

Morrison Planetarium

Sky Shows

Spacewars, Starships, and Extraterrestrials look at the themes of popular science fiction films and asks the question "Is it science or is it fiction?" From the possibility of hearing sounds in space to the harrowing experience of traveling through a black hole, this show will set you on the right course through September 14.

The Planetarium will be closed from September 15 through 18 to prepare for the new sky show.

Skylight, opening September 19, looks at nature's lightshow— from solar haloes and rainbows to auroras and lightning. How are these phenomena of light and color caused? Are they unique to the Earth alone or do they occur on other planets as well?

Beginning September 1, planetarium sky shows can be seen on weekdays at 2:00 p.m. and weekends and holidays at 1:00, 2:00, 3:00 and 4:00 p.m.

Exploring the Skies of the Season reproduces the night skies over San Francisco for viewing regardless of the weather. September offers the best views of the Great Square of Pegasus and the Andromeda Galaxy. Beginning September 1, Exploring the Skies of the Season can be seen at noon on weekends and holidays.

Laserium

Laserium offers four laser shows—**Crystal Odyssey: A Classical Fantasy**, **Laserspace**, **Genesis**, and **Pink Floyd 2**. Tickets are \$5 for adults and \$3 for seniors and children 6-12. (Crystal Odyssey has a special adult price of \$4.) Members are reminded that their complimentary planetarium passes are not valid for Laserium shows. For show times call (415) 750-7138.

Planetarium Concert Series

This fall the Morrison Planetarium will again offer an exciting series of concerts presented under the starry skies of the planetarium's 65-foot dome. This season's concerts have broad appeal to a variety of musical interests.

J.S. Bach and Sons

Tuesday, September 30 8:00 p.m.
Elaine Thornburgh, Harpsicord
Jillon Stoppels Dupree, Harpsicord

Award-winning solosits Elaine Thornburgh and Jillon Stoppels Dupree combine their virtuosos to present some of the richest repertoire ever written for two harpsicords. Inspired by the same teacher, Gustav Leonhardt, the two musicians will offer a program highlighted by W.F. Bach's flamboyant Concerto for Two Harpsicords in F Major and J.S. Bach's witty Canon from the Goldberg Variations.

Future concerts in the fall series:

Chanticleer **October 21**
A special benefit concert by this popular a cappella men's chorus

Sonus Lyricus **November 18**
A piano, flute and cello concert featuring George Crumb's haunting "Voice of the Whales"

A Evening of Classical Flute and Guitar **December 9**
Julie McKenzie and Doug Hensley will play works by Rodrigo, Rorem, Holewa and others

Tickets for the Fall Series (not including the Chanticleer concert) are \$12 for members and \$17 for non-members. Tickets for individual concerts are \$5 for members and \$7 for non-members. Tickets for the Chanticleer Special Benefit for Morrison Planetarium are \$8 for members and \$10 for non-members with an additional \$2 discount for season ticket holders. For tickets send a check made payable to Morrison Planetarium and a self-addressed, stamped envelope to Planetarium Concert Series, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118. Depending on availability, tickets will also be sold at the door the night of the concert. For information call (415) 750-7127.

Special Lectures



The Great Central Valley: Heartland in Transition

A one-day symposium
Saturday, October 11 9 a.m. - 5 p.m.
Keynote speaker: Senator John Garamendi
Morrison Auditorium
\$10 per person

The Great Central Valley, one of the richest agricultural areas on earth, faces controversial choices as demands on agricultural grow. Senator John Garamendi will deliver the keynote address on the valley, its bounty and dilemmas. After recalling the historic and economic development of the valley, the symposium will bring together experts with a wide variety of interests and views for comments and roundtable discussion. Issues to be addressed include water control, soil salinity, pesticide contamination and erosion.

Tickets are available by sending a check payable to the California Academy of Sciences to Special Programs Office, Academy of Sciences, Golden Gate Park, San Francisco, CA 94118. Participants may also register the day of the symposium beginning at 7:30 a.m. For information call (415) 750-7142.

The Origins of Human Sexuality

Sunday, November 9 9 a.m. - 5 p.m.
Zellerbach Hall, University of California, Berkeley

This one-day symposium co-sponsored by the California Academy of Sciences and the Institute of Human Origins presents a distinguished panel of scientists and laypersons discussing the physical and sociological factors that have shaped human sexuality. Speakers include anthropologists Sarah Blaffer Hrdy, Jane Lancaster, C. Owen Lovejoy and Donald Symons, and authors Jean Auel and Shere Hite.

Tickets are \$35 per person and can be purchased by sending a check payable to U.C. Regents to Cal Performances Ticket Office, 101 Zellerbach Hall, Berkeley, CA 94720 or by calling (415) 942-9988. \$150 tickets include preferred seating and lunch with the speakers; call (415) 474-0701 for details.

Everest '85

Wednesday, November 19 8:00 p.m.
Brian O'Malley
\$3 members, \$5 non-members

Mt. Everest stands as the ultimate challenge to the body and spirit of a climber. At the summit of over 29,000 feet winds often reach 100 miles per hour and temperatures drop to minus 45 degrees Celsius. Brian O'Malley was part of a team of 22 Americans who assaulted the West Ridge in 1985. Stricken with fevers and delirium, O'Malley was forced to leave the expedition, but just as it does to all climbers, Everest left an indelible mark on him. Share this breathtaking journey toward Everest in this gripping multi-media presentation.

Tickets are \$3 for members, and \$5 for non-members. Send a check payable to the California Academy of Sciences with a self-addressed, stamped envelope to Special Programs, Academy of Sciences, Golden Gate Park, San Francisco, CA 94118. For information call (415) 750-7222.

Special Exhibits



Being an Academy scientist has been a creative and rewarding challenge for many people over the past 133 years. One curator who has been around for nearly 50 of those years is Dr. Edward S. Ross, the subject and creator of the special exhibition "Lifelong Safari" now on display in Hohfeld Galleries.

Ross's quest for tiny silk spinning tropical insects has taken him on expeditions around the world and resulted in literally hundreds of thousands of specimens for the Academy's entomology collections. In addition, Ross's talents with a camera have produced thousands of images, over 200 of which are part of the current exhibition. (Be sure to see the special Close-Up Theater produced by Mind's Eye Productions which features Ross's trademark images found in publications including *National Geographic* and *National Wildlife Federation*.)

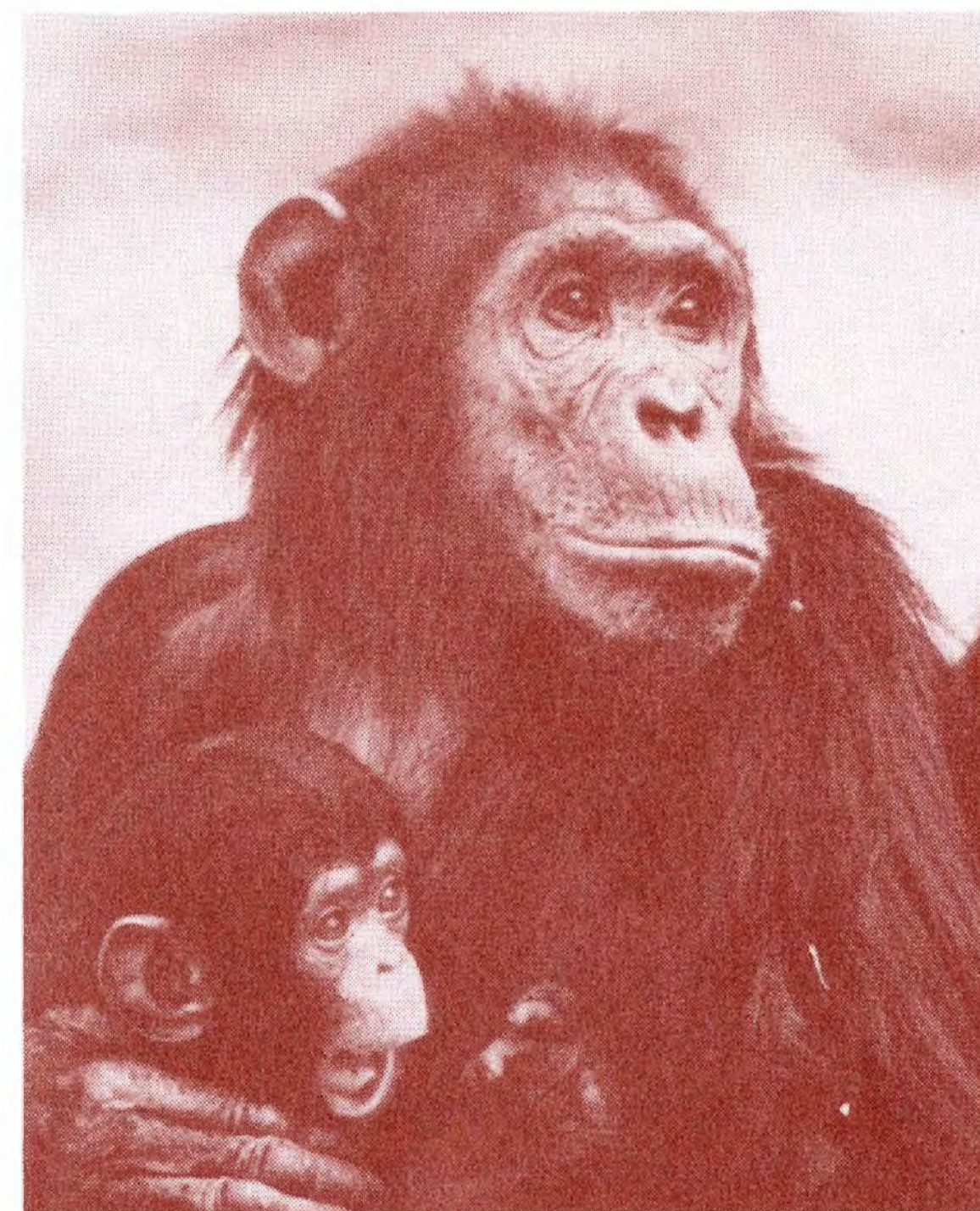
In the galleries are more of Ross's stunning photographs of the people and places he has seen in some of the most exotic places on Earth.

Lifelong Safari has been made possible by grants from the people at Chevron, the S.S. Johnson Foundation, Mzuri Wildlife Foundation and nearly 500 Friends and members of the Academy of Sciences.

The Great Central Valley Project continues in Lovell White Hall through October 12. (Don't miss important information on the October 11 symposium found elsewhere in this newsletter.)

This rich array of historic works and contemporary photographs gathered and taken by Robert Dawson and Stephen Johnson paint a portrait of the changes over the last 150 years in one of the most productive agricultural regions on Earth.

The great Central Valley Project was funded by The California Arts Council; California Council for the Humanities; Eastman Kodak Company; Fleishhacker Foundation; Mervyn's; Wilson and Geo. Meyer & Co.; Professional Color Lab, San Francisco; L.J. and Mary Skaggs Foundation; van Loben Sels Foundation; and Wells Fargo Foundation.



The Chimpanzees of Gombe Stream photo exhibition opens September 29. More than 20 large color photographs on loan from the National Geographic Society document Dr. Jane Goodall's more than 20 years of research in Tanzania. This exhibition continues through January 11 in Lower Cowell Gallery.

Prismacolor Nature Drawings by Aquarium artist Rod MacPherson captures brilliant range of delicate colors found in marine animals. This exhibition continues through September 15 in Lower Cowell Gallery.

Special Events



Tropical Splendors The Second Annual Academy Ball

Thursday, October 23
6:30 p.m. - midnight

This very special black tie evening of dining and dancing under a tropical moon will feature all the rich images and flavors associated with the tropics. Guests will enjoy cocktails on the Cabana, sip complimentary wine and champagne at the Coral Reef Bar, dine under a tropical moon and dance the Singapore Swing to bands for every musical taste. The Harmonics Steel Band will fill the air with warm Caribbean rhythms, Marlene Lima will lead the "Samba de Alegria", and Francisco Aquabella creates the irresistible beat of Latin Jazz.

Tickets begin at \$125 per person with proceeds benefitting the ongoing programs and services of the California Academy of Sciences. For information and an invitation call (415) 474-0701.



Society of Animal Artists Reception, Awards Ceremony & Preview

Friday, November 14 6 p.m. - 9 p.m.
\$20 per person

This evening champagne reception offers a chance to meet some of the foremost animal artists in America and preview the "Society of Animal Artists Juried Exhibition" which opens to the public November 15. This exhibition offers the work of notable artists Robert Bateman, Guy Coheleach, Richard Ellis, Kent Ullberg and others. The evening will begin in Morrison Auditorium with the presentation of special awards to several of the artists.

For tickets to this evening send a check payable to California Academy of Sciences with a self-addressed, stamped envelope to Special Events Office, Academy of Sciences, Golden Gate Park, San Francisco, CA 94118. For information call (415) 750-7221.

Art of the Americas

The Meridian Nights series of evening lecture/performance in Morrison Auditorium at the Academy highlights the cultural arts of North, Central and South America. The programs are sponsored by the Society of Art Publications of the Americas (SAPA) and the Academy of Sciences.

Barrios
Dennis Callwood Tuesday, September 2
Wine and cheese: 7:00 p.m.
Presentation: 7:30 p.m.

Documentary photographer Dennis Callwood was born in the Virgin Islands and now makes his home in Los Angeles. Mr. Callwood will discuss the culture and politics of the people in the Black/Hispanic barrios of Los Angeles, Guatemala, and Mexico City.

Tickets for each evening are \$5 at the door; the price includes wine and cheese. For information call June Anderson in the Academy's Anthropology Department at (415) 750-7164.

Inside the Academy

Dr. Robert T. Orr is celebrating his 50th year on the staff of the Academy. He began work in the Ornithology and Mammalogy Department in 1936 and served as a curator from 1945-75. In addition to his research, which resulted in more than 260 scientific papers, articles and 13 books, Dr. Orr was very influential in the administrative and educational areas of the Academy. He served as Associate Directors for 11 years, was active in the creation of the docent council and continues to lead members' expeditions throughout the world. Since his retirement in 1975 Dr. Orr has been the Senior Scientist and in this position continues to contribute to the Academy's role in advancing the understanding of science.



Hidden treasures in your home? In April the Anthropology Department received an important collection of Alaskan artifacts from Shiela Fostiak of Point Richmond, California. The objects were collected in 1917 by Mrs. Fostiak's mother-in-law, Marie Thomesen (pictured) in the vicinity of the Tlingit village of Klukwan. They were recently brought to Dr. Robert Sayers of the Anthropology Department for identification and later donated to the Academy's research collection. If you have ethnographic artifacts which you may be interested in donating to the Academy, contact the Anthropology Department, Academy of Sciences, Golden Gate Park, San Francisco, CA 94118, (415) 750-7163.

Volunteers are needed to staff the Discovery Room, a hands-on exhibit area for children of all ages. Discovery Guides encourage children to make observations about science from a range of fascinating objects. An interest in observing children in an educational setting and four to six available hours each month are the only requirements. For details call the Volunteer Office at (415) 750-7154.

The following scientific papers have recently been published by the California Academy of Sciences:

Mahood, A.D., G.A. Fryxell, and M.McMillan. The Diatom Genus *Thalassiosira*: Species from the San Francisco Bay System. *Proceedings*, v.44:8

Washington, Betsy B. Systematic Relationships and Ontogeny of the Sculpins *Arctedius*, *Clinocottus*, and *Oligocottus* (Cottidae; Scorpaeniformes). *Proceedings*, v.44:9

Parenti, Lynne R. Bilateral Asymmetry in Phallostethid Fishes (Atherinomorpha) with Description of a New Species from Sarawak. *Proceedings*, v.44:10

Roth, Barry. Land Mollusks (Gastropoda: Pulmonata) from Early Tertiary Bozeman Group, Montana. *Proceedings*, v.44:11

Pitt, William D., Matthew J. James, Carole S. Hickman, Jere H. Lipps, and Lois J. Pitt. Late Cenozoic Marine Mollusks from Tuff Cones in the Galapagos Islands. *Proceedings*, v.44:12

Irwin, Michael E. and Evert I. Schlinger. A Gazetteer for the 1966-67, University of California-Universidad de Chile Arthropod Expedition to Chile and Parts of Argentina. *Occasional Papers*, No.144

Kellogg, Michael G. A Bibliography and Catalog of Taxa for Allyn Goodwin Smith (1893-1976). *Occasional Papers*, No.145

If you are interested in receiving copies of these publications, contact Kate Ulrich on weekday mornings at (415) 750-7116.

Adult Education and Travel

September has traditionally been back-to-school month. The Adult Education Office offers a variety of opportunities to continue learning about and enjoying the world of science. A complete description of classes and tours can be found in the Fall Activities Calendar which will be mailed to all members in late August. For further information call the Education Office at (415) 750-7100.

Monterey Bay Aquarium

Friday, September 19
7:30 a.m. to 5:30 p.m.

Leader: Lloyd Gomez, Aquatic Biologist

Cost: \$30 member, \$40 non-members includes transportation and admission, does not include lunch

Explore the marine life of California at the beautiful Monterey Bay Aquarium on Cannery Row.

Academy Expeditions

Plan your travels with the California Academy of Sciences. There are diverse destinations with adventure and education for every traveler. For information call the Academy Travel Office at (415) 750-7222.

1986 expeditions:

AMERICA'S OWN: Chesapeake Bay and the Smithsonian (wait list-only)

September 30 - October 15
\$2400 - \$2542 plus \$298 air fare

JUNGLE RIVERS OF SOUTH AMERICA: The Orinoco and the Amazon

September 28 - October 15
\$3990 to \$8690 plus \$1220 air fare

A WILDLIFE SAFARI TO INDIA AND NEPAL (wait-list only)

October 28 - November 20
\$3452 plus \$1805 air fare

THE YUCATAN (wait-list only)

October 31 - November 16
\$1895 land plus \$446 air fare

PROJECT ANTARCTICA (wait-list only)

January 1 - 20, 1987
\$3990 to \$6150 plus \$1400 air fare

NOW'S THE TIME TO PLAN FOR 1987! A

variety of exciting and educational trips to destinations around the world has been scheduled

ON SAFARI: Kenya and Tanzania

February 4 - 25
Leader: Beth Dunbar

BAJA CALIFORNIA CIRCUMNAVIGATED

March 30 - April 15
Leader: Dr. James Kelley

GUATEMALA: The Heartland of the Ancient Maya

April 5 - 21
Leader: Dr. John Carlson

WILDERNESS GRAND CANYON

April 5 - 10
Leader: Jean DeMouthe

ROGUE RIVER WHITEWATER ADVENTURE

June 19 - 23
Leader: Dr. Robert Drewes

PAPUA NEW GUINEA

July 15 - August 6

COASTAL MAINE AND THE BAY OF FUNDY

August 7 - 19

THE SWISS AND ITALIAN ALPS

August 21 - September 6
Leader: Dr. Frank Almeda

CANYONS OF TIME: America's Southwest

September 22 - October 3

BRAZIL AND ARGENTINA

September 23 - October 12

ORIENTAL ODYSSEY: Burma and Thailand

November 2 - 24

September Members' Meeting

Dates & Times

Matinee, 2:00 p.m., Wednesday, September 10
Evenings, 8:00 p.m., Wednesday and
Thursday, September 10 and 11

Place

Morrison Auditorium

Speaker

Dr. Herbert Guenther

Subject

Lahul: A Vanishing Culture in the Western
Himalayas



The people of Lahul, once part of the ancient kingdom of Guge, are struggling today to preserve their Tibetan-Buddhist culture against political, social and economic pressures. Before the region was closed to outsiders, Dr. Herbert Guenther was able to make many treks along the old caravan route into Lahul from 1952 through 1963 while he was a professor in India. Guenther's slide/lecture documents a seldom-seen culture and includes rare footage of traditional Lamaist dances.

Dr. Guenther is Professor Emeritus of the Department of Far Eastern Studies, University of Saskatchewan.

Your membership card admits you through the Wattis Hall or Cowell Hall entrances for the afternoon program and through the Cowell Hall entrance for the evening meeting. Please be prepared to show your membership card at the auditorium door for the matinee presentation as the museum is open to the public at that time.

Sneak Preview: October 8 and 9 Dr. Ivan Schwab will present a unique look at "The Avian Eye."

Traditional Arts

The Phyllis Wattis Traditional Arts Series

offers a chance for Bay Area ethnic artists to share their traditions with museum visitors. These free programs are offered on Saturdays at 1:00 p.m. in the Hall of Man and are funded by a grant from the Paul L. and Phyllis Wattis Foundation.

SEPTEMBER

September 6— Ellis Island, an eight-piece klezmer band, performs the old-world Yiddish dance music brought to this country by turn-of-the-century Jewish immigrants.

September 13— The California Cajun Orchestra is made up of some of the Bay Area's leading Cajun musicians: Danny Poullard (accordion), Susie Rothfield-Thompson (fiddle), Eric Thompson (guitar), and Will Spires (fiddle). The group will give a taste of what it's like in a Louisiana dance hall on a Saturday night.

The Month At A Glance

SEPTEMBER

- 2 Art of the Americas—Barrios
- 6 Traditional Arts—Ellis Island band
- 10 Member's Meeting
- 11 Member's Meeting
- 13 Traditional Arts—Cajun orchestra
- 14 Last day of **Spacewars, Starships and Extraterrestrials** in Planetarium
- 15 Last day of **Prismacolor Nature Drawings**
- 19 **Skylight** opens in Planetarium
- 29 **Chimpanzees of Gombe Stream** opens
- 30 Planetarium concert—J.S. Bach and Sons

Golden Gate Park
San Francisco, California 94118-9961
(415) 221-5100

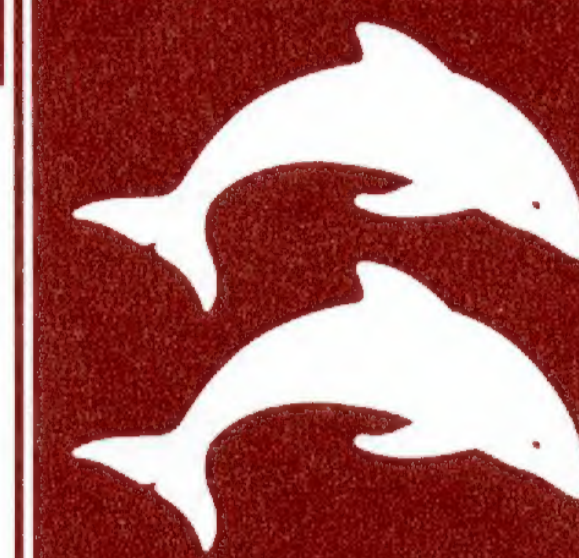
Open every day of the year
from 10 until 5



California Academy of Sciences

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Natural History
Museum
& Aquarium



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NEWSLETTER

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Time Dated Material

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