

# The Synapse

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## HEALTH SCIENCES EXPOSITION - 1962

### HEALTH SCIENCES EXPOSITION - 1962

Once again it is the time of the year when birds are singing, bees are buzzing and flowers are in bloom. That means only one thing: it is time for the third annual Health Sciences Exposition at the U.C. Medical Center. The Health Sciences Exposition, or *Science Fair* as it is known by those who favor efficiency and speed in speech, is sponsored by the student chapter of the American Pharmaceutical Association. We are the ones who do the organizing and leg work, the liaison men, so to speak, between the various departments and schools participating in the exposition.

The Health Sciences Exposition was initiated two years ago by the APhA president, Bill Barr. It was composed of over twenty different departments including the schools of dentistry, medicine, nursing and pharmacy. The exposition was a successful attraction to hundreds of people including many high school students, acquainting them with the health science profession. The next exposition, one year later, was handled by APhA president, Bob Anderson. Again we found we had a great attraction to the public and high school students and decided, in view of the number of students who came to the event each year, to attempt an annual exposition.

This year's Health Sciences Exposition will be housed in the Millberry Union gymnasium on May 17, 18 and 19, and will be open to the public from 9 a.m. to 5 p.m. on all three days. The APhA student chapter president, Sam Kidder, has promised us an exposition as interesting as the first two. This year there are twenty-four departments participating, again including the schools of dentistry, medicine, nursing and pharmacy. The exhibits will include projects accomplished, and progress toward future goals, by the various departments at the Medical Center. The schools will be interested in giving the public, particularly the students, a view into their particular branch of the health profession. The exhibits are designed at a level that makes them interesting to students and employees of the Medical Center as well as the general public. Everyone at the Center is welcome to the exposition to see what is going on about them in the health sciences.

Besides the Millberry exposition, guided tours of the health science schools will take place. This proved to be a big hit with the high school students last year. The laboratories and class rooms of the health science student will be inspected by the students and the scholastic requirements placed on our students for graduation explained by instructors or qualified guides. We hope to gain the interest of the high school student and start him thinking about the health science profession as a career.

# HEALTH SCIENCES EXPOSITION

## A.Ph.A. TO SPONSOR THE HEALTH SCIENCES EXPOSITION

The Health Sciences Exposition is sponsored by the University of California Chapter of the American Pharmaceutical Association (A.Ph.A.). The Exposition runs concurrent with guided tours of the Medical Center sponsored by the Committee to interest Students in the Health Sciences. It is the combined efforts of these two groups that bring recent developments in the health sciences into public view. The Exposition Committee consists of the following people:

*Samuel Kidder*—Committee Chairman

*Wayne Foster*—Publicity Chairman

*Robert Cooper*—Tour Chairman and liaison to the Committee to Interest Student in the Health Sciences

*Tom Fowler*—Physical Arrangements Chairman

*Dr. Walter Singer*—Faculty Advisor

Recognition should also be shown to the many Pharmacy students who acted as liaisons between the exhibitors and the Exposition Committee. Without their efforts the Exposition would be impossible.

— Samuel Kidder

Student Chapter President, A.Ph.A.

## COMMITTEE TO INTEREST STUDENTS IN THE HEALTH SCIENCES

The Committee to Interest Students in the Health Sciences is grateful to the Student Chapter of the American Pharmaceutical Association for organizing the Health Sciences Exposition, and allowing this to be used in conjunction with student recruiting. All of the schools and curricula on campus are anxious to reach qualified high school students and to encourage their seeking a career in the health sciences. This Exposition permits us to demonstrate some of the research projects on campus, as well as arrange for tours of various schools on this campus.

The members of the Committee to Interest Students in the Health Sciences are:

*Dr. Robert H. Crede*, *Dr. B. J. Hartman*, *Mr. Terrence Horner* (ex officio), *Mr. E. James McCartney* (ex officio), *Mr. Gary Moore* (ex officio), *Mrs. Marjorie Newton*, *Dr. Walter Singer*, and *Mrs. Marjery Wagner*.

— John Hutchings, M.D.  
Chairman,  
Committee to Interest Students  
in the Health Sciences

## HEALTH SCIENCES EXPOSITION

— TOUR SCHEDULE —

May 17, 18, and 19

(Saturday morning tours only.)

### MORNING . . .

9:15 to 10:30—Dentistry, Pharmacy, Nursing, Physical Therapy, Dietary.

10:45 to 12:00—Medicine, Pharmacy, Nursing, Physical Therapy, Dietary.

### AFTERNOON . . .

1:30 to 2:45—Dentistry, Pharmacy, Nursing, Physical Therapy, Dietary.

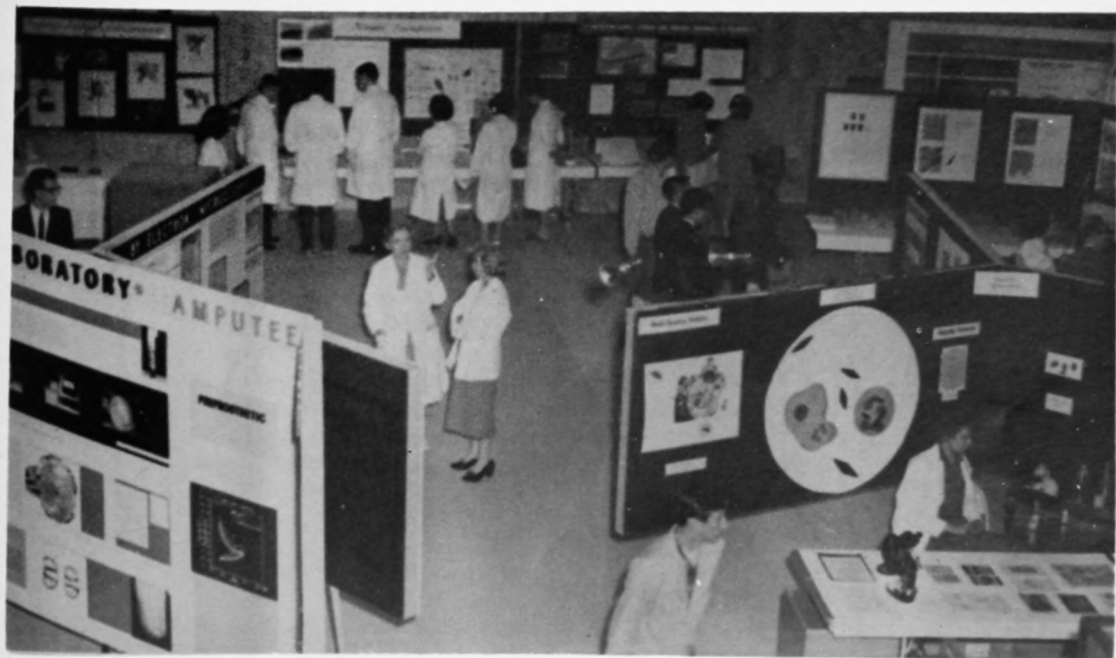
3:00 to 4:30—Medicine, Pharmacy, Nursing, Physical Therapy, Dietary.

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"I have TOO a sense of humor, but I still say NO!"

The Student Branch of  
AMERICAN PHARMACEUTICAL ASSOCIATION  
MEDICAL SCIENCES EXPOSITION



# The Student Branch of the American Pharmaceutical Association

presents:

## MEDICAL SCIENCE EXPOSITION

The departments and schools participating in the Third Annual Health Sciences Exposition are:

1. Anatomy
  1. A small Perfusion Apparatus for the Study of Surviving Isolated Organs—*Dr. Lyon*
2. Anesthesiology
  1. Axillary Block of the Brachial Plexus—*Dr. de Jong*
3. Cancer Research Institute
  1. Hematology Exhibit—*Dr. S. Masouredis*
  2. Cellular Physiology Exhibit—*Dr. Crocker*
  3. Tissue Culture Cells—*Dr. Cailleau*
4. Cardiovascular Research
  1. Latest Developments in Carbon Dioxide and Oxygen Transport—*Dr. J. W. Severinghaus*
5. Dentistry, School of
  1. Ten Exhibits on Sub-headings of Dentistry—*Dr. Hartman*
6. Hooper Foundation
  1. Seven Medical Research Training Exhibits—*Dr. Lionel Farber and Dr. Peter Lerke*
7. Medical Technology
  1. Medical Technology and Exfoliative Cytology—*Ramona Greefkens and Jacqueline Michell*
8. Medicine, School of
  1. University of California School of Medicine—*Sara Ross*
9. Neurology
  1. Electroencephalograph—*Dr. Bill Garoutte*
10. Nursing, School of
  1. Nursing Education—*Vivian Malmstrom*
11. Biomechanics Laboratory
  1. Biomechanics Laboratory—*Dr. Jean C. Lieberman*
12. Ear, Nose, and Throat
  1. Endoscopic Photography—*Dr. Francis Sooy*
13. Pathology—*Dr. Robert Wright*
  1. Tissue Cultures
  2. Pulmonary Surface Membrane
  3. Nutritional Deficiencies in Primates
  4. Electrol Microscopy
14. Pharmacy, School of
  1. Study of Oral Flea Repellants—*Dr. W. Singer and Jack Thompson*
  2. Tablet Coating Demonstration—*Mr. Dean*
  3. Brightness Meters—*Dr. Frank Goyan*
  4. Hospital Parenterals in Pharmacy—*Dr. Donald Brodie*
  5. Steric Structures—*Dr. Kumler*
15. Pharmacology
  1. Title not available
16. Physical Medicine
  1. Team Concepts in Rehabilitation of Paraplegics—*Dr. Bard*
17. Physiology and Cardiovascular Research
  1. Lung Structure-Function Relationships using very Rapid Freezing—*Dr. Staub*
18. Preventive Medicine—*Dr. Melvin Lee*
  1. Changing Patterns of Nutrition
  2. Venereal Disease Patterns
19. Proctor Foundation—*Dr. William McEwen*
  1. Crocodile Tears
  2. Dry Eye
20. Radiological Laboratory
  1. Radiological Laboratory Program—*Dr. Gail D. Adams*
21. Surgery
  1. Title not available
22. Medical Records
  1. California Association of Medical Librarians—*Miss Laird*

# From the Desk of the Union Director

To: *The Synapse*

From: Mr. R. A. Alexander

Although the 1961-1962 academic year is very rapidly drawing to a close, your attention is called to a variety of events still on your Millberry Union calendar. A brief run-down of these events follows:

## FILMS

Friday, May 11—*Olympia* (The 1936 Olympic Games.)

Friday, May 18—*Butterfield 8* (Based on John O'Hara's novel.)

Friday, May 25—*Portraits of Shame* (Japanese, with English sub-titles.)

(All films presented at 7:30 p.m. in the Medical Sciences Auditorium.)

## GRILLER STRING QUARTET

This outstanding musical foursome will give two more concerts this semester—one on Tuesday, May 8, and their final program on Thursday, May 24. The Griller concerts are presented during the noon hour in the Union's Main Lounge. No admission charge.

## NOON LECTURES

Very popular again this year, the *Man and His Ecology* series will conclude with lectures on May 9 (Dr. E. M. Berger: *Youth in Search of Identity*); May 16 (Professor N. J. Hoff: *The Aeronautic Engineer Looks at the Future of Man*); and May 23 (Dr. C. Sagan: *Intelligent Extra-terrestrial Life*). These free lectures are presented during the noon hour in the Medical Sciences Auditorium.

## ART EXHIBITS

The two exhibits presently on display (*Painting* by Dr. M. J. Horowitz and the *Parke-Davis History of Medicine* prints) will be available through May 13. Our final two shows of the year will open on May 15, and will conclude on June 7. Featured will be a collection of intarsias by San Francisco artist, R. Biancalana in addition to the work of New York photographer, John Caminiti.

## NOON CONCERTS

The final noon concert of the year will be given on Tuesday, May 15, 1962, in the Union Music Room. The last program will highlight Miss Patricia Michaelian, a delightful and exceedingly talented young (12 years old) piano student from the San Francisco Conservatory of Music. No admission charge.

## ... AULD LANG SYNE ...

It is near impossible to believe, but another school year (our fourth) has flown by, and in a very short time, plans will be formulated for the 1962-1963 year. In this regard, your suggestions and ideas referable to new (and *old*) programs for next year are enthusiastically solicited at this time—drop by Room 240 the first chance you have.

An *over-the-shoulder-glance* at the year now ending reveals that in almost every way, it was our biggest and best yet. Quantity-wise, the Union Board offered the largest variety and total number of events in Millberry's short history. More important, however (and we hope all Union members will agree), the Board maintained a high *standard* of quality in its programming, bringing members the best available social, cultural, and recreational activities.

Budget-wise, it can be said that the Millberry Union has attained greater *financial maturity and stability*. Still, the cost of labor and materials continues an upward price spiral, necessitating a persistent review of program plans, operating hours, numbers and levels of personnel and other policy and procedural matters under the auspices of the Union Board and its staff.

To those graduating, we extend best wishes for complete personal and professional success in the years ahead. Come back and visit us—soon and often! To those returning in the Fall, we wish a most pleasant and relaxing summer vacation. See you in the Union next September!



"WELL, I DROPPED THAT COURSE."



## PARALYTIC POLIOMYELITIS

The number of cases of paralytic poliomyelitis reported nationwide in 1961 was the lowest recorded since 1951, when paralytic illness was first separated from the total number of cases of poliomyelitis. In 1951 there were 10,037 cases of paralytic poliomyelitis, while in 1961 there were 864, a decrease of 91 per cent. That this decrease in incidence of paralytic poliomyelitis can only be attributed to the utilization of Salk vaccine is supported by the following statistics:

Year	Vaccine Status	No. Cases of Paralytic Poliomyelitis	
		U.S.	California
1954	None available	18,308	2,600
1956	Limited Nationwide	7,911	1,334
1957	Available Nationwide	2,499	290
1961	Available Nationwide	864	82

A recent survey, made in the fall of 1961, on the poliomyelitis vaccination status of students at the Medical Center showed the following: Of 1307 students answering the questionnaire, 332, or 25 per cent, had had less than three inoculations; 434, or 33 per cent, had had three inoculations; 541 had had four inoculations. In other words, 796, or 58 per cent had not had the basic three doses and the booster which give maximum protection.

The highest incidence of paralytic poliomyelitis since Salk vaccine has been available has occurred in unvaccinated or inadequately vaccinated persons. The U.S. Public Health Service reports show that paralytic poliomyelitis has been prevented in approximately 90 per cent of those who have received the basic three doses and the booster. Paralytic poliomyelitis is usually more severe in adults than in children, and the bulbar or respiratory forms, against which the vaccine is most effective, are the most likely to be fatal. The paralytic case-fatality ratio increases with age, from 4.5 per cent in the 0-4 age group to 18.6 per cent in the 20-29 age group and to 44.6 per cent among those age 40 and over (U.S. Public Health Service).

The new oral vaccine against poliomyelitis was developed in the U.S.A. after many years of research. Its safety and effectiveness were established by vaccination on millions of children and adults in field trials completed in 1959. Since the most extensive trials were carried out in different republics of the U.S.S.R., this American vaccine was first approved for general use in the Soviet Union at the end of 1959. During the first 10 months of 1960, approximately 88 million persons in the Soviet Union and Allied countries were vaccinated with the oral vaccine with no untoward effects. During the spring of 1960, over 300,000 Americans received the oral vaccine. The subsequent complete, or almost complete, elimination of poliomyelitis in the countries and areas in which extensive field trials were made indicate the possibility for eventual elimination of polio with the aid of the new oral vaccine.

Oral poliomyelitis vaccine for each of the three types of poliomyelitis virus is now available and will be given at the Student Health Service Dispensary, 380 U.C. Hospital, on Mondays through Fridays, starting May 7, 1962. It is highly recommended that *all* students, including those who have had complete series of Salk vaccine, avail themselves of this most effective vaccine.



## TO THE STUDENTS FROM THE PROVOST

To meet their responsibilities in the years ahead, California educational institutions must continue to admit rapidly increasing numbers of students. The cost, especially for construction, will be substantial.

Building programs for the immediate future are expected to depend in large measure on bond financing. The voters are being asked to approve the issuance of \$270 million in State construction bonds, through passage of Proposition 3 on the June 5 primary election ballot.

This, therefore, seems an appropriate time for me to review some of the needs, both of the State as a whole and of the San Francisco Medical Center, in terms of the development of California public higher education.

Between this spring and the fall of 1965, enrollments in your statewide University, the State College system, and the public junior colleges are expected to increase by 45 per cent, to a total of 340,000. This is a growth rate nearly double that of California's over-all population. Moreover, this is only the beginning. During the 15 years ending in 1975, University enrollments will have grown by an estimated 147 per cent; those in State Colleges, by 235 per cent; in junior colleges, 142 per cent.

The University, during the next two years alone, must begin the construction of two new campuses—and must expand its facilities on all seven of the existing ones. The San Francisco Medical Center, with its special mission in the health professions and sciences, will undergo continuing rapid growth.

In terms of enrollment, the San Francisco campus will grow from just under 1900 students this year to more than 2400 in 1971. These figures reflect only our growth in the basic professional curricula, graduate academic studies, internship and residency training, and paramedical programs. Our responsibilities in postdoctoral research training, in research itself, and in continuing education for the practicing health professions are likewise increasing.

The coming year, therefore, will mark the beginning of important additions to the Medical Center's physical plant. Construction will begin on the Health Sciences Instruction and Research Building immediately adjoining the Medical Sciences Building, and on a major addition to the Clinics Building.

Funds for building needs here and elsewhere will not come entirely from bond sales, of course. Current tax revenues will support a part of the program, and non-State funds—primarily grants and gifts, both public and private—will help substantially. However, the bond issue to be authorized by Proposition 3 would support approximately three-fourths of the University and State College construction program for the next two years, and would provide substantial assistance to the public junior colleges.

While most of the construction program is for higher education, urgent needs also exist in the Department of Mental Hygiene, the prison and youth correction systems, and the Division of Forestry. A significant part of the Mental Hygiene program is the eventual relocation and expansion of the Langley Porter Neuropsychiatric Institute on a new site adjoining the San Francisco campus.

The coming years of growth present us with major challenges, both as Californians and as members of the Medical Center community. I am confident, however, that we shall meet them.

— J. B. deC. M. Saunders  
Provost

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## MILLBERRY UNION HOSTS WORLD FAIR EXCURSION

Seventy-six students, faculty members, alumni and employees from the University of California Medical Center at San Francisco and the U.C. Campus at Davis recently enjoyed a three-day excursion for the opening of the Seattle World's Fair. The excursion, sponsored by the Guy S. Millberry Union, proved to be highly successful. Under the excellent staff leadership of Mrs. Susan Sack, the Union was able to obtain Greyhound transportation, lodging in Seattle, and general admission tickets to the fair for the package sum of only \$39 per person.

The group, filling two chartered buses, left San Francisco on the evening of April 19 and returned on April 23. After an overnight drive, the group arrived in Seattle at noon time the day before the fair's opening in the city rated the highest priority vacation spot by thousands for the coming summer. Many consider seeing Seattle and the Northwest as worthwhile as seeing the fair itself; however, passengers on the Millberry Union excursion will be among the first to say that the fair itself is not to be overlooked and that anyone, whether he spends two days or two weeks in Seattle, is in for a superb treat. Many on the excursion raved and made special comment with regard to the ten-million dollar U.S. Science Pavilion which is only one of the outstanding exhibits.

Indications are that a large number from the University of California plan to attend the fair on at least one of the three follow-up excursions planned for the summer months. The first is set for June 8, 9, 10 and 11 with lodging in Seattle on June 9 and 10.

Those interested in obtaining additional information with regard to this trip may do so by contacting the Union Recreation Supervisor, Room 243, Millberry Union, MO 4-3600, Ext. 723.

— BUD ALEXANDER,  
RECREATION SUPERVISOR

## THE SYNAPSE

Room 249 Millberry Union U.C. Medical Center  
San Francisco 22, California MOntrorse 1-1444

BOB COMMER, EDITOR



Look Ma! I'm a Dental  
Hygienist.



*"It was a momentous discovery until we found  
that the patient was upside down."*

CAMPUS COMEDY



(THIS NEW, REVISED 12TH EDITION CONTAINS  
VITAL INFORMATION NOT FOUND IN PREVIOUS  
EDITIONS YOU HAVE JUST READ IT.)