

Dates & Times:

Matinee, 2:30 p.m., Wednesday,
December 10, 1980

Evenings, 8:00 p.m., Wednesday and
Thursday, December 10 and 11, 1980

Place:

May Treat Morrison Auditorium

Speaker:

Walter Anderson

Subject:

"California's Mystery Mountains — The
Sutter Buttes"

In the northern part of one of the smallest counties in California, Sutter County, is a unique, picturesque series of volcanic hills rising like a miniature mountain range, called the Sutter Buttes. They were first discovered by the Spanish and named "los tres picos" (the three peaks), and were seen again in 1928 by Jedediah Smith, and in 1846 when John C. Fremont camped in the region.

These mountains, which reach a height of 2,132 feet at South Butte and cover an area of 70 square miles, bear in their rugged slopes the same marks and fossils as found in the Coast Range, and in the spring are covered with wildflowers and shrubs.

Join naturalist Walter L. Anderson for a slide/lecture in which he will discuss the unique volcanic geology, habitats, wildlife and wildflowers of the buttes and surrounding valleys. He will also describe the land management concept of using private lands for public sanctuaries. Anderson is a tour leader with Nature Expeditions International and has led trips to Alaska, Mexico and Africa and in February of this year led an Academy trip — the Baja California Gray Whale Expedition.

Your membership card will admit you through the main entrance at Cowell Hall for the evening presentation and through Cowell Hall and Wattis Hall entrances for the matinee. Please be prepared to show your card once again at the auditorium door for the matinee presentation.

SPECIAL EVENT

Richard Ellis and Timothy Ferris

**Book-signings and slide/lectures
Thursday, December 4 at 6:30 p.m.
May Treat Morrison Auditorium**

The Nature Company has arranged a special evening at the Academy when you will have an opportunity to meet and listen to both Richard Ellis and Timothy Ferris discuss their new books, "*The Book of Whales*", and "*Galaxies*".

"*The Books of Whales*", written by artist/author Richard Ellis and published by Random House, features over 30 species of Cetacea, and is illustrated both in black and white and color with his own work. It is available for \$25.

"*Galaxies*", which invites you to share the vision of astronomy's exploration of the cosmos, is written by Timothy Ferris, and is illustrated with color and black and white photographs taken by astronomers from around the world. Published by Sierra Club Books of San Francisco, "*Galaxies*" is available for \$75.

Members will, as usual, be entitled to their 10% discount.

PROGRAM:

6:30 - 7:30 p.m.	slide/lecture by Richard Ellis
7:30 - 8:00 p.m.	book signings
8:00 - 9:00 p.m.	slide/lecture by Timothy Ferris

We expect large crowds for this special event due to the popularity of these authors. To avoid disappointment please call The Nature Company at 221-3533 to reserve a seat.

National Geographic and California Academy of Sciences join forces.

The California Academy of Sciences and the National Geographic Society are collaborating on a major traveling museum exhibit entitled, **Exploring the Deep Frontier**. The exhibit story closely follows National Geographic's recent publication of the same name written by Academy scientist Dr. Sylvia Earle and underwater cinematographer Al Giddings. It explores the adventure of man in the sea.

At the entrance to the exhibit an audiovisual "prologue" illustrates with words, music and photographic images the lure of the sea and poses the question "Why dive?" As the visitor moves into the exhibit area he is treated to a simulated scuba dive as bubbling walls of water and suspended underwater images surround him and give him a taste of a deep sea dive . . . without getting wet!

Photomurals supplied by the National Geographic, artifacts and text describe the many reasons for man's ventures into the oceans — food, treasure, military strategy, energy resources, exploration and pure pleasure — and several full scale models of early diving devices, plus the space age looking one-atmosphere JIM suit and a submersible show visitors how man has overcome his landlocked status over the past several hundred years.

Also featured in the exhibit are four clips from the ABC primetime special, "Mysteries of the Sea" showing a wide range of ocean studies and dive experiences taking place today. One segment takes you for a dive with Steinhart Aquarium Director, Dr. John McCosker at Dangerous Reef, Australia to study 17-foot great white sharks; another puts you under the North Pole with Al Giddings and National Geographic President, Gilbert Grosvenor; you'll join Sylvia Earle on her 1,250-foot deep walk off Hawaii in the JIM suit; and you'll hold your breath for the incredible 328-foot free dive by Jacques Mayol!

The concluding portion of the exhibit is a beautiful and thought provoking film entitled, "Ocean Trust," showing some of the most beautiful creatures from the sea choreographed to the music of David O'Riordan.

Morrison Planetarium

Exploring the Deep Frontier will open December 19 and will remain through May 17, 1981 in Lovell White Hall.

Each winter between December and April, approximately 7,000 elephant seals beach themselves to form a breeding colony on a tiny island off Santa Cruz. The sheer size of these creatures (up to three tons!) as well as their complex interactions make this a unique feature of the California coast. A new photographic exhibit entitled **Mirounga: The Elephant Seals of Ano Nuevo** is on display in Hohfeld I Gallery through April, 1981. Color and black and white photos by Kenneth Parker and Eugene Fisher portray the breeding colony and document both the awesome and the humorous aspects of life as an elephant seal. The exhibit also includes interpretive text by noted biologist, Dr. Burney LeBoeuf.

Continuing exhibits are **Feather Arts: Beauty, Wealth, and Spirit from Five Continents**, through April 30, 1981 in the Patricia Price Peterson and Athol McBean Galleries; **Images of Japan** through January 15, 1981 in Lower Cowell Hall Gallery; **Afghanistan** through February, 1981 in Cowell Hall and **Woven Treasures: The Clay P. Bedford Indian Basket Collection** through January, 1981 in Wattis Gallery.

The title has changed, but the tradition remains. Bring your family to the Morrison Planetarium's 27th annual Christmas show, **The "New" Christmas Star**, opening December 5 and running through January 4, 1981. This year's show is based on new scientific information which may put the date of the first Christmas at a different time. Join us for a look at the new astronomical possibilities for the star that heralded the birth of Christ.

Showtimes for **The "New" Christmas Star** are Monday through Friday at 2:00 p.m., Wednesday and Thursday at 7:30 p.m., weekends at 12:30, 2:00 and 3:30 p.m., December 22 through 24 at 12:30, 2:00 and 3:30 p.m. Extra holiday shows on December 26, 29, 30 and 31 and January 1 and 2 at 11:00 a.m., 12:30, 2:00 and 3:30 p.m. **Note: There are no shows Christmas Day and no 7:30 p.m. show on Christmas Eve.** The planetarium will also be closed January 5 through January 8, 1981 to prepare for Issac

Light Shows

Asimov's **The Last Question**, narrated by Leonard Nimoy, opening January 9, 1981.

Please use your membership passes for free admission to the planetarium.

The Morrison Planetarium presents **Rock Fantasy**, a new light and sound experience by Eye See the Light Show, Inc. producers of **Lights Fantastic**. Featuring music by Pink Floyd, Jefferson Starship, Yes, The Rolling Stones, Led Zeppelin and more, **Rock Fantasy** uses incandescent and planetarium special effects, as well as animated laser images.

The original **Lights Fantastic** will be performed on Fridays at 7:30 and 9:00 p.m. Saturdays at 5:00, 7:30 and 9:00 p.m., and on Sundays at 5:00 and 7:30 p.m. Extra holiday performances of **Lights Fantastic** will be given on Fridays, December 26 and January 2 at 5:00 p.m., Monday and Tuesday, December 29 and 30 at 5:00 and 7:30 p.m., and on Wednesday and Thursday, December 31 and January 1 at 5:00 p.m.

The all-new **Rock Fantasy** will be performed on Thursdays and Sundays at 9:00 p.m., and on Fridays and Saturdays at 10:30 p.m.

Tickets are available in advance through BASS outlets or at the planetarium box-office one-half hour before showtime. Admission is \$3.50 for adults for all performances and \$1.50 for seniors (65 and over) and children under 10. (\$1.75 on Fridays and Saturdays).

For Light Show information, call 387-6300 or 6301. For BASS outlets call 835-3849.

Please Note: This is **not** a regular planetarium show, **nor** are your planetarium passes usable for this attraction. **THERE WILL BE NO SHOWS ON CHRISTMAS DAY.**

Inside the Academy

Two Turtle Doves and a Partridge "in a Pear Tree"

all available in the "Living Birds of the World" by E. Thomas Gilliard (Doubleday \$19.95), one of the many beautiful books available at **The Nature Company** for someone on your Christmas list. On Wednesday, December 10 from 5:30 to 7:30 (immediately preceding the monthly members' meeting) The Nature Company will be open for your Christmas shopping

convenience when you can purchase tools, books and paraphernalia for the naturalist. Be sure not to miss this special members' Christmas shopping evening. (Members will, of course, be entitled to their usual 10% discount).



Rudolph A. Peterson

At the October Board of Trustees meeting, Rudolph A. Peterson was elected Chairman of the Board of the California Academy of Sciences. Peterson, who has served as a trustee of the Academy, succeeds Paul L. Davies, Jr., who has been chairman since 1973.

Following Mr. Peterson's retirement from Bank of America in 1970 he was the fulltime Administrator of the United Nations Development Programme for four years, during which he maintained strong ties with Bank of America as Chairman of the Executive Committee. In recognition of his outstanding contributions to its progress, he was named honorary director of the bank in 1975. Mr. Peterson is Chairman of the Board of the Asia Foundation, a trustee of the California Institute of Technology, and was Chairman of President Nixon's Task Force on International Development. He also serves as Chairman of the Policy Committee of The Becker Warburg Paribas Group and is a director of Alza Corporation, Di Giorgio Corporation, The James Irvine Foundation and Scandanavian Airlines of North America, Inc. Mr. Peterson is a graduate of the University of California.

Other Officers of the Board include Vice Chairmen Jeffery W. Meyer and Paul L. Davies, Jr.; Dr. Richard H. Jahns, President; Dr. F. Clark Howell, Vice President; Eugene A. Shurtleff, Treasurer and Thomas Tilton, Secretary. New members elected to the Board are John R. Grey and John W. Larson.

SPECIAL! SPECIAL! SPECIAL!

Galapagos Islands with Sylvia Earle
January 21-February 4, 1981

Lindblad Travel, Inc., is offering a ten-percent discount for this special cruise led by Dr. Roger Perry, former Director of the Darwin Research Station at Academy Bay in the Galapagos, and Academy scientist, Dr. Sylvia Earle. The ship is the M.V. Santa Cruz which carried 76 Academy members to the Galapagos last June.

Eleven days of the 14-day trip are spent on the islands where you can photograph and enjoy such fearless creatures as marine and land iguanas, fur seals, flamingos, tortoises, tropical birds, booby birds, Galapagos hawks and Darwin's finches. Dr. Earle will interpret things that live in the sea during evening lectures and will lead swims with fur seals and sea lions during the days.

In addition to the ten-percent price reduction, Academy members booking through our travel office will enjoy other substantial benefits. Call today for the colorful booklet "Darwin's Galapagos" and information about the trip. Land/cruise cost, all inclusive, per person, \$1,935 to \$2,295. Air fare from San Francisco and return, \$823.

Book your reservation through the California Academy of Sciences and help the Academy and yourself. Call the Travel Office at (415) 221-5100, Ext. 211.

Baja California Gray Whale Expedition
February 6-14

Naturalist Bob Nansen will lead this annual cruise along the West Coast and to the Islands of Baja California aboard the **Qualifier 105**. California gray whales in San Ignacio Lagoon, elephant seals and sea lions at San Martin and San Benitos Islands, the flora of Cedros Island and shorebirds everywhere provide an abundance of natural history for study, photography and enjoyment. Cost is \$800 from San Diego. For information, call Nature Expeditions International at (415) 494-6572.

Mexico South: Plants and Civilizations
February 20-March 5

An intriguing itinerary in the southern Mexican states of Chiapas and Tabasco. Dr. Dennis Breedlove, will lead the group to the riches of its floral and archaeological sites including the classic Maya cities of Palenque, Yaxchilan, Chinkultic, and his research headquarters at San Cristobal de las Casas. The group will visit the small Lacandon village of Naha with the leadership of Gertrude (Trudy) Blom, noted archaeologist/anthropologist. There will also be a visit to San Juan Chamula to observe the festivals of "Carnival". Cost for land arrangements is \$1740. Air fare is \$430 at the current G.I.T. rates. For information, call the Academy Travel Office at (415) 221-5100.

Red Sea Passage
February 26-March 10

From the Port of Suez the **M.V. Stella Maris** (note change in vessel) will cruise the Red Sea. Highlights include visits in Jordan to Petra and the Monastery of St. Catherine on Mt. Sinai. From the Port of Safaga, participants will travel overland for a two day tour of the archaeological sites in the environs of Luxor. Four days in Cairo complete this unusual travel opportunity which is co-sponsored by the Boston Museum of Fine Arts. Dr. Victor Roland Gold, scholar of civilizations of the Middle East and member of the University of California faculty, will be guest lecturer. Cost is approximately \$3,500 from San Francisco. For information, contact the Academy Travel Office at (415) 221-5100.

Canyonlands Nature Photography Expedition
May 28-June 7

Bryce Canyon National Park, Capitol Reef National Monument and Zion National Park provide a spectacular scenic haven for the nature photographer. Academy members will camp comfortably in these three areas as they observe and photograph with the guidance of their instructor. Cost is \$890 plus air fare. For information, please call Nature Expeditions International at (415) 494-6572.

Alaska
June 6-21.
Watch January NEWSLETTER for details.

A Very Merry Christmas Gift Idea
A Membership in the California Academy of Sciences

Give the thoughtful gift that lasts all year long this Christmas. We will be happy to send a card notifying each recipient of your gift before the holidays.

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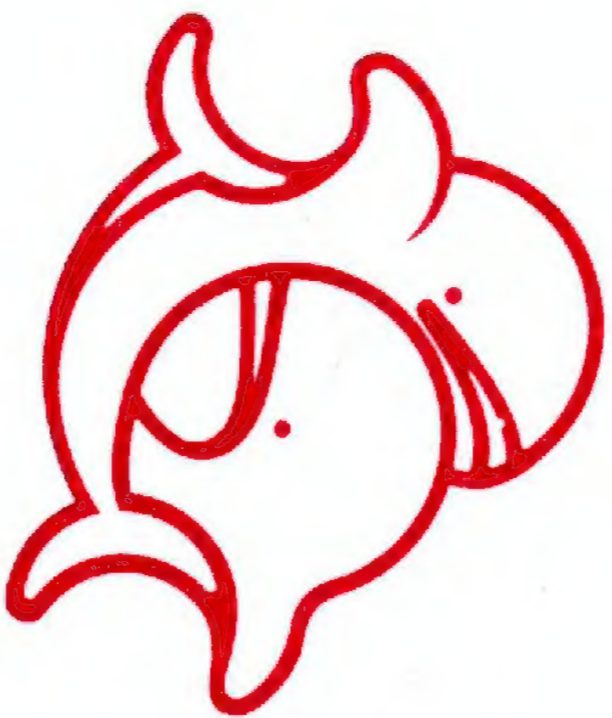
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