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OCEANID membership \$3 - BEAR FACTS subscription \$2 - make out check to OCEANIDS

## SCHOOL FACILITIES BOND ISSUE ELECTION MARCH 11

Unanimous approval to place a school facilities bond authorization of \$91,310,000 before the voters in a special election March 11, 1969, was given by the Board of Education at its regular meeting December 17, on the recommendation of Superintendent Ralph Dailard.

The \$91.3 million bond authorization, if approved by at least two-thirds of the voters in March, will add 4.10 cents to the district's tax rate by the end of the five-year period, according to computations rounded off at \$90 million. The computations assume a 4 1/2 percent interest rate on the bonds and an annual 5 percent increase in assessed valuation.

The Citizens Committee report and recommendations, resulting from a study of total building needs for the next decade, were presented at the December 16 meeting by the committee's chairman, Attorney John M. Cranston. The Board also heard a report from George Saunders, spokesman for a group of three structural engineering firms employed by the Board last March to examine all pre-1933 buildings in accordance with legislation adopted in 1967 and amended in 1968. The act provides that any building classified as "unsafe" in the event of an earthquake shall not be used for classroom purposes after July 1, 1975. In a major earthquake, portions of the walls would fall either in or out of the buildings, allowing the floors and roofs to collapse.

The \$91,310,000 bond authorization is made up of six component parts:

- \$42,598,000 to build new elementary and secondary schools to meet present and future enrollment growth needs, kindergarten through 12th grade.
- \$25,839,000 for replacement of buildings constructed prior to 1933 not meeting present earthquake construction standards.
- \$5,613,000 for facilities and equipment for adult schools and junior colleges and another \$750,000 for rehabilitation and remodeling of existing facilities.
- \$6,050,000 for land purchases for new schools and for expanding present overcrowded sites, kindergarten through grade 12.
- \$2,735,000 for needed modernization of other older existing facilities, kindergarten through grade 12.
- \$7,725,000 for replacement of obsolete and worn-out equipment and to bring the equipment in older schools up to current standards for new schools.

The Citizens Committee study and subsequent recommendations appeared to give validity to an ear-

lier staff report presented to the Board November 19 which predicted a 44,000 enrollment growth in the next decade, creating a need for the equivalent of 47 new schools by 1978.

## OCEANID BUS TRIP TO HUNTINGTON LIBRARY by Rosalie Weinberger

Did you know that one of the world's finest libraries is only two hours away from San Diego? The Henry E. Huntington Library at San Marino is just that. Amongst the most famous items are The Gutenberg Bible, the Ellsmere manuscript of Chaucer's Canterbury Tales, and Benjamin Franklin's Autobiography in his own handwriting.

Located across the lawn is the equally famous Art Gallery, which was originally Henry Huntington's home. The most frequently viewed painting is Gainsborough's "The Blue Boy". There are several large galleries and fifteen small ones with collections of silver, furniture, tapestries, etc.

The last, but not least, treat is the tour of the Botanical Garden, which includes a Desert Garden, Camelia Garden, Lily Pond, Japanese Garden (which has just recently been enlarged) and flowers, shrubs, and trees from around the world.

Does this sound like an exciting day for OCEANIDS sometime in March? We will go by bus, have lunch enroute (sack or box lunch), even card tables for the bridge fans, an ice box for cold drinks and the price will be very moderate.

Watch your March BEAR FACTS for the date and further details.

## UNIVERSITY INTERNATIONAL FOLK DANCERS

This group meets every Tuesday at 7:30 in the South Dining Hall. Come and learn dances from many countries.

Newcomers and Community Concerns are having a joint Coffee on February 13 at 10 o'clock at the home of Paula Rotenberg, 2733 Costa Belle, La Jolla. Mrs. Joseph Hall will speak on "the San Diego City School System." Child care will be provided next door at the home of Lila Butler, 2717 Costa Belle.

All OCEANIDS are invited to attend.



DO YOU WANT TO READ A DIRTY STORY?  
SEE PAGE 2

## POLLUTION SPREADING IN OCEAN

by Robert C. Cowen

reprinted from The Christian Science Monitor\*

Man's dirty wastes diffusing throughout the ocean are outstripping natural processes of erosion and marine life in affecting the chemical nature of the sea.

It's done ignorantly and on an increasing scale. Prof. Edward D. Goldberg of Scripps Institution of Oceanography wonders if men may be committing one of the most colossal mistakes in their history.

As a marine chemist, Dr. Goldberg has been worrying about this problem for some time.

Last February, he told a Scripps symposium that "chemists can isolate man-introduced radioactivity in any 50-gallon sample taken anywhere in the sea."

Since then, he has again gone to sea. And he has again found man's dirty trail everywhere.

Studying waters and sediments in the Bay of Bengal, for example, he found DDT residues that probably come on the winds from sources as far away as Africa. Windborne pesticide is accumulating there at a rate of three tons a year, he says.

He considers such poisons, especially DDT and its residues, probably the single most important pol-

lutant because of their toxic nature. But many other compounds are pouring into the ocean as well.

To cite a few, he notes that lead concentrations in Pacific surface waters have jumped tenfold since tetraethyl lead was introduced into gasoline 45 years ago.

Mercury reaches the sea through natural erosion processes at a rate of about 3,000 tons a year for the world ocean. But man is putting in an extra 4,000 tons annually all by himself.

And so it goes. There is literally no part of the ocean where man's chemicals do not penetrate. Yet no one, neither an expert such as Dr. Goldberg nor a politician considering antipollution legislation for air or rivers, has the vaguest concept of what this man-made chemical experiment will produce.

Living with this ignorance, in Dr. Goldberg's opinion, may be one of mankind's greatest follies to date. If the effects of his unintended chemical experiments are deleterious, to himself or to marine life, man may not be aware of it until too late.

These effects are likely to be subtle. Moreover, marine chemistry is quite slow. It's time scales run to thousands and millions of years. Any man-made chemicals are likely to be around along time before ocean processes remove them. (continued on page 3)



A SYMPOSIUM ON MAN'S CHEMICAL INVASION OF THE OCEAN  
presented by  
SCRIPPS INSTITUTION OF OCEANOGRAPHY  
AS PART OF THE 200th ANNIVERSARY PROGRAM OF THE CITY OF SAN DIEGO

February 24, 1969

Sherwood Hall

The public is invited.

9:00 a.m. to 12 noon

WELCOME Dr. William J. McGill, Chancellor, University of California, San Diego

INTRODUCTION Dr. William A. Nierenberg, Director, Scripps Institution of Oceanography, University of California, San Diego

### THE CHEMICAL INVASION OF THE OCEANS

- Session Chairman: Dr. Edward D. Goldberg, Professor of Chemistry, Scripps Institution of Oceanography, University of California, San Diego

MUNICIPAL WASTES Dr. Norman H. Brooks, Professor of Civil Engineering, California Institute of Technology, Pasadena

PETROLEUM PRODUCTS Dr. Max Blumer, Senior Scientist, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts

LEAD Dr. Clair Patterson, Senior Research Fellow in Geochemistry, California Institute of Technology, Pasadena

CHLORINATED HYDROCARBONS Dr. Robert W. Risebrough, Assistant Specialist, the University of California's Institute of Marine Resources, Berkeley campus

2:00 p.m. to 5:00 p.m.

### ENVIRONMENTAL RESPONSES

- Session Chairman: Dr. William A. Newman, Assistant Professor of Biological Oceanography, Scripps Institution of Oceanography, University of California, San Diego

THE ENVIRONMENTAL EQUATION Dr. Richard S. Miller, Professor of Wildlife Ecology, School of Forestry, Yale University, New Haven, Connecticut

EFFECTS OF MOLYBDENUM ON A FOOD CHAIN Dr. Charles R. Goldman, Professor of Zoology and Director, Institute of Ecology, University of California, Davis

ROLE OF MORTALITY IN POPULATION DYNAMICS: EXPERIENCE FROM NUCLEAR TEST Dr. Milner B. Schaefer, Professor of Oceanography, Scripps Institution of Oceanography, University of California, San Diego; Director, the University of California's Institute of Marine Resources, San Diego campus; and Science Adviser to the U.S. Secretary of the Interior, Washington

CHLORINATED HYDROCARBONS IN AVIAN AND PHYTOPLANKTON REPRODUCTION Dr. Charles F. Wurster, Assistant Professor of Biology, State University of New York at Stony Brook

## POLLUTION IN OCEAN (continued)

If men are to find out whether there is danger in their pollution, wide ranging, specific research projects need to be taken up now. Then, perhaps, enough knowledge can be gained to make some kind of conclusive assessment.

Certainly there is reason to suspect that effects of the pollution can be widespread and of direct interest to men.

Dr. Goldberg points out that, since DDT began to be used a quarter of a century ago, the body burdens of deep living fish such as tuna have risen to values comparable to those animals exposed more directly to the poisons on land. Is man introducing a dangerous feedback of such poisons through the fish he eats?

Or, Dr. Goldberg asks, is pollution subtly changing survival rates for some marine species? Is it ruining the environment for others?

The ability to answer such questions, to predict what introduction of various pollutants may mean is, in Dr. Goldberg's opinion, one of the skills needed to live in our technological world. Only with the aid of this kind of predictive tool can sensible policies of pollution control be worked out.

The United States, especially, needs to develop this tool. For, Dr. Goldberg notes, the United States appears, by itself, to be responsible for a third to a half of many of the pollutants put into the air and sea.

It may seem inconceivable that DDT flowing in minute quantities down the Mississippi or lead wafting with the wind from New York could be a global problem. But river debris diffuses over vast ocean areas. Winds may carry pollution a hemisphere away.

Even the 328,740,000 cubic miles of sea water are no longer guaranteed to be a safe repository for our wastes.

\*Editors note: This excellent article, sent from Boston by Kathy Spiess, is used instead of a next door interview because Ed Goldberg is in the Bay of Bengal.

## MARTIN KAMEN GETS AWARD

Dr. Martin D. Kamen, Professor of Biochemistry, has been recognized for his work in the field of photosynthesis by the American Society of Plant Physiologists. Kamen, a member of the UCSD faculty since 1961, was named recipient of the "Charles F. Kettering Award for Excellence in Photosynthesis" in recognition of his contributions to this fundamental problem." The award was presented at the society's annual banquet held recently at the University of Massachusetts at Amherst.

One of the earliest discoveries made by Kamen and an associate was that of the long-lived radioactive carbon isotope, Carbon 14, which the Encyclopedia Britannica called, "Probably the most important isotope from the standpoint of future possibilities." In his teaching and writings, Kamen has exerted a great influence on the thinking of biochemists by contrasting the relatively slow reactions common to all biochemistry with photosynthesis: the absorption of light by a pigment molecule and its subsequent speedy and efficient conversion into chemical energy.

## TIME TO START DOING YOUR THING

Toward the end of May, OCEANIDS holds its Art Festival and this little article is to jolt you so that you will take action during the next few months. All UCSD faculty, students, employees and their families can enter this all media non-juried show and sale. Some things will be for sale and some will not. If your daughter brings home something especially imaginative from kindergarten, or your son makes a beautiful walnut salad bowl in wood shop, or if you embroidered a colorful pillow cover from that woman's magazine pattern-enter it in the Show. It will be stimulating to see what the amateurs, as well as the professionals, do. The Art Festival is held out of doors; the International Folk Dancers perform at intervals throughout the day. Most families bring a picnic lunch and make a pleasant outing of it. Details of the Art Festival will be given in a later issue.

## LINUS PAULING AWARDED AGAIN

Dr. Linus Pauling, Professor of Chemistry in Residence here, was recently named the 18th recipient of Dickinson College's Priestley Memorial Award. Presentation of the award next March 27 will be the highlight of the annual Priestley Day celebration at the Carlisle, Pa., college. The award is named for Joseph Priestley, discoverer of oxygen, and consists of a portrait medallion of Priestley. A check for \$1,000 accompanies it.

Pauling is a winner of the Nobel Prize in chemistry and also holds the Nobel Peace Prize. Few scientists have been honored so often. Pauling holds the Roebing Medal of the Mineralogical Society, the American Chemical Society Award in Pure Chemistry, the Nichols Medal, Presidential Medal for Merit, Gibbs Medal, Richards Medal, the Gilbert Newton Lewis Medal, the Davey Medal of the Royal Society, the Thomas Addis Medal of the National Nephrosis Foundation, the Phillips Medal of the American College of Physicians and other awards. Nearly 30 universities have honored him with degrees, including Chicago, Yale, Cambridge, Oxford, London, Paris, Toulouse, Montpellier, Liege and Berlin.

During the early war years, he worked on rocket propellants and other explosives but was among the scientists who opposed dropping atomic bombs on Hiroshima and Nagasaki. His work to abolish war began in 1945. In addition to 300 scientific papers and numerous books, he has published more than 100 articles on world peace and related subjects and the book "No More War."

His widely-used text "General Chemistry" revolutionized the teaching of chemistry, because it presented chemistry as a subject to be understood in terms of molecular structure and the laws of atomic physics.

During recent years, much of his work has been on the application of chemistry to biological and medical problems. Last spring he advanced a highly controversial theory that mental patients could well be treated by giving them "optimum amounts" of vitamins, amino acids and certain fatty acids.

THE U. S. HORTICULTURAL FIELD STATION  
3550 Miramar Road

Many of you probably have wondered about the group of buildings near the northeast edge of the Campus on Miramar Road directly west of Scripps Memorial Hospital. This is the U. S. Horticultural Field Station, a unit of the Agricultural Research Service with the United States Department of Agriculture.

This facility consists of 15 acres of land leased from the University. Here we have an office and laboratory building 4 greenhouses, a processing laboratory and 2 shop buildings. In addition, the Biology Department of the University (Dr. Herbert Stern's group) has 3 greenhouses and a small headhouse on the premises. Also, the Department of Pomology at Davis has a small area on the Station devoted to experimental work with strawberries.

Our research is confined to two crops, lettuce and cantaloupe. The purpose of the work is the development of disease resistant and adapted varieties of these crops for the Southwest through methods of plant breeding and genetics. Most of the field work is done at Brawley in the Imperial Valley where we have extensive field and laboratory facilities. The staff of the Station consists of two professional, Dr. G. W. Bohn and myself, with eight supporting personnel.

Thomas W. Whitaker  
Research Geneticist  
and Investigations Leader

THE SIERRA CLUB: AN INTRODUCTION  
by Cynthia Mathews (454-4074)

The Sierra Club, formed in San Francisco in 1892, consisted at first of about 180 members whose activities focussed on mapping out the wilds of Yosemite Park and blazing the first trails there. 76 years later, Yosemite Valley has virtually become a summertime slum. Taking a lesson from this tragedy of over-development, the Club has in recent years become much more attentive to its motto, "to explore, enjoy and protect the nation's scenic resources."

Club membership now numbers over 69,000, and its conservation efforts have become global in scope. In recent years the Sierra Club has become nationally famous for its gorgeous Exhibit Format books of nature photography (a potent propaganda tool, now available in paperback), and for its herculean efforts to preserve the Grand Canyon, the Northwest Cascades and the California Redwoods. Countless other, less-publicized campaigns are also constantly in progress throughout the country. Though these campaigns are rarely as successful as the Club might hope, they have made enough of a stir for the Internal Revenue Service to revoke the Club's tax-deductible status (on grounds of "influencing legislation") in a controversial actions which is still being appealed.

Here in San Diego County there is a well-established and very active Sierra Club chapter of about 1,750 members. It conducts a number of outings each month ranging from picnics and easy walks to long,

strenuous back-pack excursions. News of these outings is published in the chapter's monthly newsletter, and non-members are welcome to participate as an introduction to Club activities.

Another very important function of the local chapter is working to protect local parks and resources. Some of these current projects (also described in the newsletter) include working for the Torrey Pines Park Extension, opposing widening of Freeway 395 through Balboa Park, fighting private-interest roads through wild areas of Anza-Borrego Desert Park, opposing dredging and channeling of the lower Colorado River, and campaigning to have the Channel Islands (off Santa Barbara) designated a National Monument.

There is a lot to be done right here! Detailed descriptions of local campaigns are planned for future issues, but until then you can learn more by contacting these S. D. chapter committee chairmen:

Outings	Fred Axe	281-6560
Membership	Harold Rowell	422-9128
Conservation	Bob O'Brien	286-1198
Newsletter	Ruth Hammer	281-9197

Yearly membership dues in the Sierra Club are \$3.50, junior (12-21); \$9, single; \$13.50, family; plus an initial \$5 admission fee.

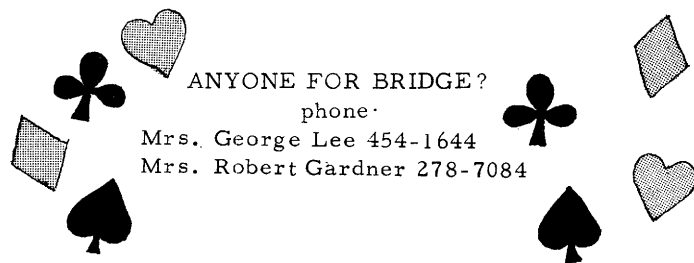
Notice of the following events of local interest has just been received:

Feb. 4: 7:30 pm., Conference Building, Balboa Park. First session of the annual mountaineering course offered jointly by the Sierra Club and City Department of Recreation. Meets every Tues. evening through March 18, augmented by week-end field trips. A small fee is charged.

Feb. 9: 12 noon-4:30 pm., Conference Bldg., Balboa Park: Annual Camping Equipment Show sponsored by the Sierra Club. See the latest in tents, back-packs, stoves, clothes, etc.

Feb. 14, from 9 am. Supervisor's Chamber, County Building, 1600 Pacific Highway: Meeting of the State Park and Recreation Commission. This is the once-a-year chance to see the Commission in action here in San Diego. Topics under consideration will include the controversial road planned for Coyote Canyon (in Anza-Borrego Park) and the formation of an Undersea Park in La Jolla. The local chapter also urges the re-appointment of Margaret Owings to the commission.

Feb. 28, 10 am. City Administration Bldg; City Council Conference to consider Open Space Ordinance, which would provide for preserving natural canyons and establishing vest-pocket parks on an assessment-district basis.



SALK INSTITUTE

DEL MAR

HOPKINS DRIVE

LOS ANGELES

**MATTHEWS CAMPUS**

- 101 FIRE DEPARTMENT
- 101 PUBLIC AFFAIRS
- 102 REGISTRAR & ADMISSIONS
- 103 UNIVERSITY EXTENSION
- 104-110 ADMINISTRATIVE OFFICES
- 111 CONFERENCE ROOM 'A'
- 201 UNIVERSITY BOOKSTORE
- 201 CLUSTER I LIBRARY
- 202 ARCHITECTS & ENGINEERS
- 204 BUSINESS MANAGER'S OFFICE
- 250 OFFICE OF STUDENT AFFAIRS
- 269 AUXILIARY ENTERPRISES
- 269 ENVIRONMENTAL HEALTH & SAFETY
- 269 AUDIO-VISUAL
- 301 ACCOUNTING
- 302 STUDENT HEALTH
- 303 LABORATORY
- Q 304-324 ACADEMIC QUONSETS
- 401 MAIL ROOM
- 402 HISTORY
- 403 RESTROOMS
- 405-406 CLASSROOMS
- 407 VISUAL ARTS
- 407 MUSIC
- 408 ART GALLERY
- 409 RECITAL HALL
- 409 CAFE/ERIA
- 410 APPLIED ELECTROPHYSICS
- 410 THIRD COLLEGE PROVOST
- 411 LITERATURE
- 412 MUIR COLLEGE PROVOST
- 412 ANTHROPOLOGY-SOCIOLOGY
- 501 CAMPUS POLICE
- 501 PERSONNEL
- 502 LITERATURE
- 503 RESTROOMS
- 504 MATHEMATICS
- 506 CONFERENCE ROOM
- 507 MATHEMATICS
- 508 TESTING CENTER
- 509 RECEIVING
- 510 CENTRAL DUPLICATING
- 601-604 PHYSICAL PLANT DEPARTMENT
- 605 VISUAL ARTS
- 606-609 PHYSICAL PLANT DEPARTMENT
- 610 STUDENT RECREATION CENTER ANNEX
- 611-614 PHYSICAL PLANT DEPARTMENT
- 701 CENTRAL FACILITIES
- 702 HEAD RESIDENT'S HOME
- 703 SERRA HALL
- 704 PORTOLA HALL
- 705 OGDEN HALL
- 706 DRAKE HALL
- 707 DE ANZA HALL
- 708 DANA HALL
- 709 CABRILLO HALL
- 710 BEHRING HALL
- 711 STUDENT RECREATION CENTER
- 817-818 PHYSICAL EDUCATION

**JOHN MUIR COLLEGE**

(under construction)

MIRAMAR ROAD

PARKING

**MATTHEWS CAMPUS**

BASIC SCIENCE FACILITY (under construction)

**SCHOOL OF MEDICINE**

**REVELLE COLLEGE**

**REVELLE COLLEGE**

- 1 UREY HALL
- 2 BLAKE HALL
- 3 ARGO HALL
- 4 REVELLE COMMONS
- 5 BEAGLE HALL
- 6 ATLANTIS HALL
- 7 CHALLENGER HALL
- 8 DISCOVERY HALL
- 9 METEOR HALL
- 10 GALATHEA HALL
- 11 HUMANITIES-LIBRARY
- 12 PROVOST'S OFFICE
- 13 COFFEE HUT
- 14 CENTRAL UTILITIES
- 15 UNDERGRADUATE SCIENCES
- 16 PHYSICS-CHEMISTRY
- 17 BONNER HALL

**FISHERIES-OCEANOGRAPHY CENTER**

UNIVERSITY COAST APARTMENTS

**SCRIPPS INSTITUTION OF OCEANOGRAPHY**

- 1 HYDRAULIC FACILITY
- 2 INSTITUTE OF GEOPHYSICS & PLANETARY PHYSICS
- 3 SEAWATER TEST FACILITY
- 4 PHYSIOLOGICAL RESEARCH LAB
- 5 VAUGHAN AQUARIUM-MUSEUM
- 6 EXPERIMENTAL AQUARIUM
- 7 RITTER HALL
- 8 LIBRARY
- 9 SCRIPPS BUILDING & DIRECTOR'S OFFICE
- 10 RESEARCH SUPPORT SHOPS
- 11 SVERDRUP HALL
- 12 SUMNER AUDITORIUM
- 13 EQUIPMENT WAREHOUSE
- 14 RADIO STATION WWD
- P PARKING

PACIFIC OCEAN

UNIVERSITY HOUSE  
9630 LA JOLLA FARMS RD

LA JOLLA FARMS ROAD

LA JOLLA SIDES DRIVE

NORTH TORREY PINES ROAD

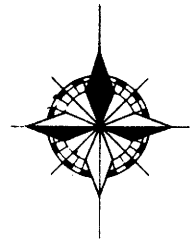
TORREY PINES ROAD

LA JOLLA SCENIC DRIVE

LA JOLLA

**UNIVERSITY OF CALIFORNIA SAN DIEGO**

LA JOLLA, CALIFORNIA



Late news:

## Department of Music - Muir College

The February concerts through the 21st are given in conjunction with Music 201, a graduate seminar in the problems of conducting and performance. "The Dying Alchemist," given by Pauline Oliveros, is being given in conjunction with Music 201 and also Music 105A, a course in electronics in music performance given by Miss Oliveros.

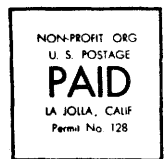
### February Concerts

- Feb. 1 Chamber concert, with works by Bach, Satie, Crumb and Mozart
- Feb. 9 The Ensemble, with works by Lewis, Britten, Rush, and Haubenstock-ramati
- Feb. 15 Mondo Violino, with works by Mullen, Schubert, Petrassi and Webern
- Feb. 21 Bertram Turetzky, bassist, doing works by Tremblay, Erickson, Gaburo, Felciano, and Chibara
- Feb. 23 "The Dying Alchemist," by Pauline Oliveros
- Feb. 24 W.O. Smith, clarinetist

Concerts start at 8:30 p.m. and are held in Building 409, Muir College, except the February 21 Concert which will be held in the Art Gallery. Free and open to the public.

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UNIVERSITY OF CALIFORNIA, SAN DIEGO  
P.O. BOX 109  
LA JOLLA, CALIFORNIA, 92037



1969

## OCEANIDS INTEREST GROUPS

Book Discussion: Tues. Feb. 11th. 9:45 am. at Becky Wilson's, 1619 Forest Way, Del Mar. 755-3951. Turn R. from Plaza on 15th. Follow 15th. L at 2nd turn on to Forest Way. Follow Forest Way to green house with pink door on R. Book to be discussed: Memoirs of a Dutiful Daughter and other works by Simone de Beauvoir.

Bridge(Day): Tues. Feb 4th and Tues. Feb. 18th at 10:30 am. Call Chairman Betty Lee 454-1644 for locations.

Bridge (Evening-Couples): Fri. Feb. 21st at Nan Owen's, 608 Ridgeline Place. Solana Beach.

Bridge (Evening-Singles): Call Betty Johnson, 273-2783.

Community Concerns: Thurs. Feb. 13th 10 am. Joint meeting with Newcomers at Paula Rotenberg's, 2733 Costebelle, La Jolla. to hear Mrs. Joseph Hall speak on the San Diego City Schools System. Child care will be provided.

Contemporary Issues: Wed. Feb. 12th 8 pm. at Linda Linck's 1935 Bahia Way. L.J. 274-5929. Off Soledad Rd. Topic: Black Student Views on the American Educational Scene.

Gourmet Supper: Call Chairman Marge Ahlstrom 222-3454.

Luncheon: No meeting February as date conflicts with Lincoln's Birthday Holiday.

Madrigals: Every Monday 8 pm. Call Louise Keeling 755-9557 or Connie Mullin 454-6871 for location.

Newcomers: Thurs. Feb. 13th 10 am. at Paula Rotenberg's, 2733 Costebelle, L.J. Mrs. Joseph Hall will speak on the San Diego City Schools System. Child care will be provided.

People-to-People: Fri. Feb. 14th Noon. W. Lounge behind Revelle Cafeteria.

Sewing: Thurs. Feb. 20th 10 am. at Mary Ann Bonini's, 7224 Arrizo Drive, La Jolla.

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## ART

Fine Arts Gallery of San Diego, Balboa Park: LEGACY OF SPAIN, five centuries of Spanish painting selected from the Gallery and Timken collections and augmented by loans of some thirty works by Dali, Gris, Miro and Picasso--through March 2. CARVED IVORY from Japanese and Chinese collections, through March 2. PRE-COLUMBIAN JADES AND GOLD from private collection, through Feb. 23. Tues.-Sat. 10-5; Sun. 12:30-5; closed Mon.

Jewish Community Center, 4079 54th St., San Diego: CHAI--ODE TO LIFE, loan exhibition of prints, Biblical themes--through February.

La Jolla Museum of Art, 700 Prospect St.: LYNN FAYMAN, photographic art, through Feb. 23. Tues.-Fri. 11-5; Wed. eve. 7-10; Sat.-Sun. 12:30-5; closed Mon.

Los Angeles County Museum of Art, 5905 Wilshire Blvd., Los Angeles: EDVARD MUNCH, seventy-four graphic works by the Norwegian artist now on exhibition. DESIGN SKETCHES AND COSTUMES from Ballet Russe of Serge Diaghilev, scheduled for Apr. Also listed for Feb.: collection of water-colors and pastels by American artists who, at the turn of the century worked with native motifs. Continuing--BROCADES, through Feb. 23.

Feb. 8 Keyboard Series III: DUO RAMPAL/VEYRON-LACROIX, flute/piano. Sherwood Hall, 8:30 pm. Reservations: 453-200, ext. 1391. Adults \$3; UCSD students, \$1.

Feb. 8 Promotion Associates presents JUDY COLLINS. San Diego Civic Theatre, 8:30 pm. \$5.50, \$4.25, \$3.50, & \$2.50. 236-6510 and Metro Agencies.

Feb. 9 ST. OLAS CHOIR. San Diego Civic Theatre, 3 pm. 236-6510.

Feb. 9 UCSD Music Dept.: ENSEMBLE CONCERT. 409 Matthews Campus, 8:30 pm. Free.

Feb. 9 U.S. ARMY FIELD BAND. San Diego Civic Theatre, 8 pm. 236-6510.

Feb. 10 Chamber Music Series II: BORODIN QUARTET. Sherwood Hall, 8:30 pm. Reservations: 453-2000, ext. 1391. Adults \$3; UCSD students \$1.

Feb. 12 ORCHESTRA MICHELANGO DI FIRENZE, chamber orchestra of 17 members. UCSD Gym, 8 pm. Unreserved seating, \$2; UCSD students, \$1.

Feb. 13 FRED WARING and THE PENNSYLVANIANS. San Diego Civic Theatre, 8:30 pm. \$5.50, \$4.50, \$3.50 & \$2.50. 236-6510 and Metro Agencies.

Feb. 14 THE IRON BUTTERFLY will lead a rock show. Convention Hall, Community Concourse. 236-6510.

Feb. 15 UCSD Music Dept.: ROMANCO VIOLINO CONCERT.

About art shows in the Los Angeles area: details of upcoming exhibitions--the dates and hours--are not always available

About art shows in the Los Angeles area: details of upcoming exhibitions--the dates and hours--are not always available in time for inclusion here. The information may appear at a later date in the "Calendar" section of the Sunday Los Angeles Times.

Newport Harbor Art Museum, Newport Beach: PAUL BRACH and MIRIAM SHAPIRO, paintings by two artist-members of UCSD arts faculty, through Feb. 23.

Orr's Gallery, 2202 Fourth Ave., San Diego: DEAN MEEKER, sculpture and graphics, through Feb. 8; DON LAVIER TURNER, paintings and drawings, and JACK BOYD, sculpture, Feb. 9-28. Mon.-Sat. 10-5.

Pasadena Art Museum, 46 N. Los Robles, Pasadena : ERNST LUDWIG KIRCHNER, retrospective exhibition of nearly 150 works, many never before seen in this country. Tues. 10-9; Wed.-Sat. 10-5; Sun. 2-5; closed Mon.

San Diego State College, 5402 College, San Diego: SOUTHERN CALIFORNIA Invitational exhibition, in the Art Gallery, Feb. 2-19.

Scripps College, Claremont: AMERICAN CERAMICS, a survey of past 25 years. Opened Jan. 21.

University of California, Irvine: TONY DE LAP, sculpture-- scheduled for Feb., according to Los Angeles Times.

University of California, Los Angeles: at Dickson Art Center-- ELECTRIC ART, exhibition of works dependent on electricity for illumination or motion; 40 artists of U.S. and Canada represented. Through Mar. 23. Mon.-Fri. 11-5; Sat.-Sun. 1-5.

At Ethnic Art Galleries--Grunwald Graphic Arts, Feb.-Mar.

University of California, San Diego: FLUXUS, constructions and theater by a group of intermedia artists. Note change in opening date; now scheduled for Feb. 10. For gallery hours and time of music-theatre programs attending this event, telephone Visual Arts Dept., ext. 1997.

Also at UCSD--Urey Hall Display cases, Revelle College: series of art projects done by students in Fall quarter in Afro-American Cultural Traditions Class 1A.

#### MUSIC

Feb. 3 University of San Diego Concert Series: HENRY KOLAR, violinist playing Bach, Beethoven. College for Women Theatre, 8 pm.

Feb. 3 LAWRENCE MOE, UCB organist. La Jolla Presbyterian Church, 7715 Draper, La Jolla, 8 pm. Free.

Feb. 4 Concert International: FERRANTE & TEICHER, PIANO PORTRAITS. San Diego Civic Theatre, 8:30 pm. Tickets \$2.50-\$5.50; call 236-6510.

Feb. 6-7 San Diego Symphony Orchestra conducted by Zoltan Rozsnyai: TAMAS VASARY, pianist. Civic Theatre, 8:30 pm. 236-6510.

- Feb. 15 Convention Hall, Community Concourse. 236-6510. UCSD Music Dept.: ROMANDO VIOLINO CONCERT, 409 Matthews Campus, 8:30 pm. Free.
- Feb. 16 PETER, PAUL & MARY. San Diego Convention Hall, Community concourse. Tickets, \$3, \$4, \$5; call 236-6510.
- Feb. 17 Associated Students: JAZZ CONCERT, trio. Hum.-Lib. Aud., 7 pm. Adm. \$1.
- Feb. 18 TAKAKO NISHIZAKI, Japanese violinist. San Diego State College, Montezuma Hall, Aztec Center, 8 pm. General Adm., \$1.50.
- Feb. 20-21 San Diego Symphony Orchestra, Zoltan Rozsnyai, conductor. Civic Theatre, 8:30 pm. 236-6510.
- Feb. 20 UCSD Music Dept.: ROBERT GARTSIDE, tenor. 409 Matthews Campus, 8:30 pm. Free.
- Feb. 21 UCSD Music Dept.: BERT TURETZKY, string base player. Art Gallery, Matthews Campus. Call for time. Free.
- Feb. 21 Chamber Music Series II: RENAISSANCE QUARTET. Call 453-2000, ext. 1391 for tickets (Adults \$3; UCSD Students \$1), time and place.
- Feb. 21-22 University of San Diego Opera Workshop: THE DIRECTOR AND THE PRIMA DONA, music by Mozart, and THE MEDIUM by Gian-Carlo Menotti. College for Women Theatre, 8:15 pm. General Adm., \$1.50; Students, \$.75.
- Feb. 22 Associated Students: BLUES CONCERT, Steve Miller, Pulse, and Sons of Champlin. UCSD Gym, 8 pm.
- Feb. 22 JOHNNY CASH, country western show. 236-6510.
- Feb. 23 UCSD Music Dept.: ELECTRONIC MUSIC CONCERT. 409 Matthews Campus, 8:30 pm. Free.
- Feb. 24 UCSD Music Dept.: W.O. SMITH, clarinetist, 409 Matthews Campus, 8:30 pm. Free.
- Feb. 25 N. MILSTEIN. San Diego Civic Theatre, 8:30 pm. 236-6510.
- Feb. 26 THE LENOX QUARTET, chamber music. San Diego State College, Montezuma Hall, Aztec Center, 8 pm. General Adm., \$1.50
- Feb. 28 Chamber Music Series IV: CZECH NONET, strings and woodwinds (San Diego premiere). Call 453-2000, ext. 1391 for tickets (adults \$3; UCSD students \$1), time and place.
- Feb. 28 THE NEW RIGHTEOUS BROTHERS SHOW, Convention Hall, Community Concourse. 236-6510.

#### CHILDREN'S EVENTS

Feb. 21-23, 28 SLEEPING BEAUTY. Puppet Theatre, Balboa Park. Feb. 21 & 28 at 7:30 pm. Feb. 22 & 23 at 2:30 pm.



## LECTURE &amp; DISCUSSIONS

- Feb. 2 Rosalind G. Wholden, "Chai: The Essence of Art". Jewish Community Center, 4079 54th St., San Diego, 7:30 pm.
- Feb. 4 Dr. Harold Hack, "Labor Relations in Public Service." San Diego State College, Montezuma Hall, Aztec Center, 7:30 pm. Free.
- Feb. 5 Dr. Manuel Guerra of University of Southern California, "Contemporary Spanish Theatre." University of San Diego, College for Women Theatre, 8 pm. Free.
- Feb. 6 UCSD Inaugural Lecture: Cecil Hougie, Prof. of Pathology, Schl. of Med., "Recent Progress in Blood Clotting." Revelle College, Hum.-Lib. Aud., 4:15.
- Feb. 10 The Fellows of the Society, Natural History Museum: Dr. Currie, "The Beach Ridges, Navarit, Mexico." Natural History Museum, 7:30 pm.
- Feb. 11 Dr. Horace Fisher, "Investments, Would You Believe 15%" San Diego State College, Montezuma Hall, Aztec Center, 7:30 pm. Free.
- Feb. 13 UCSD Inaugural Lecture: Eugene Braunwald, Prof. of Medicine & Chairman of Dept. of Med., School of Med., "Failure of the Heart." Revelle College, Hum.-Lib. Aud., 4:15 pm.
- Feb. 16 James Kavanaugh, "From Mythology and Manhood". Kairos Town House Lecture Series, 624 Upas St. 4-6 pm. Fee \$3; students \$1.50.
- Feb. 17 Senator Frank Church, "Needed: A New Foreign Policy for the U.S." Gym, Southwestern College, 5400 Otay Lakes Rd., Chula Vista, 8 pm.
- Feb. 18 Dr. Vincent Harris, "Rectangles, Rabbits and Decagons." San Diego State College, Council Chambers, Aztec Center, 7:30 pm. Free.
- Feb. 20 Audubon Society of San Diego, Annual Banquet at Bronze Room, La Mesa. Prof. Michael Soule, "Africa". Also singers from Mt. Miguel High School. Call 281-0391 for reservations. Open to the public.
- Feb. 21 San Diego Chapter Sierra Club. Trude Seligman, "New Zealand and Australia". 7:30 pm. Natural History Museum. Open to the Public. Free.
- Feb. 23 Frederick Stoller, "Video Tapes and Human Encounter." Kairos Town House Lecture Series, 624 Upas St., 4-6 pm. Fee \$3; students \$1.50.
- Feb. 25 Dr. Norman Dessel, "Use of Lassens in Today's World." San Diego State College, Montezuma Hall, Aztec Center, 7:30 pm. Free.
- Feb. 25-27 San Dieguito League of Women Voters, "China Census." Call Noel Myers (755-3191) for place & time.
- Feb. 27 UCSD Inaugural Lecture: Leonard D. Garon, Prof.

## FILMS

- Through Feb. 28 Films at UCSD: TUES., Revelle, 2722 USB, 7 pm. (ext. 1918 for titles); WED., The Coffee Hut, 9:30 pm. (shorts, serials or features); WED., Revelle, 2722 USB, 8 pm. (foreign films); FRI. & SAT., Revelle, 2722 USB, 7:30 pm.; SUN., Revelle, 2722 USB, 7:30 pm., (experimental films).
- Feb. 1-4 MAHANAGAR ( THE BIG CITY ) and PLISET SKAYA DANCES Unicorn Theatre, 7458 La Jolla Blvd., 7 & 10:05 pm.
- Feb. 1 Nocturnal Cinema: THE INVISIBLE RAY. Unicorn Theatre, 7458 La Jolla Blvd., 12 am.
- Feb. 2 TETON TRAILS, Natural History Museum, Balboa Park, 1:30 & 3 pm.
- Feb. 5 MOTHER. Unicorn Theatre, 7458 La Jolla Blvd., 7 & 9:15 pm.
- Feb. 6 BEAU GESTE. Unicorn Theatre, 7458 La Jolla Blvd., 7 & 9:30 pm.
- Feb. 7 TRUE HEART SUSIE. Unicorn Theatre, 7458 La Jolla Blvd., 7 & 9 pm.
- Feb. 8 WHAT PRICE GLORY? Unicorn Theatre, 7458 La Jolla Blvd., 7 & 9:30 pm.
- Feb. 8 Nocturnal Theatre: THE NAKED PREY, Unicorn Theatre, 7458 La Jolla Blvd., 12 am.
- Feb. 9 BUSHLAND FANTASY; THE CONQUEST OF LIGHT; and EDGE OF THE BARRENS. Natural History Museum, Balboa Park, 1:30 & 3 pm.
- Feb. 9 THE LAST COMMAND. Unicorn Theatre, 7458 La Jolla Blvd., 7 & 9:10 pm.
- Feb. 10 THE LOVE OF JEANNE NEY. Unicorn Theatre, 7458 La Jolla Blvd., 7 & 9:15 pm.
- Feb. 11 SIX IN PARIS. Unicorn Theatre, 7458 La Jolla Blvd., 7 & 9:30 pm.
- Feb. 12-18 WALKOVER and TREASURE OF THE SIERRA MADRE Unicorn Theatre, 7458 La Jolla Blvd., 7, 8:20, 10:30 pm.
- Feb. 15 Nocturnal Cinema: FILMS ON STUDENT REVOLT. Unicorn Theatre, 7458 La Jolla Blvd., 12 am.
- Feb. 16 AVALANCHES TO ORDER and THE SEA RIVER. Natural History Museum, Balboa Park, 1:30 & 3 pm.
- Feb. 19-25 THE HUNT and ELVIRA MADIGAN. Unicorn Theatre, 7458 La Jolla Blvd., 7, 8:45, 10:20 pm.
- Feb. 22 Nocturnal Cinema: BURN, WITCH, BURN. Unicorn Theatre, 7458 La Jolla Blvd., 12 am.
- Feb. 23 ISLAND IN DANGER and BIRDS OF THE PRAIRIE MARSHES. Natural History Museum, Balboa Park, 1:30 & 3 pm.
- Feb. 26- Mar. 4 PICKPOCKET and ROBBERY. Unicorn Theatre, 7458 La Jolla Blvd., 7, 8:20, 10:20 pm.

## SPECIAL EVENTS

- Feb. 25-27 San Dieguito League of Women Voters, "China Census." Call Noel Myers (755-3191) for place & time.
- Feb. 27 UCSD Inaugural Lecture: Leonard D. Garren, Prof. of Med., Schl. of Med., "On the Role of Protein Synthesis in Hormone Action." Revelle College, Hum.-Lib. Aud., 4:15 pm.

#### THEATRE & DANCE

- Feb. 1-2, 7-9 RAISIN IN THE SUN. University of San Diego, College for Women Theatre, 8 pm. Adults, \$1.50; students, \$.75.
- Feb. 13-15 AN EVENING OF ONE ACT PLAYS. Experimental Theatre. San Diego State College. General Adm., \$1.50. Reservations, 11 am. to 3:30 pm., 286-6033.
- Feb. 13-15 United States University presents THE CRUCIBLE. 20-22 The University Center for the Performing Arts, 350 Cedar St., 8:30 pm.
- Through Feb. 9 THE IMPOSSIBLE YEARS. Old Globe Theatre, Balboa Park. Tues.-Thurs, Sun., 8 pm. Fri. & Sat. 8:30 pm. Matinee, Feb. 9, 2 pm. 239-9139.
- Through Feb. 9 THE UNKNOWN SOLDIER & HIS WIFE by Peter Ustinov. Old Globe Theatre, Cassius Carter Centre. Tues., Wed., Thurs. & Sun., 8 pm. Fri., & Sat., 8:30. Matinee, Feb. 2, 2 pm. 239-9139.
- Feb. 7- Mar. 8 UNDER THE YUM YUM TREE by Lawrence Roman. Coronado Playhouse, Fri., Sat., & Sun., 8:30 pm. Tickets \$2.50 at Metro Agencies, Highlanders, and 435-4856.
- Feb. 14-15 APPLE TREE Civic Theatre, 8:30 pm. 236-6510.
- Feb. 15 Presented by A/C Productions: THE COMEDY OF BILL COSBY. Convention Hall, Community Concourse, 8 pm. \$5.50, \$4.75, \$3.75, & \$3.00. 236-6510, Highlander Mens Store & Metro Ticket Agencies.
- Opening Feb. 18 BLITHE SPIRIT by Noel Coward. Old Globe Theatre. Balboa Park. Tues.-Thurs. & Sun., 8 pm. Fri. & Sat., 8:30 pm. 239-9139.
- Opening Feb. 27 THE PROMISE by Aleksei Arbuzov. Old Globe Theatre, Cassius Carter Centre. Tues.-Thurs. & Sun., 8 pm. Fri. & Sat., 8:30 pm. 239-9139.
- Begins Feb. 27&28 San Diego Artists, Inc.: THIEVES' CARNIVAL by Jean Anouilh, Circle Arts Theatre, 5440 Kearny Mesa Rd. 279-2150.
- Feb. 28 WEST SIDE STORY. San Diego State College, Main Mar. 1, 5, State Dramatic Arts Theatre. Reservations, 11 am. to 3:30 pm., 286-6033. General Adm., \$1.50.
- 6, 7, 8
- Late Feb. THE HUNTER by Murray Mednick. Theatre Five, 751 Turquoise St., Pacific Beach. Call theatre, 488-1709, for opening date.

#### SPECIAL EVENTS

- Feb. 1-9 SPOTLIGHT ON GERMANY: exhibit of German consumer industrial products. Exhibit Hall, Community Concourse. Open 10 am. daily.
- Begins Feb. 5 BAJA CALIFORNIA. Natural History Museum will sponsor an adult seminar on Baja. The 8 wkly. lectures will be held in Auditorium of the Natural History Museum, Balboa Park, 7:30-9:30 pm. Enrollment fee, \$10. Society membership required. Call 232-9146 for membership info. and enrollment forms. (optional 6-day field trip to Bahia de Los Angeles on the Gulf of California will be offered at conclusion of seminar)
- Feb. 8 Natural History Museum NATURE WALK: Scripps Aquarium and Bureau of Commercial Fisheries. Call 232-9146 for details.
- Feb. 8-9 CAMELLIA SHOW. Conference Building, Balboa Park. 2-10 pm. on Feb. 8, and 10 am.-6 pm. Feb. 9.
- Feb. 12 LINCOLN DAY AT MISSION SAN LUIS REY. See the original document signed by Lincoln which returned the mission to the Padres. Tour of the mission, 10 am.-5 pm. Free.
- Feb. 15 Natural History Museum NATURE WALK: geology and botany trip to desert. Call 232-9146 for details.

#### SPORTS EVENTS

- Feb. 1, 4, 7, 11, 14, 15 Basketball: UCSD Gym, 6 pm., Freshman team; 8 pm., Varsity team.
- Feb. 1, 5, 7, 18, 20, 27 Basketball: San Diego Rockets. San Diego International Sports Arena, 8 pm. Ticket infor.: 224-4176.
- Feb. 2, 8, 9, 13, 15 Hockey: San Diego Gulls. San Diego International Sports Arena, weekdays, 8 pm; Sun., 7 pm. Ticket information 224-4176.

**Bear Facts**

**Month: February**

**Year: 1969**



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