi gave a roaring party at which many San Francisco State students were sufficiently impressed by the sophisticated Fraternity men.

The Phi Delt's gave a dance Saturday night after the Axe Revue to celebrate their "Open House." Among those enjoying the Phi Delt's rambling party pad were Don Lee, Gary McCown, Joyce Taylor, Don Sturdevant, and Marshall Storz.

Overheard comments in the School of Pharmacy:

Dr. Schwartz's Dose Quiz isn't really THAT bad, is it? (Laughter). . . Boy, Dr. Goyan really pampers those Freshmen. They have even got a Hi Fi set in the Chem 5 lab. . . Did you know that Mr. Feinglass doesn't even recognize the structure of Morphine? . . . Guess what? Joyce Taylor finally found a job. (Miracles never cease).

The Night Before Christmas

(How to have a safe and happy Christmas)

"Twas the night before Christmas when all through the house
Not a creature was stirring, not even a mouse,
When down through the chimney all covered with soot,
Came the "Spirit of Fire" an ugly galoot.

His eyes glowed like embers, his features were stern,
As he looked all around for something to burn.
What he saw made him grumble, his anger grew higher,
For there wasn't a thing that would start a good fire.

No door has been blocked by the big Christmas tree,
It stood in the corner leaving passageways free.
The lights that glowed brightly for Betty and Tim,
Had been hung with precaution so none touched a limb.

All wiring was new, not a break could be seen,
And wet sand at its base kept the tree nice and green.
The tree had been trimmed by a mother insistent,
That the ornaments used be fire resistant.

And mother had known the things to avoid,
Like cotton and paper and plain celluloid.
Rock wool, metal icicles and trinkets of glass,
Gave life to the tree; it really had class.

And would you believe it right next to the tree,
Was a suitable box for holding debris.
A place to throw wrappings of paper and string,
From all of the gifts that Santa might bring.

The ugly galoot was so mad he could bust,
As he climbed up the chimney in utter disgust.
For the folks in this home had paid close attention,
To all the rules of good "Fire Prevention."
Anonymous

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YES ☐ NO ☐



Do you refuse to worry about things you can't do anything about?

YES ☐ NO ☐



Would you be completely at ease if you found yourself suddenly in the spotlight at a social gathering?

YES ☐ NO ☐



Would you vote for establishing an international language other than English?

YES ☐ NO ☐



Can you compete with another person without feeling hostile?

YES ☐ NO ☐



Do you ever say things you don't believe, just to start a discussion?

YES ☐ NO ☐



When you're very hungry, do you like to try out strange foods?

YES ☐ NO ☐



Do you enjoy being called upon as an umpire to settle disputes?

YES ☐ NO ☐



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*IF YOU HAVE ANSWERED YES TO 6 OF THESE QUESTIONS, YOU ARE A PERSON WHO THINKS FOR HIMSELF!

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★

SPORTS

★

Notes on the Union Sports
And Recreation Program

By HIRO MIYAHARA

ALL SCHOOL BASKETBALL—An all school basketball team is being organized by Bud Alexander, Union Recreation Director. Sign ups are now being taken at the athletic control desk. Practice sessions will be held every Tuesday and Thursday evenings from 5 to 6:30 p.m. A 12 man squad will be selected to represent the U.C. Medical Center in games against local city and college teams.

SKI TRIP—The Millberry Union has received two weekends at the A.S.U.C. Ski Lodge at Norden, California for February 13th, 14th and 15th and February 27th, 28th, and March 1st. Reservations are now being taken for a chartered bus, group trip, for these two weekend dates. Reservations may also be made for individual trips for any other weekend or week day desired.

SKI CLUB—Under the auspices of the Millberry Union the U.C. Medical Center Ski Club is being organized by Jack Cleveland, ski instructor and member of the Union Athletic Wing Stag. The first organizational meeting will be held Wednesday evening, January 7th at 7:30 p.m. at the Millberry Union. Three instruction sessions are planned prior to the two group ski trips scheduled in February. Included in these sessions will be movies and individual instruction. Sign-ups for the Ski Club are now being taken at the Athletic Control Desk.

SWIM INSTRUCTION For Children—There have been a number of inquiries as to the possibility of having a program of swimming instruction for children of students and faculty members. Such a program can be put into effect as soon as there is a sufficient number of people interested. All those interested may contact Bud Alexander for information.

VOLLEYBALL LEAGUE—An open volleyball league will get under way on the first week after Christmas vacation. This

league will be open to any student, faculty or fraternity team. Entry fee will be \$2.50.

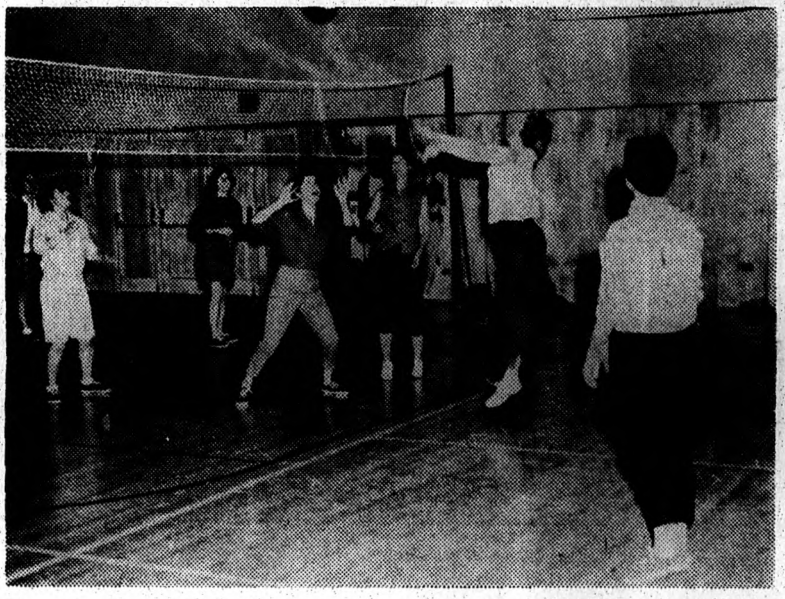
CAL BASKETBALL TICKETS—Tickets for all Cal home basketball games can be obtained at the central desk of the Millberry Union. Athletic card holders are admitted free to an unreserved seat at all games except the Stanford game. General admission tickets are also on sale for all games at the central desk. The cost for these reserved seats are \$1.75. Spouse tickets are also available. All tickets go off sale three (3) days prior to the game.



Looks like fun? ? ? See how you may enjoy a weekend in the snow.



The Staff of the
Guy S. Millberry
Book Supply Store
wish everyone
a very
Merry Christmas
and a
Happy New Year.



Tournaments are well under way and the women's volleyball teams are going strong.

Intramural and
Tournament Standings

The following standings for the intramural basketball and volleyball leagues, individual tournaments, and distance swim event have been compiled and released by Jay Vierra, sports assistant.

Intramural Basketball	
Fraternity League	
Kappa Psi	3-0
Xi Psi Phi	3-0
Psi Omega	2-1
County Hospital	2-2
Phi Delta Chi	1-2
Nu Sigma Nu	1-3
General Services	0-3
Independent League	
Freshmen Meds.	4-0
Soph. Meds.	3-1
Senior Meds.	2-2
L.D.S.	2-2
Faculty	2-2
U.C.H. House Staff	2-3
Buildings/Grounds	0-5

Women's Volleyball	
Junior Class No. 1	6-0
Third Year Nursing	7-2
Senior Dental Hygiene	6-2
Pharmacy	6-2
Junior Class No. 2	6-4
First Year Nursing No. 2	5-3
Physical Therapy	2-6
First Year Nursing No. 1	2-8
Terry's Pirates	1-8
Millberry Staff	0-8

Individual Tournaments	
Squash—This is the standings up to this date; however, all the result cards have not been turned in.	
Jack Clark	2-0
Morton Rothstein	2-0

Roger Kisner	2-0
Bill Atchley	1-1
Jack Blanchei	0-2
H. M. Burridge	0-1
John Merchant	0-1
Richard Frohman	0-1

Table Tennis—The result cards have been turned in but the individuals have not filled them out correctly so these standings will be withheld and will be released at a later date.

Distance Swim	
Independents—total: 71.5 miles	
Admiral Riebe	14 miles
Dr. Albert Trucker	13 miles
Joe Walibe	12 miles
Sharks—total: 53.9 miles	
Don Anderson	15 miles
Gerald Hays	12.5 miles
Dick Manson	9.3 miles
Sea Horses	
Arnold Hirshman	3.5 miles
Bud Alexander	3 miles
Dr. Frank Goyan	2.7 miles

The
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wishes
everyone at the
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Merry Christmas
and
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