Why do Seventh-day Adventists live longer than their non-Seventh-day Adventist counterparts? A research project jointly sponsored by the School of Medicine and the School of Public Health may reveal the answer to this question, according to Richard T. Walden, MD, associate professor of pathology at the School of Public Health and director of the School of Public Health's death certificate project.

The current research project examining the causes of deaths among California Seventh-day Adventists had its beginnings in 1954, when Frank R. Lennox, MD, then associate professor of preventive medicine and public health, and director of the public health department at the Loma Linda University Hospital, decided to form a non-smoking population.

Study enlarged

Later the study was enlarged to include non-adults among California Adventists above the age of 40.

The Loma Linda University School of Public Health's death certificate project, initiated by Charles T. Smith, DrPH, dean of the School of Public Health and director of the School of Public Health's death certificate project, involves the study of the cause of death for all deaths to members of the Adventist church roster.

The Adventist church roster is the only source of death certificat

Continued on page 8

Valentine’s banquet set for February 13

A semiformal Valentine’s banquet for Loma Linda campus students and faculty is scheduled for Thursday, February 13, at the top of the Palm Springs Aerial Tramway, Palm Springs.

Cost of the banquet is $4 per person which includes the fare up the tramway, meal, and entertainment. The meal will be served at 7:30 p.m. Guests may arrive at the tramway earlier for sightseeing if they wish.

Master of ceremonies for the evening’s events will be former California Angels baseball star Al Kaline.

Continued on page 5
Your health

The School of Public Health research project about to begin comparing the frequency of diseases among vegetarians, Seventh-day Adventists and meat-eating Seventh-day Adventists poses many interesting questions and possibilities.

Research already conducted by the School of Public Health shows that Seventh-day Adventists have far less heart disease than the non-Adventist population and die at a rate of only 50 percent of the "expected rate" which is the observed rate in the general California population.

This would seem to indicate that Seventh-day Adventists are doing something right.

Of course, we can attribute our lack of lung cancer to our beliefs about smoking; our low frequency of automobile accidents to our beliefs about drinking.

But what about the findings that show that Adventists have 46 percent less strokes, 68 percent less respiratory diseases, and 60 percent less heart disease than the general population?

What's the reason? Could it be that the writings and counsel of a lady one hundred years ago have influenced a church body in such a way as to cause this dramatic difference? Could her counsels on diet and health have a direct relationship to the relatively good health statistics of Seventh-day Adventists compared with those of non-Adventists?

What about the Seventh-day Adventists who do die of strokes, respiratory diseases, or heart disease? What would be the significant statistical difference between the death rate of vegetarian and non-vegetarian Seventh-day Adventists?

The School of Public Health researchers hope to answer these questions at the completion of their study.

Adventist Peace Corps

The action taken by the General Conference of Seventh-day Adventists in August 1969 to establish an Adventist Volunteer Service Corps may have far reaching effects on the "now" generation of Seventh-day Adventists.

Briefly, the resolution states that carefully selected nonstudents, 18 years of age or over, may be eligible to serve as overseas volunteers under the auspices of the Adventist Volunteer Service. The terms of service shall be from one to two years; and that the division which accepts the volunteer shall be financially responsible for insurance and living expenses during the volunteer's service.

Many Seventh-day Adventist youth are actively engaged in programs on the home front; now their ingenuity and resourcefulness can be used to profit the world mission program of the church.

With personal income earning ability at an all time high, hundreds of young Seventh-day Adventist men and women may well be able to serve the relatively insignificant amount of money required for exchange in the Adventist by gaining living abroad for a year or two.

Too many Americans today feel that any country which isn't on the same social, cultural, and economic level as the United States is underdeveloped and backward. This is not true.

Dozens of countries in Asia, Africa, Latin America, and other parts of the world have a social and cultural level as advanced, and in some cases, even more advanced than the American level.

The Adventist Volunteer Service Corps will operate on the theory that "mission" work abroad should have as its primary objective instilling of the Christian ideology rather than the American.

Persons interested in applying to the AVSC should write to the Adventist Volunteer Service Corps, 6510 Eastern Avenue, NW, Washington, D.C. 20012.
DOZENS OF KOREAN orphans display boxes of candy and apples purchased by a group donated by the Kalindha Club. The club raised nearly $500 during its annual week of sacrificial offering.

Kalindha Club raises money
to sponsor three orphanages

Nearly $300 was raised by members of the Lindsay Hall Kalindha Club during their annual week of sacrifice. This amount, according to Melba M. Olmstead, dean of women of the Loma Linda campus. The women’s club raised the funds to help sponsor three orphanages—the Seoul Banlarium and Hospital Orphanage, Seoul, South Korea; the Cross Orphanage, Pusan, Korea; and a small orphanage in Honduras. Club members explained that some of the money be used for the poisonous fruit and deserts.

Book talk

Continued from page 2

The resurrection and the Christian hope of resurrection involve a life that is forever different from all life with which we are familiar, an imperishable life no longer limited by death, which at any time can be radically and fundamentally different from the organic form of life with which we are familiar. This means that all human language about resurrection cannot help being metaphysical. The only resurrection will ultimately disclose what really happened in Jesus’ resurrection from the dead.” Pannenberg believes that the resurrection must involve “the whole man,” and that the resurrection of Jesus would not have been originally available apart from the empty tomb. However, refreshing some may yield Pannenberg’s interest in the historicity of the resurrection. According to Pannenberg, the resurrection of Jesus is an historical event that has a significant contribution to make to the development of Christianity. It is the historical event that reveals the reality of the future for the human race. The resurrection of Jesus is an event that takes place in the present and has a bearing on the future of mankind.

Intramural ski meet

at Snow Valley will be Feb. 16

A University intramural ski meet is tentatively scheduled for February 16 at Snow Summit or Snow Valley in the San Bernardino mountains. The details of the meet will depend upon snow conditions. Events to be held are the men’s and women’s slalom and giant slalom. For more information, contact the University of Southern California intramural office on either campus.

Homecoming day

slated for former
La Sierra students

The annual alumni homecoming for graduates and former students of the former La Sierra College is scheduled for April 26 on the La Sierra campus of the University of Riverside.

The day’s events will begin with Sabbath School scheduled for 9:30 a.m. followed by the church service at 11:00 a.m. in the La Sierra Church. Bonfire festivities and a free alumni buffet dinner will be held at 6 p.m.
University Placement

DENTISTS

Canada
NSPERRA, MONTANA: Only
Dentist in town in trading area of
$10,000.

ROULTON, BRITISH COLUM-BIA: No dentist in this com-

munity. Living 7 miles away and ex-

cept for visiting dentists, a very

large SDA popula-

tion. Church and economy.

California
AVANDEL: Dentist deceased, leav-

ing practice. Ideal for a young fed-

eral with three years free rank or

will move. Two month free rent.

EL CALON: Wonderful opportu-

nity in well-established practice.

Four doctors removed. Property

will be turned to new practice.

Las Vegas has no other deanser second office.

NSA Church and church school.

BERKELEY: Dentist retired due to

ill health. Completely equipped

office available. Two months free

rent.

PANORAMA CITY: Present

owner moving. Large building with

two offices, reception room, and

private toilet. Excellent location for

a doctor interested in private prac-

tice. Patients in medium-high in-

come group. Better with new owner for

six months on. Probable basis to earn in

two years. Excellent opportunity for

right person.

RIVERSIDE: Dentist retiring. Wir-

ning percentage basis to assist in

transfer of patients. Great opportu-

nity. Complete monetary plus ben-

efits.

WHITTIER: Dentist seeking asso-

ciate, leading to partnership

Colombo
BRUSSELS: No SDA dentist in town of

3,200. Close to church school.

CANNON CITY: Few dentists in town of

3,100. Excellent opportunity.

URGENT need dentist. Church and school

available.

MADISON: Only one SDA dentist in

town of 14,000. Excellent opportunity.

CIDI: Excellent opportunity.

MONTE VISTA: Only two SDA
dentists and two physicians in

arid church school. Closest dentist

for one year. Trade area of 6,000

area of 5,000. Hospital located in

lovely farming community of

5,000. Hospital located in

Cedar Park.

SOUTHERN PINES: Instructor of

medical science three times per-

week in teaching program. 

Crude, degree, and working toward
teacher's degree.

SOUTH ROYALTON: Dentist to

take over an excellent practice in

beautiful Vermont, country living

available. SDA church and school

opportunity.

Georgia
DALTON: Excellent opportunity for

young dentist. Good community

and NSA dentist plus. SDA phar-

macists in community. Dental

Office available at low cost.

LUGOFF: Only SDA dentist in town

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opportunity.

40 percent should be your

investments.

Lambeth

REAL ESTATE PLANNING.

TELEPHONE 793-2272
Benefit program, radio columnist
top women's auxiliary activities

The Woman's Auxiliary to the Alumni Association of Loma Linda University School of Medicine is scheduling a variety of programs to coincide with the Alumni Postgraduate Convention February 14 to 16.

The annual "Do unto Others" benefit program will be on Saturday, February 15, at 7:30 p.m. in Gentry Gymnasium, Loma Linda. Alumni and auxiliary members will participate in a skit, "You Know I Can't Hear You With My Eyes Shut." Featured will be music by the Good News Company and the Loma Linda Chorale under the direction of John T. Hamilton, associate professor of music.

Proceeds from the presentation and all DUD productions are used to help families left by deceased alumni association members. The Junior Medical Auxiliary will enter a supper beginning at 6 p.m. to benefit this program.

Well known authors and illustrators will be at Gentry Gymnasium Sunday, February 16, from 10 a.m. to 3 p.m. at the Book Fair.

Monday, February 17, chartered buses will leave the auxiliary office in Los Angeles and Fellowship Hall, Loma Linda, for a sightseeing tour of homes of celebrities and other points of interest in Palm Springs. At noon in the Loma Linda Rosen Onyx Court, 2850 South Palm Canyon Drive, Palm Springs, a luncheon will be held featuring a fashion show presented by Saks Fifth Avenue of Palm Springs.

Joyce Brothers, PhD, a radio and television columnist, will speak on "Unlocking Your Mental Powers," at the annual homecoming luncheon Tuesday, February 18, at 11:30 a.m. in the Embassy Room, Ambassador Hotel, Los Angeles.

Other speakers during meetings to be held in the Embassy Room of the Ambassador Hotel, are on Wednesday, February 16, Dr. Abraham Macowell, PhD, director of Loma Linda University Division of Religion and "Distinctive Missions of the Seventh-day Adventist Church;" Mrs. James O'Brien, moderator of a panel of 46 women sponsored by the Southern California Religion Conference of Southern California, on "Portraits of American Women;" and Evelyn S. Geerld, MD, assistant director and chief of the School Health Section in the Division of Maternal and Child Health of the Kansas State Department of Health, "What Is Happening in American Sex Education?"

Tee off time for the third annual Woman's Auxiliary golf tournament will be 10:30 a.m. Thursday, February 20 at the San Juan Hills Country Club, 32213 San Juan Creek Road, San Juan Capistrano.

   GYN physician will turn over all patients to new pediatrician immediately. Office space available.
   Pediatricians will be at the fair.

1. Wishes position on Pacific Medical Group's staff.
   Pediatrician is needed in city of 28,000. Liberal financial arrangement.
   Pediatrician will tour all offices to new pediatrician immediately. Office space available.

2. Port Hueneme, California: OB-GYN physician will turn over all offices to new pediatrician immediately. Liberal arrangement.

1. Trinidad, Colorado: Fine opportunity for surgeon in city of 10,000.
   Physician needed in city of 28,000. No investment required.

1. Northville, Michigan: Approved position on Pacific Medical Group's staff.
   Pediatrician needed in city of 28,000. No investment required.

   Pediatrician needed in city of 28,000. Liberal financial arrangement.

1. Wishes position on Pacific Medical Group's staff.
   Pediatrician is needed in city of 28,000. Liberal financial arrangement.
   2. Port Hueneme, California: OB-GYN physician will turn over all offices to new pediatrician immediately. Office space available.

1. Wishes position on Pacific Medical Group's staff.
   Pediatrician is needed in city of 28,000. Liberal financial arrangement.
   Pediatrician will tour all offices to new pediatrician immediately. Office space available.

2. Farmington, New Mexico: Urgent need to be filled. Liberal financial arrangement.

   General practice in group practice of Indian, county, city, and private practices.

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Wednesday, February 5

**Guinea: 7:30 p.m.**

**San Bernardino Valley College**
Illustrated forum lecture, Thursday, February 6

**Southeast Asia**: 7:40 p.m.

**La Sierra College**
Illustrated forum lecture, Friday, February 6

**Thursday, February 6**

**Legate Christian League**: 7:30 p.m.

**La Sierra Church, LS**

**Sunset 5:25**

**University Church, LL**
Illustrated forum lecture, Saturday, February 8

**Saturday, February 8**

**University Church, LL**
Illustrated forum lecture, Sunday, February 9

**Sunday, February 9**

**Central Commons, LS**
Valentine's banquet.

**Monday, February 10**

**La Sierra Church, LS**
Collegiate Christian League: 7:30 p.m.

**La Sierra Church, LS**
Visits with other church leaders: 8 a.m.

**Tuesday, February 11**

**La Sierra Church, LS**
Collegiate Christian League: 7:30 p.m.

**La Sierra Church, LS**
Annual Kiwanis Club banquet: 7 p.m.

**Wednesday, February 12**

**University Church, LL**
Wednesday prayer service, pastor Paul Johns, MD, professor of medicine, 7:30 p.m.

**La Sierra Church, LS**
Anniversary of marriage: 7:30 p.m.

**Wednesday, February 12**

**University Church, LL**
Honor of worship, pastor Paul C. Henrichs, A.D., pastor: 7:00 p.m.

**Friday, February 14**

**College Hall, LS**
Honorary degree of Doctor of Humane Letters, F. E. Merkle, 7:00 p.m.

**Friday, February 14**

**College Hall, LS**
Assembly speaker's chair: 3:00 p.m.

**Sunday, February 15**

**Commons, LS**
American Red Cross.

**Monday, February 16**

**La Sierra Church, LS**
Collegiate Christian League: 7:30 p.m.

**La Sierra Church, LS**
Visits with other church leaders: 8 a.m.

**Tuesday, February 17**

**La Sierra Church, LS**
Collegiate Christian League: 7:30 p.m.

**La Sierra Church, LS**
Annual Kiwanis Club banquet: 7 p.m.

**Wednesday, February 18**

**La Sierra Church, LS**
Collegiate Christian League: 7:30 p.m.

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EARNRT L. LUTZ, Sr., displays a few of his hundreds of plastic embeddings. Mr. Lutz recently authored a 166-page book designed to instruct the naturalist, researcher, or student in plastic embedding.

Former missionary, employee authors book on plastics

A book on plastic embedding, written by a former Loma Linda University employee and missionary, is designed to instruct the naturalist, researcher, or student in the art of embedding anatomical, botanical, zoological, and rigid dry specimens.

New officers elected by public health student association

The School of Public Health Student Association recently elected new officers.

Early acceptances announced

One hundred two students have been accepted to Loma Linda University, for the School of Medicine for the 1969-1970 school year according to Walter B. Clark, dean of admissions. Several of these students will be meeting with interested paramedical students. Come meet with interested paramedical students. Come

**Additional content not relevant to the question has been omitted.**
A new, custom-made Casavant pipe organ with one of the most technically advanced designs locally will be assembled in Hide Memorial Auditorium on the La Sierra campus next spring, according to Donald J. Furstman, assistant professor of music.

The new three-manual, 63-rank organ, built by Casavant Brothers of Saint-Hyacinthe, Quebec, Canada, will replace an old, theater-type organ which was donated to the University by Walt Disney in 1935.

From 15 to 19 months are generally needed to custom build Casavant organs, but because of space in the company’s production schedule, the SD convention will begin in April, 1969.

Compassion and love were the only words that Brother Nonid Shigley, 78, minister for many years, is now at Sabanilla, Chiapas, Mexico, with her husband, assisting in building a clinic.

Thelma Ester Wilbur, 31, who is retired but helps Lonora with work and teaching in the primary division at the Sabanilla School in Caney, Oregon.

Rethel Nahahana Inaku, 39, is a physician who has worked in the Good Samaritan Hospital in Guatemala. Her husband is studying electrical engineering.

Thomasa Wilfred Frillaith, 31, is the evening supervisor at the Josephine Sunset Home, Hunchend, Washington.

The table clinics will be an exhibit of the hospital’s annual convention in Gynae Gynm- sum on the University campus. Winners will be awarded prizes at a banquet which will be held on the evening of the convention. First place winners will represent the school at the annual national competition at the 1969 meeting of the American Dental Association.

School of Dentistry students who have taken the first place award for three years and have been awarded the top four for the last seven years in the national American Dental Association.

Judges for the competition will be Edward F. Furstman, D.D.S., president; Southern California Dental Association; James Kilpatrick, D.D.S., president, Tri-City Dental Society; Mrs. Jean Pettis, D.D.S., professor and practice manager and chairman, Division Dental Hygiene, University of California, San Francisco.

Louis G. Tiekko, DDS, dean, University of Oregon Dental School; Gerald D. Timmons, DDS, dean emeritus at Temple University School of Dentistry, Philadelphia, and former president of the American Dental Association; Roger K. Trueblood, DDS, treasurer, American Dental Association, and Daniel I. Coggin, DDS, president, National Association of Seventh-day Adventist Dentists.

Also on display during the convention will be 84 commercial exhibit items of products used in the dental profession.

The San Bernardino County Dental Society, Canyon chapter of the American Dental Association, Congress Jerry L. Pettis (R-California).

An active in civic activities, Mr. Jacobs has held such positions as the Redlands Chapter of the American Red Cross, chairman of the Coordinating and Communications Committee, Mental Retardation Agency, vice president of the ARB Booth United Fund, president of Los Linda Com- munity Services Council, president of the Warder Guidance Center of Palm Springs, and chairman of the Redlands Chapter of the American Red Cross.

Recently returning to the University to become director of the University Relations, is Oliver L. Jacobs. Mr. Jacobs formerly held this position at the University from 1962 to 1967. In 1967 he was administrative assistant to Congressman Jerry L. Pettis (R-California).

The auditorium’s present organ was never intended for use in clinical application and techniques. The organ currently in the auditorium was built in 1935 by Walt Disney. It will be pushed to the center of the stage for concerts and recitals, or pushed into its own room off stage when not in use.

The new organ, however, will follow principles established since the Bach era, reflecting advances and changes enabling adjustments for both harmonics and contemporary music, according to Mr. Jacobs.

Director appointed for University relations office
Men's singles tennis tournament set for February 9, 16, 23

Students, faculty, and staff members are eligible to play in the Loma Linda campus men's singles tournament February 9, 16, and 23.

Winners of the tournament will make a team which will play the winners from the La Sierra campus. Sign up sheets are posted in Daniels Hall, University Hospital, the dental clinic, and the Loma Linda Market.

School of Dentistry refresher courses offered March 6-8

Sixteen continuing education refresher courses in dentistry will be offered by Loma Linda University during the four days prior to the annual School of Dentistry Alumni-Student Convocation, March 6-8.


Further information concerning exact times and fees may be obtained by writing to the Director of Continuing Education, Loma Linda University School of Dentistry, Loma Linda, California 92354.

For Sale

Beautiful duplex for sale, 2 bedrooms, 2 baths each side. Located in the heart of Loma Linda, Carpats, drapes, builtins, finished garages. An exceptional value at $35,000. May be seen at 11242 Bellaire Street, Loma Linda. Contact Central California Conference Association, P.O. Box 580, San Jose, California 95106. Telephone (408) 297-1584.

COMPARE!

Yes, compare earnings and withdrawal restrictions! You'll see First Federal's 5% current annual rate is the nation's highest on passbook savings — no withdrawal restrictions. Savings deposited by the 10th of the month earn from the first and accounts are insured to $15,000!

FIRST FEDERAL SAVINGS & LOAN ASSOCIATION OF SAN BERNARDINO
555 No. E St., San Bernardino
LOMA LINDA: 11142 ANDERSON ST. • BARSTOW: 602 E. MAIN ST.
Special projects

Established in the physician's memory

A new fund has been set up in the memory of the late William D. Bolander, MD, to finance a professor of psychiatry at Loma Linda University.

Instituted at the request of Dr. Bolander's family, funds received will be used for special projects at University Hospital.

Currently on the priority list of projects is a piano for the psychiatric unit at University Hospital. School of Medicine officials feel that the purchase of the piano in Dr. Bolander's memory would be especially appropriate because of his Dr. Bolander's strong interest in music. Dr. Bolander was director of the Loma Linda Chorale at the time of his death.

Contributions can be made to Loma Linda University in the name of the William D. Bolander Memorial Fund.

Mitzelfelt Chorale

concert scheduled for LA Music Center

The Mitzelfelt Chorale and members of the Glendora Symphony Orchestra will be presented in concert in the Dorothy Chandler Pavilion of the Los Angeles Music Center next Saturday evening.

Directed by H. Vincent Mittelfelt, MD, the program will include selections by Bach, Calvani, and Beethoven.

Tickets for this program will be $3 and $1.50.

A second concert will be held May 4 when "Rhubarbarian Feast" by contemporary British composer William Waters, and the "Rhapsody" by Johannes Brahms will be presented.

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An interesting chain of events has recently opened the possibility of medical and medical equipment to be mailed to the Saigon Adventist Hospital, Saigon, Vietnam.

Gus H. Hoots, SM'45, assistant clinical professor of der.

School of medicine

class officers named

The School of Medicine class of 1970 recently elected officers for the school year.

They are John D. Jacobson, president; Herbert D. Brahm, vice president; Sherry Flam- man, secretary; Lee O. Gates, treasurer; James D. Simpson, chapslain; Keith R. Colburn, so-

Brahms will be presented.

ent activities director; Merrill J. Shidler, sports activities di-

Service action corps

initiated by UCF

A new program — the Social Action Corps — designed to help physicians in the United States. The corps is being formed in cooperation with the University Campus Fellow-ship.

The service program will function in five areas including medical, tutorial, counseling, re-

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Kettering Medical Center

Residency program approved

A new "residency" program for physicians, leading to specialization in general surgery, has been approved at a Dayton, Ohio hospital.

The four-year program at Kettering Medical Center received approval on its first application from the American Medical Association Council on Medical Education, J. Russell Shawver announced recently. Mr. Shawver is administrator of the medical center's affiliated Charles F. Kettering Memorial Hospital.

One physician, William D. Sandborn, MD, is already midway through his first year of the new program. Approval of the residency was retroactive to the time he began specialization in surgery in January 1969.

"He took a real chance, entering the program before it had official approval," admits Richard DeWall, the overall coordinator, or director of surgery residencies at the new program. Approval of the residency was retroactive to the time he began specialization in surgery in January 1969.

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Physicians invited to attend open house, surgical seminar

Loma Linda University School of Medicine department of anatomy will hold an open house for all area physicians featuring a lecture on "The Surgical Importance of the Pelvic Fascia" by Charles W. Harrison, MD, associate professor of anatomy, Sunday, March 23, at 3 p.m. in Shroyer Hall, Loma Linda. According to Dr. Harrison, there are two schools of thought in the field of surgery. The older school puts emphasis on anatomical principles while the modern school emphasizes biochemical and physiological principles. Dr. Harrison feels that this dichotomy should not be. His lecture will clarify certain misconceptions about the relationships of pelvic fascial planes to vital structures.

Also on display will be Dr. Harrison's intricate dissections of the head, neck, and spine. Open for inspection prior to and following the lecture will be the Alfred Shroyer Museum which contains embryos and endometriotic models, panoramic models and preserved specimens, osteological specimens and gross anatomical dissections and models, and a large collection of paintings, drawings, and sketches of both microscopic and gross anatomical subjects.

Canada club annual reunion announced

The annual reunion of the "Friends of Canada Club" will be held Thursday, February 20, at Clifton's Cafeteria in West Covina. All Canadians, former workers, or friends of Canada are invited to attend. Dinner will be served cafeteria style for the group from 7:30 to 9:15 p.m.

School of Medicine receives $40,000 in research grant

The School of Medicine has been the recipient of a $40,000 research grant from the Donald E. Baxter Foundation of Los Angeles, according to David P. Hinshaw, S.D., dean of the School.

Twenty-five thousand dollars of the $40,000 is designated for a research project being conducted by John Lenner, PhD, assistant professor of physiology and biophysics.

The remaining $15,000 will be put into the School of Medicine's general research fund.

How Do You Use Worthington 209, Anyway? Any Way You Want to, Pardner!

Worthington 209 has caught the fancy of folks everywhere. "209" is a savory new protein food unlike anything you may have tried before. Thousands already have tried "209" slices and come back for more. Delicious served over toast points or an entree with vegetables, Worthington 209 also makes exciting meals when barbecued as in the recipe below. You've likely already tried "209," but in case you haven't, why don't you get some soon -- pardner!

Barbecue "209"

Dip canned sliced slices of "209" in cooking oil and brown that do not crisp on grill or in pan. Drain on towel and break into pieces. Mix with the delicious smoky barbecue sauce.

Sauce: Saute 1 cup chopped onion in drippings left from browning "209." Add 1/2 cup water, 1/2 tablespoon Worcestershire or soy sauce, 1/4 cup brown sugar, 1-1/4 tsp. horseradish sauce, 1/4 tsp. liquid Bar-B-Q Smoke. Simmer covered for about 30 minutes. Serve this mixture over toasted, buttered buns. Serves 4-6.

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- Near the School of Medicine, two apartments, one house and two small structures for development. Entire parcel for $15,000.

- Large building in La Sierra, built by contractor for himself. Has 3 bedrooms, 2 baths, fireplace, carport, garage, kitchen, and three apartments. $120,000 or best offer. For more information call or write Mr. Voochen.

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Audiovisual Service hosts seminar

Two-week TV course is first in planned series

This week more than 30 participants are gathered in the television studios of the Loma Linda University Audiovisual Service for the first in a planned series of seminars on television arts and graphics.

The Audiovisual Service has long considered arts and graphics to be one of the weak links in the television industry's utilization of the medium.

Originally planned for faculty and students of the University, the seminar will be attended by participants from New York, Washington, D.C., Florida, Oregon, and Indiana, in addition to California. Two semester hours of undergraduate credit will be granted at the completion of the course.

The class is conducted by Bruce Bollinger. Mr. Bollinger has been affiliated with the Columbia Broadcasting System and the American Broadcasting Company. As art director for the two television networks he contributed to many local and network programs prior to his affiliation with North American Aviation, Los Angeles, where as production manager he helped to pioneer the closed-circuit television effort that supported the Apollo space program.

Mr. Bollinger brings to light many humorous as well as enlightening and intriguing incidents from his first-hand experience in artistic television production.

The information presented, procedures outlined, and practices described will prove helpful to the professional as well as to the aspiring television writer, director, or producer.

Technical personnel attending the two-week conference will gain new insight into the workings of television production, according to Ellis R. Rich, Audiovisual Service director.

This Special Insert

was produced by the Loma Linda University Audiovisual Service personnel in cooperation with the University SCOPE. Questions or comments should be directed to Audiovisual Service, Loma Linda University, Loma Linda, California 92354.

Studio equipped by SM class of 1942 gift

The television studio facility on the University's Loma Linda campus received its start through a grant from the School of Medicine graduating class of 1942 which contributed more than $25,000 to the purchase of basic components for the closed-circuit television system.

In mid-1967, Paul R. Tharp, formerly of the National Education Association, Washington, D.C., was invited to join the Audiovisual Service staff to promote the cause of television communications at the University.

The program has flourished; and the east portion of the Audiovisual Service building has recently been refurbished into a modern and complete facility.

The studio was used for the first time in July 1968 when Harold M. S. Richards and the King's Heralds recorded a program for use in the Glendale Adventist Hospital, Glendale.

The facility has been used by the Schools of Public Health, Dentistry, Medicine, and Nursing, as well as the College of Arts and Sciences.

The television studio operates partially through a grant from the Center for Continuing Medical Education, New York.

Currently more than $45,000, made available from several sources, is invested in equipment and improvements. Programs are distributed by cable to many of the Loma Linda campus buildings and by videotape to the College of Arts and Sciences.

Pastor J. J. Atkén (right), secretary of the department of radio and television of the General Conference of Seventh-day Adventists, talks with Audiovisual Service director Ellis R. Rich about the future role Loma Linda University may play in the production and distribution of health-related materials for use around the world.

Harold M. S. Richards, Sr., and the King's Heralds work before Audiovisual Service cameramen during the first taping of a television program in the studio facilities located on the Loma Linda campus.
### Closed-circuit TV facilities available at La Sierra

Beginning this semester, students and teachers on the La Sierra campus will have available the facilities of closed-circuit television to aid the teaching and learning processes. Ralph L. Koorenny, PhD, dean of the College of Arts and Sciences says that he hopes teachers will be able to "significantly improve the teaching of certain courses through the use of this modern resource, which will be available to any department." The purchase was made possible through the cooperation of Dr. Koorenny and Willard H. Meier, PhD, dean of the School of Education.

Dr. Meier anticipates the primary use of the equipment in his school to be in the area of microteaching. A student will no longer have to depend entirely upon the teacher's evaluation of his teaching technique; he will be able to actively join in the evaluation process through the use of video tape recordings. The areas of speech and theology will use the same technique. Norval F. Pease, PhD, chairman of the department of religion says that he has "looked forward for years to being able to use this valuable tool."

Dr. Meier pointed out that there are "a number of tapes available for playback for the teacher training program." The playback of tapes in this area as well as in other fields will provide valuable enrichment of the student's curriculum. The department of associate degree nursing has already made some trips to the Loma Linda campus to view the programs of the Audiovisual Service and the Medical Television Network. These programs will now be available on the La Sierra campus. In another area, Fritz Guy, assistant professor of religion, has made arrangements for his class in ethics to view a program on the crisis in the cities. With the playback equipment readily available, some of the faculty are making plans to produce their own tape recordings, custom tailored to their special needs.

The use of television will likely mark the beginning of a wider use of audiovisual resources in general on the La Sierra campus. Dr. Koorenny says he hopes that in the 1969-70 school year the Audiovisual Service will be able to aid all departments on a larger scale.

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### Viewing locations:
- University Hospital, room 7002
- School of Dentistry, room 106
- Graduate School, faculty lounge
- School of Nursing; hospital pharmacy, radiology library, Audiovisual Service studio; La Sierra campus, Hole Memorial Auditorium by appointment
- Department of religion says that he has "looked forward for years to being able to use this valuable tool."

### Continuing Medical Education program series shown by AV

The Network for Continuing Medical Education and the Medical Television Network. These programs will now be available on the La Sierra campus. In another area, Fritz Guy, assistant professor of religion, has made arrangements for his class in ethics to view a program on the crisis in the cities. With the playback equipment readily available, some of the faculty are making plans to produce their own tape recordings, custom tailored to their special needs.

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### Medical Television Network supplies weekly program

The Medical Television Network (RES MEDICA), Los Angeles, supplies a weekly television-in-service program to medical staff members and a biweekly program to nursing staff personnel.

These programs are received by a "scrambled" signal from Mt. Wilson, then decoded and transmitted to television sets in various buildings on the University campus.

Room 7002 in University Hospital has been designated as the prime viewing location for Medical Television Network Programs.

The School of Medicine is a prime supplier and producer of programs shown on the network of stations. Some of the material is shot on location here at Loma Linda and shown in full color over the network.

Staff are advised of program offerings by a direct mail brochure sent to them in advance of the showings. Topics are timely and are produced with a high degree of technical excellence.

Physicians are finding it increasingly difficult to take time from their busy schedules to return to the classroom for postgraduate symposia at medical teaching centers. Yet they are aware that the knowledge explosion in medicine makes it essential for them to continue studying if only to prevent a fairly rapid obsolescence of their professional knowledge. Television may be one solution to their dilemma.

At Loma Linda University, Medical Television Network programs make it possible for the physician to view professional material presented in a clear, concise manner while expending very little of his time.

Medical Television Network video techniques make possible supplementation of subject material with demonstrations, viewing of X-rays, electrocardiograms, electroencephalograms, microscopic slides, and films of patient interviews.

Produced in Universities throughout the nation, each program consists of a 40 to 50-minute video tape recording. Programs are transmitted in scrambled form to assure privacy of medical communication and are stored by decoders on receiving sets at each participating hospital.
### TV cables extend over campus

A new run of television cable just completed to the Schools of Public Health and Health Related Professions marks another major step toward the goal of wiring the entire campus to receive the closed-circuit television programming originated in the campus audiovisual center.

The idea for use of the closed circuit was first discussed by Ellis R. Rich, director of the Audiovisual Service with members of the administration before the new hospital was constructed. This idea became a reality in July of 1967 when the first installment of television equipment was delivered to the new hospital. This first equipment included an Ampex 324 camera and an Ampex 7500 color video tape recorder with associated color monitor. Mr. Rich says that the decision to get Ampex video tape recording equipment was greatly influenced by the desire to be compatible with other institutions in the denomination who are already using this type of equipment. Shortly after the equipment arrived, the hospital A-level amphitheater was wired for its use and additional monitors were purchased for this area.

A major advance for the television program came with the purchase of two Ampex 326 studio cameras, a Telecine "Multicaster" vertical interval switcher (basic control console), and the associated monitoring and telecine equipment necessary to set up a studio for the local production of television programs. This purchase was made possible by the generosity of members of the School of Medicine class of 1942 who donated $25,000 toward the purchase of this equipment. This gift was augmented by a grant from Roche Laboratories' Network for Continuing Medical Education.

Because there was not enough room in the new hospital building for a television studio, this equipment was moved to the audiovisual building on Stewart Street, where room was made for a studio. The use of this studio began in June of last year when H. M. S. Tharp, TV project coordinator, says he hopes the signal will be available in all applicable areas in the near future.

Future growth of the program will depend upon the use needs of the various schools and departments. The area of most need in the immediate future is the upgrading of the signal on the cable system. Because of the rapid growth of the system, the signal is marginal in certain areas. This problem will be solved by the installation of community antenna system line amplifiers, which will insure a strong noise-free signal to all areas of the campus.

Another idea which is receiving much faculty and student comment is the idea of inter-connecting the two University campuses with microwave. Such a system would carry instructional television programs, but would likely get a great deal of use in other areas as well. It would enable classes on the La Sierra campus to use the scientific computation facility on the Loma Linda campus, and could also provide a private picture-phone type of service, with capabilities for conducting conferences and committees, on both campuses simultaneously. Members of the faculty and administration would thus be able to cut down the time they spend on the road between campuses.

Many have asked about the possibilities of color TV. Thus far there has not been sufficient demand. However, with the decreasing cost of certain types of color equipment, color programming is a possibility. The present distribution system will handle color; in fact, certain programs which are picked up off the air are now distributed in color. The present video recorder is color-capable, and with the addition of one module can play back color through the existing facility.

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### The Audiovisual Service

The television studio and distribution facility is just one portion of the overall audiovisual program of the University according to Ellis Rich, director. For many years the Audiovisual Service has offered to the University medical and graphic art service, exhibit design and preparation, educational motion picture production, clinical pictures, publicity pictures, and film library service.

The Audiovisual Service has experienced a steady growth pattern in all areas. We are making all possible efforts to streamline our facilities, automate our equipment, and organize our program to meet the increasing requests without an increase in costs. Our automatic color film processor has made possible a large increase in materials processed with a substantial saving in time.

Our motion picture film library has increased its titles by 140 films during the past 18 months. These films are in demand by the University staff as well as other institutions and schools in the community.

Our goal is to improve all of our services, to grow with our ever expanding technology, and to make the most effective use of media at Loma Linda University.
Instruction, research are aims of audiovisual television service

The purpose of the closed-circuit television service at Loma Linda University is to provide programming directed toward instruction, research, and patient care; to conduct continuing study in evaluation of its use; and to further the development of television utilization.

Historically, the use of television at Loma Linda University has been in restricted islands of interest.

The School of Dentistry has utilized television for a number of years; and the cardiovascular laboratory in University Hospital has employed a camera system for several years for the purpose of displaying a magnified view of cardiac catheterization procedures.

Television possesses certain capabilities which recommend it as an additional medium for continual medical education. It is, however, as demanding as any of the various media heretofore used and requires much attention to details, both technical and pedagogic, for adequate use.

The whole complex of technology and new audiovisual tools offer exciting vistas for the improvement of the teaching and learning process.

At the moment these "power tools to learning" are forcing the basic reevaluation of curriculum presentation. The planned, integrated use of communications media will help refashion medical education for the benefit of those who teach and the students who learn under their supervision.

At Loma Linda University we hope technology will not be allowed to come between the teacher and the student, but rather will make their time together more meaningful. In no case will hardware be allowed to dictate instructional strategy; and only the instructional objective should determine what hardware will be used in a given instance.

Lucille C. Innes, well-known medical illustrator and an Audiovisual Service staff member prepares material for local television production. She also produces many of the illustrations for physicians' use on the Medical Television Network.

Robert C. Pettersson, artist-photographer, is shown here working with a scale model of the stage of Gentry Gymnasium. The model will be used for an upcoming program at the Alumni Postgraduate Convention in Los Angeles.

Camerman Eugene Hood operates one of the two Ampex 326 modified studio cameras. Numerous instructional programs are transmitted by cable from the Audiovisual Service telestudio to various locations on the Loma Linda campus.

Robert C. Pettersson, artist-photographer, is shown here working with a scale model of the stage of Gentry Gymnasium. The model will be used for an upcoming program at the Alumni Postgraduate Convention in Los Angeles.

Paul R. Tharp, television project coordinator, loads a Medical Television Network tape on the late-model Ampex 7500 C Videotape recorder for playback to the University staff.