

NUMBER 3

FALL, 1975

WHO'S WHO AT THE SYMPOSIUM

The unique gathering of eleven scientists from seven countries who are to appear at the fourth annual Leakey Memorial Symposium in November, represent some of the world's foremost authorities on human evolution. This will serve to introduce them to you:

Raymond A. Dart, South Africa, anatomist, whose major discovery of the skull of *Australopithecus africanus* 51 years ago, became a milestone in man's search for his origins and one of the most crucial in the development of physical anthropology. Dr. Dart will introduce the symposium proceedings with a talk: "WHY STUDY HUMAN ORIGINS?"

C.K. Brain, South Africa, director of the Transvaal Museum, Pretoria. Professor Brain is a zoologist whose work in paleontology and animal behavior has centered in the discovery and analysis of cave deposits of the South African australopithecine. Lecture: "RECONSTRUCTING THE WORLD OF SOUTHERN AFRICAN AUSTRALOPITHECINES."

François Bordes, France, professor of pre-history, University of Bordeaux. Dr. Bordes is an outstanding authority on Paleolithic tools and has excavated many important early man sites in the Dordogne Valley. Lecture: "THE ADAPTATION OF PREHISTORIC MAN TO HIS GLACIAL ENVIRONMENTS."

Bernard Campbell, England, professor of anthropology, University of California, Los Angeles. Dr. Campbell has degrees in zoology, botany, chemistry, anthropology and primate taxonomy. His research and teaching have taken him from England to the U.S. via East and South Africa. Lecture: "PROBLEMS AND PROSPECTS IN UNDERSTANDING EARLY MAN."

Irven DeVore, U.S., professor of anthropology, Harvard University. Dr. DeVore's research in behavioral studies ranges from baboons and orangutans to hunter-gatherer societies such as the Bushmen of Kalahari. Lecture: "NATURAL SELECTION AND PRIMATE BEHAVIOR."

Jane Goodall, Tanzania, visiting professor in psychology and human biology, Stanford University. Dr. Goodall is an ethnologist whose work with wild chimpanzees at the Gombe Research Center in Tanzania is internationally acclaimed. Lecture: "THE RELATIONSHIP BETWEEN NEIGHBORING COMMUNITIES OF CHIMPANZEES."

David Hamburg, U.S., Reed-Hodgson Professor of human biology, Stanford University. Dr. Hamburg was formerly chair-

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D.C. SYMPOSIUM TO BRING TOGETHER FAMED SCIENTISTS "IN SEARCH OF MAN"

Record Attendance Expected at 2-Day Event

Why study the great apes? What is aggression? Why do we behave the way we do? Did man begin in Africa or Asia? How did the human brain evolve? What selection pressures brought about bi-pedalism, culture, language?

These are just a few of the many provocative questions to be explored at the 1975 Louis Leakey Memorial Lectures "IN SEARCH OF MAN" in Washington, D.C. November 1 and 2, when eleven internationally-known scientists share the podium under the auspices of the Leakey Foundation in cooperation with the National Geographic Society, the Smithsonian Institution Resident Associate Program and the Consortium of Universities of the Washington, D.C. area.

This significant event, the largest and most ambitious scientific conference undertaken by the Leakey Foundation, will be held at Lisner Auditorium, George Washington University. Devoted to inquiry and the multi-disciplinary sharing of scientific data, it is expected to turn up many important new facts and fresh clues to man's evolution and draw both laymen and serious students in record numbers from every part of the country.

The venerable Dr. Raymond A. Dart, paleoanthropologist, will open the proceedings. Dr. Dart discovered *Australopithecus africanus* in 1924 in Taung, South Africa.

The distinguished roster of scientists includes: Dr. F. Clark Howell, who headed a delegation of paleoanthropologists this summer to the People's Republic of China; Dr. David Hamburg, director of the Stanford Primate Research Facility and chief negotiator for the release of students held hostage in Zaire this year; and Dr. Bernard Campbell, who led an expedition this summer to Lake Rezaieyah, Iran, seeking clues to human origins in fossil-rich deposits dating from the Miocene, 25 million years ago; as well as such world renowned authorities as Dr. Mary D. Leakey of Kenya, Jane Goodall of Tanzania; C.K. Brain of South Africa, François Bordes of France, Irven DeVore of the U.S., Paul D. MacLean of the U.S. and G.H.R. von Koëniswald of West Germany.

In a special informal panel discussion at the close of each day's lecture series, the audience will be able to submit questions concerning the topics covered. It is expect-

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Dart

Brain

Bordes



Campbell

DeVore

Goodall



Hamburg

Howell

Leakey



MacLean

von Koëniswald

ANNUAL BOARD MEETING, NOV. 3 AT NATIONAL GEOGRAPHIC

The annual meeting of the Leakey Foundation's board of trustees will be held at National Geographic Society headquarters on Monday, November 3, following the symposium weekend.

A mid-morning plenary session and two meetings of the science and grants trustees have been scheduled.

A luncheon for board members and their guests will be held at the offices of the National Geographic Society following the meetings.

the L.S.B. Leakey foundation

The L. S. B. Leakey Foundation was established in 1968 by distinguished laymen and scientists to encourage international research focusing upon man's origins, his evolving nature and his environmental future. The Foundation was named to honor Dr. Louis S. B. Leakey in recognition of his outstanding contributions to the fund of human knowledge.

The Foundation sponsors:

- Exploration and excavation of sites having a bearing upon the evolution of man.
- Behavioral and taxonomic studies of living primates as a corollary to paleontological finds, as well as to provide insight into contemporary man's behavior.
- Laboratory studies of field specimens resulting from exploration and excavation.
- Publication of scientific reports of field and laboratory findings.

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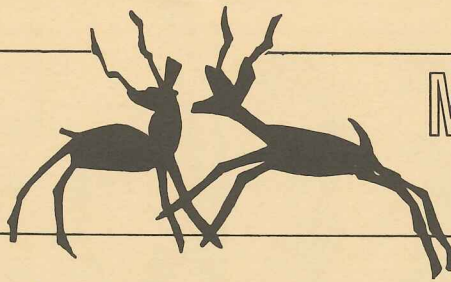
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the L.S.B. Leakey foundation news

Editor: Ruth G. Fox
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MEMO FROM THE PRESIDENT

Our last issue of the year is a time for Thanks-giving . . .
 . . . to Barbara Pelosi, Gordon Getty, Mel Payne, Nancy Pelosi and Marie Hawke for their work in Washington organizing the extraordinary symposium.
 . . . to Kaye Jamison and the Westside L.A. team for their fine spring workshop.
 . . . to Joan Travis and Tita Caldwell for their work organizing our various lecture programs around the country.
 . . . to Dave and Betty Hamburg for an arduous and dangerous travail to finally secure the release of those students kidnapped from Gombe.
 . . . to Ruth Fox for professional editing on a volunteer salary.
 . . . to George Jagels and Ed Harrison with strong assists from Mason Phelps, Coco Morton, Larry Barker, Gordon Getty, Gordon Hanes, Owens Miller and Tom Guinn for working financial miracles in such parlous financial times. With a last minute (year-end tax deductible!) push from Fellows and Friends, we will go over the top in matching the Beck million dollar pledge.
 . . . and always to Helene and Bob Beck. They have shared the sense of excitement in the Foundation as the drive mounted to success.
 . . . and lastly, to the *raison d'être* of the Foundation: the scientists who work in the field and in the laboratory to deepen our knowledge of man and his nature.

After so much lucubration, one needs some lubrication. Please join me in a toast to our finest year!

But 1976 is an even greater challenge. Richard Keatinge's new dig in Peru, the third season in Iran, the new Mary Leakey site at Laetolil, Biruté Galdikas-Brindamour reporting to fellows on her orang work in Indonesia (see *National Geographic* cover story, October, 1975), George Schaller on the Serengeti lions, new studies by Jane Goodall; as well as the first year of our scholarship program for African archeologists, and new field researchers like Julie Webb, now in the Cameroons for the first systematic study of the lowland gorilla.

Cordially,

Ned Munger
Edwin S. Munger
President

MATCHING GIFT FUND NEARS GOAL

The effort to meet the Robert M. Beck \$1 million challenge gift pledge continues. The following statement was issued at press time by Leakey Foundation vice president George Jagels:

"To our contributors:

"The development committee deeply appreciates the supportive response to our correspondence and personal appeals, which so far in 1975 have elicited \$447,978 in new contributions and pledges toward the Leakey Foundation \$1 million matching gift goal.

"On behalf of the many scholars, scientists and students whose studies and discoveries are made possible through your past, recent and continuing support, our sincerest thanks."

Under the co-chairmanship of trustee George Jagels and Ed Harrison, the development committee of the Foundation has been working diligently to encourage new gifts and pledges qualifying for matching funds offered by trustee Robert M. Beck's \$1 million challenge pledge.

Members of this committee include: Messrs. Paul T. Guinn, Lawrence Barker, Owens Miller, Coleman Morton, Mason Phelps, Robert M. Beck and Dr. Edwin S. Munger.

Since May 1, 1975, the committee has received \$305,432 in new contributions and pledges. As of our mid-September press time, \$14,001 was still needed, but development committee members were confident that they would achieve the full potential of Mr. Beck's matching pledge offer before the September 30 deadline.

D.C. SYMPOSIUM (Cont. from page 1)

ed to be an unusual and revealing interchange and one likely to produce some scientific surprises.

"IN SEARCH OF MAN," is the fourth annual symposium sponsored by the Leakey Foundation and the first to be held in Washington, D.C. A memorial to the late Louis Leakey, symposia have been given in Philadelphia, San Francisco and Pasadena in previous years.

Co-chairing the Washington event is Dr. Melvin Payne, president of the National Geographic Society and Leakey Foundation trustee and Mrs. Ronald Pelosi, Leakey Foundation trustee. Serving on the committee for the symposium are: James L. Aldrich, Mrs. James Bellows, Debra Berger, Wilton S. Dillon, Peggy Fleming, Mrs. John D. Hawke, Jr., Mrs. Charles Holt, III, Michael R. Huxley, Mrs. Elizabeth Fagg Olds, Mrs. Paul Pelosi, Dr. Betty Pickett, Mrs. Thomas Reed, S. Dillon Ripley, Mrs. William Shannon, Janet W. Solinger, T. Dale Stewart, Mrs. Matthew

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FELLOWS DINNER, NOV. 1

A special dinner honoring the distinguished scientists who are participating in the 1975 Leakey Memorial Symposium "IN SEARCH OF MAN" will be held on Saturday evening, November 1, at the headquarters of the National Geographic Society. New fellows will be guests of the Foundation.

D.C. SYMPOSIUM (Cont. from page 2)
Stirling, Mrs. Seymour Strongin, Rev. John Whalen, Mrs. Thomas Wilner, Mrs. Vincent Wolfington.

Reservations are still being accepted to the two-day conference, according to Mrs. Ronald Pelosi, who is co-chairing the event. There are special student rates (\$20) as well as teacher rates (\$35), a general admission category (\$50) and a special "sponsor" category with donors of \$100 receiving a listing in the symposium program as well as one reserved seat. In addition, a number of universities in the Washington, D.C. area will be offering unit credit, among them American University and Trinity College. Those wishing to attend the two-day conference see reservation form on page 8.

WHO'S WHO (cont. from page 1)

man of the department of psychiatry at the Stanford School of Medicine and also currently serves as director of the Stanford Primate Research Facility, an interdisciplinary program of education and research relating to human behavior. Lecture: "CURRENT PERSPECTIVES ON BEHAVIOR OF GREAT APES."

F. Clark Howell, U.S. professor of anthropology, University of California, Berkeley, and chairman of the science and grants committee of the Leakey Foundation. Dr. Howell is the author of *Early Man* in the Life-Nature Library and has organized and directed interdisciplinary paleoanthropological field studies in Tanzania, Spain, Ethiopia. Lecture: "EARLY MAN STUDIES IN THE PEOPLE'S REPUBLIC OF CHINA."

Mary D. Leakey, Kenya. Dr. Leakey is the daughter of landscape painter Erskine E. Nicol and spent most of her early childhood in southern France where she first became interested in prehistory. Since her marriage to the late L.S.B. Leakey in 1936, she has worked exclusively on African prehistory particularly at Olduvai Gorge in Tanzania. Lecture: "EARLY HOMINIDS IN TANZANIA."

Paul D. MacLean, U.S., chief of the laboratory of brain evolution and behavior, National Institute of Mental Health, Bethesda, Md. Dr. MacLean's work focuses on investigations of brain mechanisms underlying basic proclivities and emotions. Lecture: "ON THE EVOLUTION OF THREE MENTALITIES OF THE BRAIN."

G.H.R. von Koëniqswald, West Germany, curator of paleoanthropology, Senckenberg Museum, Frankfurt/Main. Dr. von Koëniqswald is a paleontologist who has worked extensively in Java. Lecture: "EARLY MAN IN JAVA."

GOMBE KIDNAPPINGS -- A HAPPY ENDING!

As of September 23, the four students held captive by rebels in eastern Zaire have now all returned to their graduate studies at Stanford University, Ca., according to the Stanford News Service.

The last of the captives, Stephen Smith, was released July 25. Others captured and released were Barbara Smuts, Carrie Hunter and Emilie Bergmann. According to Smith, he and the three other captives were all "very well treated" by their captors. "Publicity was really an important part of the whole thing" says Smith. The rebel Popular Revolutionary Party "was not known at all" before the kidnapping.

Dr. David A. Hamburg, Stanford's principal liaison in Tanzania, has said the terms on which the students were released remain secret by mutual agreement with the PRP. Stanford president Richard W. Lyman has flatly denied the University made any payment for their return.

At a press conference following his release, Smith provided an interesting aside:

After the students got to know their captors, they described their work at Gombe tracking chimpanzees. "This really caught their imagination," Smith said. "We told them how chimps learn sign language and other experiments.

"They were just enthralled. They couldn't believe chimps were so intelligent. They regarded chimps as a kind of delicacy. After our talks, some said, gosh, we'll never eat chimps again. It was really incredible."

In a statement following the release, President Lyman of Stanford made special mention of the efforts of Leakey Foundation trustee Dr. David Hamburg and his wife Dr. Betty Hamburg. He said:

"A very special word of thanks should go to Profs. David and Betty Hamburg, whose manifold talents and human qualities served the students, their families and the University so well in extremely difficult and trying circumstances."

Commenting on the broader implications of the incident, Dr. Lyman said:

"The shadow that this act casts over the free and safe conduct of scientific research and study throughout the world is another sobering reminder of the distance yet to be traveled to the understanding expressed recently by the leaders of 14 national academies of science that 'the freedom to conduct research at the world's scientific stations is essential to human progress'."

MINI LECTURES TO LAUNCH NEW MEMBERS DRIVE

A very special series of monthly luncheon and mini-lectures is being scheduled this fall and spring in California for Leakey Foundation members and interested friends. A first for the Foundation, it is designed by lecture committee chairpersons Joan Travis and Tita Caldwell to acquaint prospective members as well as regular members with the first-hand scientific adventures of Leakey grantees. Three scientists have been scheduled to appear through 1975. All have just returned from the field and will give informal reports of their recent work.

Members are urged to bring interested friends. It will be an opportunity to learn about the wide variety of activities and projects supported by the Foundation.

Famed anthropologist F. Clark Howell will be the first guest, October 16. Dr. Howell has just returned from a month's visit to the People's Republic of China — one of the first scientists to be given access since 1965. He will share some of his scientific findings and impressions of this fascinating country.

On November 13, archeologist Bernard Campbell, leader of the widely acclaimed Lake Rezaiyeh Expedition, will give an intimate glimpse into some of his experiences during this past summer in Iran.

The Hon. Derek Bryceson, M.P. and director of Tanzania National Parks, will share some of his experiences with the group on December 11. Mr. Bryceson supervises the administration of all Tanzanian parks. The animal reserves situated in wild and beautiful areas of that country will provide the basis of his talk.

Initiating the spring series on February 19 will be anthropologist Sherwood Washburn. His subject: "The Origin of Language" including primate behavior, the brain and the archeological record.

Dr. O. Bar-Yosef of the department of zoology of Hebrew University of Jerusalem is expected to speak in March.

Luncheons and lectures will be at the Athenaeum of the California Institute of Technology, Pasadena, Ca. The 1975 series of three luncheon/lectures is \$20. Single luncheon/lecture, \$7.50. Single lecture, \$3.50. For reservations or information contact Leakey Foundation headquarters.



Apis Rock crew including Dr. Michael Mehlman [center] take time out for picture-taking at field site. Excavations at Apis Rock and Olduvai Gorge by Dr. Mehlman are partially funded by the Leakey Foundation and the National Science Foundation. The site was originally discovered by Dr. Louis Leakey in the early 30's but never extensively excavated. It may ultimately solve many problems of the culture and biological evolution of man in the later Pleistocene in eastern Africa.



Back together again at Stanford University after their long ordeal in East Africa are (l to r): Carrie Hunter, Dr. David Hamburg, Stephen Smith and Emilie Bergmann. Barbara Smuts will return shortly.

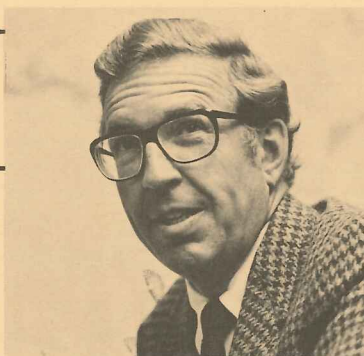
PROFILE

LEAKEY FOUNDATION PRESIDENT, AFRICAN SPECIALIST

Dr. Edwin S. Munger

Like his fellow Foundation trustees, Dr. Edwin S. Munger wears many hats. He teaches a weekly seminar on African politics and history at the California Institute of Technology where he is professor of political geography.

Another day he devotes to writing about Africa. He has published seven books and 260 articles including *Afrikaner* and *African Nationalism*, and the first book by an American on Botswana for the Oxford University Press. His articles in *Foreign Affairs*, *Encyclopaedia Britannica*, *Geographical Review*, *Africa Report* and a decade of reports for the American Universities Field Staff are based upon extensive field work. Since his first study of Monrovia, Liberia, in 1947 and a year (1949-50) at Makerere University in Uganda as the first Fulbrighter to the entire British Commonwealth, Dr. Munger has been to



Africa 34 times, lived there over twelve years, and may be the only man to have visited every country and major off-lying island.

Yet another day he edits the bi-monthly *Munger Africana Library Notes*, now in its sixth year with subscribers world-wide. The publication specializes in first-hand accounts of the African scene by Africans, a great many of whom have appeared at his Caltech seminars.

A fourth day of the week he devotes to his extraordinary personal library of over 22,000 books on sub-Saharan Africa which he has avidly collected around the world. The Ford Foundation recently financed publication of a catalog of nearly 2,000

pamphlets and other ephemera in the Library devoted to South African politics.

Dr. Munger is active in a score of African organizations including the African Studies Association, of which he was one of seventeen founding members, and the United States South African Leader Exchange Program which holds annual symposia in South Africa and the U.S. joining black and white Americans and black and white South Africans.

He frequently participates in Africa meetings at the Council on Foreign Relations in New York and chairs study sessions. A London newspaper once pointed to him as a likely choice for Assistant Secretary of State for Africa, and his recent official participation has been to lead a mission of two white and two black Americans to South Africa on behalf of the State Department Advisory Council and to evaluate the Peace Corps in Uganda and Botswana. In July he testified before the African sub-committee of the Senate Foreign Relations Committee on American policy on that continent.

A zestful traveler, Dr. Munger has visited some 132 countries on all the continents, usually with some African interest in mind. Last July he was a guest in Moscow at an international meeting devoted to arms control. This grew out of his concern for a nuclear free zone in sub-Saharan Africa and participating in Pugwash meetings in Ethiopia, Sweden, England and Austria.

But these activities are barely allowed to interfere with his three-times-a-week tennis matches and his penchant for watching professional football. He is also an enthusiastic poker player and financed his first field research in Africa with winnings in the U.S. Army in World War II.

Dick de Kiewiet, former president of Rochester University and a great Africanist, in a preface to one of Dr. Munger's books, called him "a successful experiment" in reference to his concentration upon African problems. Claude Barnett, long-time editor of the Associated Negro Press, wrote, "I've known Ned Munger for over 20 years and found him the single best informed American on Africa."

Dr. Munger is 53 and grew up in La Grange, Ill., a suburb of Chicago. His father, Royal F. Munger, was a newspaper editor and columnist and his mother, Mia Munger, a lecturer at the Art Institute. Professor Munger did his undergraduate and graduate work at the University of Chicago, where he was subsequently on the faculty.

Oh, yes, we didn't mention the fifth day in the week in which Dr. Munger volunteers his time and expertise as president of the Leakey Foundation. He has held that post since 1971. It is interesting to note that Dr. Munger was elected president at a time when there were great doubts that the Foundation would continue to exist at all. Now, four years later, and four elections later, the achievements are many: the list of Foundation fellows has grown from 60 to 230, matching funds have increased from \$40,000 to nearly \$1 million, and the board of trustees has gone from national to international in scope, now including a broad spectrum of scholars, scientists and informed laymen from at least a dozen countries around the world. Dr. Munger's dedication, interest and dynamic leadership has contributed greatly to this very meaningful progress.

LEAKEY FOUNDATION LECTURES 1975-76

October 28	Dr. Mary D. Leakey, "EARLY HOMINIDS IN TANZANIA"	California Institute of Technology, Pasadena, Ca.
October 28	Dr. J. Desmond Clark, "PREHISTORIC ETHIOPIA"	Academy of Natural Sciences, Philadelphia, Pa.
November 1-2	4th Annual Leakey Memorial Symposium "IN SEARCH OF MAN" Speakers: Dart, Campbell, Goodall, Hamburg, MacLean, DeVore, Brain, Leakey, von Koëniswald, Howell, Bordes	George Washington University, Washington, D.C.
November 3	Dr. Jane Goodall, "WHAT CAN BE LEARNED FROM CHIMPANZEE RESEARCH"	Science Teachers Assn. of New York State, Hotel Nevele, Ellenville, N.Y.
November 6	Dr. Jane Goodall, "PROBLEMS OF ADOLESCENCE IN THE CHIMPANZEE"	Erik Erikson Institute of Child Development, Chicago
November 10	Dr. Jane Goodall (lecture title to be announced)	Hilldale lecture, Biological Sciences Div., University of Wisconsin, Madison, Wis.
November 12	Dr. Jane Goodall "LONGITUDINAL RESEARCH ON WILD CHIMPANZEES"	Remsen Bird lecture, Occidental College, Los Angeles, Ca.
November 16	Dr. Jane Goodall, "CHIMPANZEE: CHILDHOOD AND SOCIETY"	University of California, Los Angeles
November 19	Dr. Jane Goodall, "CHIMPANZEES: THE RELATIONSHIP BETWEEN NEIGHBORING COMMUNITIES"	California Institute of Technology, Pasadena, Ca.
January 7	Dr. George Schaller, "THE SERENGETI LION"	California Institute of Technology, Pasadena, Ca.
January 8	Dr. George Schaller, "THE SERENGETI LION"	California Academy of Science, San Francisco, Ca.
January 18	Joseph Campbell, "THE ARCHEOLOGY OF MYTH"	University of California, Los Angeles, Ca.
February 18	Dr. Jonas Salk, "THE SURVIVAL OF THE WISEST"	California Institute of Technology, Pasadena, Ca.
March 28	Dr. Jonas Salk, "MAN UNFOLDING"	University of California, Los Angeles
April 14	R. Buckminster Fuller, "SYNERGETICS: EXPLORATION IN THE GEOMETRY OF THINKING"	California Institute of Technology, Pasadena, Ca.
May 16	Dr. Donald C. Johanson, "CURRENT PERSPECTIVES ON MAN'S EVOLUTIONARY PAST"	University of California, Los Angeles

News and Notes in Brief

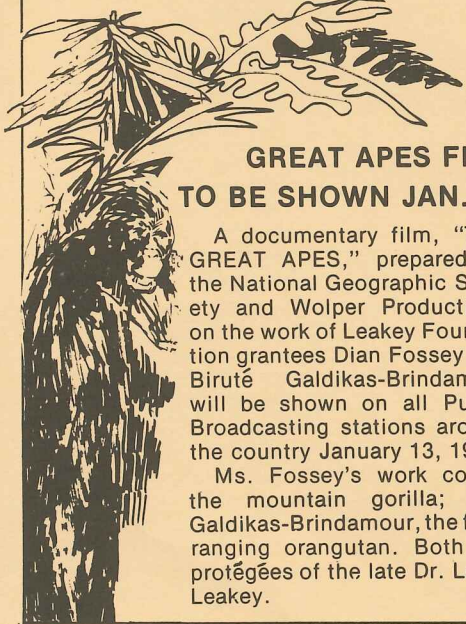
EAST AFRICAN LAND SAFARI PROPOSED FOR JANUARY

A one-month safari to east Africa beginning January 2, 1976, has been proposed by Leakey Foundation trustee Barbara Pelosi. It would include study tours of early man sites and other projects supported by the Foundation, as well as visits to the major game parks in Kenya and Tanzania. The trip would have to be kept to a maximum of 16 participants.

Among the stops being considered are: visits to the National Museums of Kenya where the Louis Leakey Memorial Institute for African Prehistory is to be erected; visits to Olorgesailie National Park; Gilgil the site of Foundation grantee Shirley Strum's research on olive baboons; Kikuyuland; Samburu Game Reserve; Masai Mara Game Reserve; the Serengeti National Park in Tanzania, best known for its magnificent lions; Olduvai Gorge, where Dr. and Mrs. Louis Leakey first began their search for early man and where the famed skull of "Nutcracker Man" was uncovered; Ngorongoro, where the greatest permanent concentration of wildlife in Africa exists.

Leakey Foundation fellows are invited to participate. Costs would include a 22-45 day airline ticket which would enable participants to add other stops enroute.

Fellows interested may write for detailed itinerary and further information. Address inquiries to: Leakey Foundation, Foundation Center 216-76, Pasadena, Ca. 91125.



GREAT APES FILM TO BE SHOWN JAN. 13

A documentary film, "THE GREAT APES," prepared by the National Geographic Society and Wolper Productions on the work of Leakey Foundation grantees Dian Fossey and Biruté Galdikas-Brindamour will be shown on all Public Broadcasting stations around the country January 13, 1976.

Ms. Fossey's work covers the mountain gorilla; Ms. Galdikas-Brindamour, the free-ranging orangutan. Both are protégées of the late Dr. Louis Leakey.

A SPECIAL CHRISTMAS BOOK OFFER

The Leakey Foundation is offering a selection of five outstanding books at special discounts for Christmas gift giving.

THE HUNTER AND HIS ART, by Jalmar and Ione Rudner. A monumental study and an award winner for unique design, this book surveys the rock art of southern Africa and attempts to answer the basic questions of who made the pictures, when and why. Both an art and ethnological document, it represents research studies made over a 20-year period and includes 60 color plates, maps, diagrams and drawings. 10"x11 1/2", 288 pages, \$32.

BY THE EVIDENCE, by Dr. Louis S.B. Leakey is a book of memoirs covering the period from 1932 through 1951. This is an intimate tale of personal adventure, overflowing with vivid description, touched by humor and revealing a profound interest in and respect for African culture. The morning after he completed this volume, he died. Some of the highlights of his later life are noted briefly in a publisher's commentary. With 12 photos, maps, 276 pages, \$10.50.

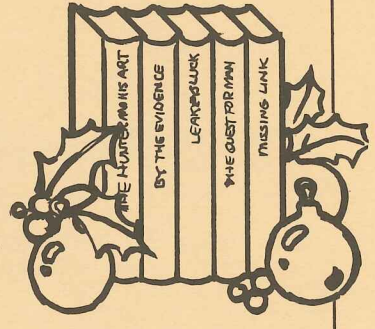
LEAKEY'S LUCK, by Sonia Cole was published this fall and is the official biography of Dr. Louis Leakey. Mrs. Cole was a personal friend and this book concerns Louis Leakey as a personality as well as a scientist. It details his explorations, his interest in wildlife conservation and museum work and includes comments from a wide range of relatives, friends and acquaintances, among them some Leakey Foundation trustees. 448 pages, \$15.50

THE QUEST FOR MAN, edited by Vanne Goodall attempts to draw together some of the threads of modern scientific and metaphysical thought concerning human evolution. Contributors are: ethologist Dr.

Jane Goodall, psychiatrist Dr. David A. Hamburg, anthropologist John Napier, archeologist Barbara Bender, ethologist I. Eibl-Eibesfeldt, and geneticist Theodosius Dobzhansky. Sir Julian Huxley has written the preface. Beautifully illustrated with 16 color plates and 191 black and white illustrations, 240 pages, \$18.50.

MISSING LINK, Time-Life "Emergence of Man" Series, this basic study reviews the evidence for the earliest phase of man's evolution: the crucial period when he separated from the common ancestor he shares with the African apes. A provocative survey, it pieces together the missing links from evidence of excavations and from observations of the behavior of our living primate relatives. A chapter on the newest clues to man's descent includes quotes from more than fifteen scientific experts. Profusely illustrated, 160 pages, \$5.50

To order any one or more of the above books, send your check or money order to the Leakey Foundation, Foundation Center 216-76, Pasadena, Ca. 91125. All prices include postage and handling costs.



"AFRICAN ORIGINS OF MAN" EXHIBIT OPENS IN SAN FRANCISCO

An "AFRICAN ORIGINS OF MAN" exhibit, a major addition to the California Academy of Science in San Francisco, opened this past July. The new display features a forty-foot mural in color plus a giant jigsaw puzzle wall, "Why Africa?" and incorporates the most recent paleontological information to come out of Africa.

Replicas of fossil bones of three hominid species uncovered in African digs, are on display behind transparent etchings of their probable full skeletons. Behind the bones is a



California Academy of Sciences unusual African exhibit includes 5300 individual animals and replicas of three species of fossil hominid bones.

new mural showing what the plants and animals of the African landscape were like when hominids lived there millions of years ago. It contains some 5300 individual animals, some familiar, others extinct.

Major consultant for the project was Dr. F. Clark Howell, Leakey Foundation science and grants committee chairman and paleontologist at the University of California, Berkeley. Dr. Howell enlisted the aid of other world authorities including Yves Coppens, Musée de L'Homme, Paris.

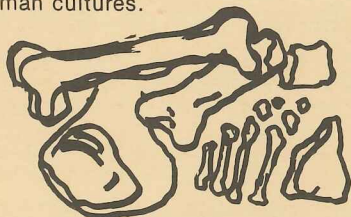
A year in creation, the mural and design of the hall is the work of Richard W. Cook, assistant curator, department of exhibits of the California Academy of Science. The text was written by Ernest Rook and researched by Margaret Day, Henry Erickson, Albert W. Zukosky, Jr. The exhibit was made possible by grants from Mr. and Mrs. Sidney Garfield and the National Endowment of the Arts.

Grant SPOTLIGHT

The Leakey Foundation continues to broaden the number, range and focus of its grant awards. In addition to funding distinguished archeological research and primate behavioral studies annually, its science and grants committee recommends the vital support, 'seed' money and/or interim funding for many additional pioneering research projects throughout the world. The following are examples of this aspect of the Foundation grant program. Contact the Leakey Foundation if you would like to make a special contribution to the support of such studies.

Dating Research, Riverside, Ca.

With a recent grant from the Foundation, Dr. R.E. Taylor of the University of California, Riverside, in conjunction with Professor T. Tombrello (California Institute of Technology) is measuring the depth distribution of fluorine in a series of geologically and archeologically derived chipped lithic materials, dated in the 1,000 to 500,000 B.P. range. This research may open up to chronological controls many artifacts and materials which archeologists could not, heretofore, directly date and lead to solutions of a number of problems in paleoanthropology and archeology, especially those relating to Pleistocene human cultures.



Bone Identification Program, London

Need exists to accurately identify bones found by archeologists and paleontologists. Englishwoman Patricia Walker, by studying many bones of one type, can draw a composite which precisely represents the species bone. Her goal: to develop an Osteological Key to identify 80-plus species of East African mammals for archeologists to use to identify their own finds.

Locomotion Pattern Analysis, East Africa

Dr. Gail Kennedy studied with anatomist Dr. Michael Day in London and has been teaching anthropology at California State, Northridge, for several years. Her research centers on analyzing locomotion patterns in early hominids, using a variety of methods. X-ray examination of the internal structure has proven especially effective in showing certain significant differences between *Australopithecus* and *Homo*. Moreover, differences in the internal structure can also be detected which seem to separate early members of the genus homo from living groups of man. The Foundation's grant enabled Dr. Kennedy to carry out some unusual radiographic research involving the use of a portable X-ray machine at various sites in east Africa.

Pacatnamu-Jequetepeque Valley Project, Peru

This long-term archeological investigation into the nature of prehistoric urbanism in the Jequetepeque Valley on the north coast of Peru was undertaken by Professor Richard W. Keatinge of Columbia University in 1974. In addition to Leakey Foundation support, the Columbia University Council for Research in the Social Sciences and the Institute of Latin American Studies have made grants. Indications are that the site had a relatively long period of habitation beginning perhaps with a Moche occupation around A.D. 500-600 and continuing until the Inca Conquest of the region in about A.D. 1463.

Typology Conference, Les Eyzies, France

The principal objective of this meeting, which was September 2 through 11 in Les Eyzies, France, was to bring together a small group of active archeologists to consider a most basic, controversial concept, typology — the classification of tools, types, categories of style, function, etc. General chairman was Professor Albert C. Spaulding, who, over many years, has been the most outspoken advocate of the need to objectify typological studies and to reach agreement on the verbal labels applied to various kinds of archeological entities that are studied. Conference participants included: Hans-Georg Bandi, Denise de Sonneville-Bordes, Professor François Bordes, Arthur J. Jelinik, Hallam L. Movius, Jr., Mark Newcomer, J.-Ph. Rigaud, James R. Sackett, Jacques Tixier, Gary S. Vescelius, and Frederick Hadleigh West. The Conference was organized by Professor West of the University of Wisconsin-Madison.

Interdisciplinary Baboon Study, Masai Mara Reserve, Kenya

Dr. Irvn DeVore, Harvard anthropologist and one of the founders of the modern study of primate behavior, along with Joseph L. Popp, also of Harvard, proposes to test theoretical models of social behavior in a population of olive baboons under natural conditions. Approximately 300 subjects will be trapped, marked for permanent identification and biomedical samples will be taken providing baseline information on baboon growth, development and morphology. Most importantly, the biomedical portion of the study will facilitate the determination of genetic relationship among the subjects through an analysis of serum protein polymorphisms and other genetic markers. Such data will, for the first time, permit a detailed investigation of how non-human primate behavior is mediated by kinship.



Although behavioral biologists, anatomists and biomedical researchers often proclaim the value of an interdisciplinary approach to primate studies, a long-term study such as this, that integrates data on the behavior, morphology and physiology of baboons has never been undertaken. Few projects promise greater impact or long-term utility.

A request for a grant for this most important research came to the Foundation in June and while few larger funding agencies have the flexibility to act fast, the Leakey Foundation was able to move quickly to rescue this project with \$4,000 interim funding and to encourage an equal sum from the Explorers' Club and a few others, until the National Science Foundation commenced support for this 3-year research program (\$88,000).

Chesowanja-Nakali Research, Kenya

The grant will help complete preliminary research at Chesowanja locality in Kenya and carry out further reconnaissance at a locality called Nakali about 50 miles north of Chesowanja. The Chesowanja Valley is important in view of its clear geological succession and long history of human occupancy of one small area. At Nakali, the only preliminary collections of fossils were made in 1959.

W.W. Bishop, head of the department of geology, Queen Mary College, London, would fly to east Africa to meet Dr. Martin Pickford, research fellow, geology, Queen Mary College, and Dr. Andrew Hill of the National Museums, Nairobi — the three of whom had previously visited the Chesowanja area and collected some hominid specimens and artifacts in several Oduwan horizons.

In both cases, completion of the work this season will enable a team of archeologists from the U.S. and U.K. to commence detailed excavations of the various artifact-bearing horizons during 1976-77.

MARY LEAKEY TO RECEIVE WOMAN GEOGRAPHERS AWARD

The Society of Woman Geographers will award Dr. Mary D. Leakey their coveted Gold Medal in a luncheon ceremony to be held at the Cosmos Club, Washington, D.C. on October 31.

The award is in recognition of Dr. Leakey's outstanding contributions to geographical knowledge. It is the highest honor given by the Society. Other recipients include Amelia Earhart and Margaret Mead.

\$25 FRIEND	<i>In the Shadow of Man</i> , Jane Goodall. (paperback) OR <i>Territorial Imperative</i> , Robert Ardrey. (paperback)
\$100 CONTRIBUTOR	<i>The Missing Link</i> , Vol. 2, "The Emergence of Man" series, Time-Life. (hardcover) OR "Women-Primitive and Modern," Margaret Mead. (cassette).
\$250 ASSOCIATE	<i>By the Evidence</i> , Louis Leakey. (hardcover) OR <i>Leakey's Luck</i> , Sonia Cole. (hardcover)
\$1,000 FELLOW	In addition to a unique encapsulated replica of a jaw of <i>Kenyanthropus africanus</i> , FELLOWS may select two copies of any of the books/cassettes listed above.
\$5,000 BENEFACTOR	In addition to a unique replica of the Olduvai Articulated Foot, BENEFACTORS may select four copies of any of the books/cassettes listed above.

RESEARCH STUDY ON POKOT TRIBE INSPIRED BY DR. L.S.B. LEAKEY

Elizabeth Meyerhoff's Dedicated Work in East Africa Began Casually with a Visit to Dr. Leakey in Kenya

The late Dr. L.S.B. Leakey had the remarkable facility to inspire young people with his enthusiasm for research. Elizabeth Meyerhoff is one of them. She met Dr. Leakey when she was an undergraduate student at the University of California, Los Angeles. As a result of that meeting, Ms. Meyerhoff went to Kenya and under the guidance and sponsorship of Dr. Leakey began studying east African cultures at the National Museums of Kenya. A year later, at the suggestion of Dr. Leakey she went to study and live with a tribe of West Pokot people documenting their life style and most especially focusing on the role of the Pokot women — their status and social power.



Meyerhoff

She planned to remain only two months, but (following the death of Louis Leakey) she stayed almost a year dedicating herself to learning the unwritten Pokot language and to establishing a close relationship with the people.

Western civilization will soon be impinging itself on the Pokot world — a macadam road is planned from Nairobi to Rudolf which will almost bisect the agricultural Pokot domain and bring with it

urban ways. It is therefore important to understand this group and its remarkable culture in its as yet unaffected lifestyle.

After a year of incredible experiences with the Pokot in which she witnessed many of their rituals, became accepted by the tribe and learned to speak almost fluently, Ms. Meyerhoff applied to Cambridge University and was accepted there on the basis of a 100-page paper she wrote describing much of what she had observed during that year, particularly their ancient custom of female circumcision. She has now completed two full years in residence at Cambridge, satisfying undergraduate and master's degree equivalents, and is well into her doctoral program.

This June a launching grant from the Leakey Foundation enabled Elizabeth Meyerhoff to return to the field to continue her important research with the Pokot in the coming year.

The following is an excerpt from a letter she wrote upon her return to the Pokot:

"It is quite amazing to be back, in many ways it feels like a place I've made home. I arrived on a Thursday [July 10]. I felt apprehensive and nervous as I drove my motorbike down 'my' road which hadn't been driven on for over a year. Parts of the road were washed away. I had to get off the motorbike and push it through the muddy riverbeds. I hadn't gone far when some of

the children came out and shouted, "Tukwenya Chemachugua . . ." And so it continued: people came out to greet me, ask how my country was, how long I'd been gone and where was Kahimurak [Murray]. The same faces, the same gestures — but slightly easier and more friendly, without the fear that had once been there. I went to my hut which was still standing, but needed new grass for re-thatching the holes in the roof. Kamsit unlocked the door and showed me that he had been using the house as a store room. The subconscious memory of the sound, smell, and feel of my hut came back to me in that moment. I then walked through the valley which is flourishing with maize. I found Chermit with some other old men under the large tree. He looked at me a long time before he rose to greet me. He slowly smiled, taking both my hands to greet me, and said, "It's good you are back." We all went together to have some beer — I paid — and the beer was passed around and shared by my friends. Chermit blessed me — everyone grunted in unison, spit on the blades of grass Chermit was holding and the grass was then passed to my open held hands and then tucked into my skirt. I was told to sleep with the grass under my pillow that night. I felt I had arrived."



There are 60,000 Pokot in northwest Kenya. Elizabeth's study will hopefully shed new light and understanding on their culture.



She speaks the unwritten Pokot language almost fluently now.



Elizabeth's research centers on the role of the Pokot woman — their status and social power. She is studying their ancient female circumcision rites among other traditions.

JOIN US! BECOME A MEMBER OF THE LEAKEY FOUNDATION

Due to the interest shown, we have extended our special membership offer through December 31, 1975. New and renewing members will receive a complimentary book of their choice.

Membership in the Leakey Foundation brings many benefits. You will receive:

- A year's subscription to the *L.S.B. Leakey Foundation News* quarterly covering our activities nation-wide as well as internationally.
- Invitations to lectures, conferences, symposia and special events with distinguished scientists from around the world.
- Discounts on significant scientific books, special transcripts, field reports, cassette tapes, and dialogues of work-in-progress.
- Travel benefits: charter trips and safari excursions at special discount rates.
- An opportunity to meet scientists in an intimate atmosphere with friends who share the same interests.
- A chance to keep up with the latest ideas and trends of utmost importance to man and his origin in the fields of archeology, anthropology and conservation.

BEST OF ALL, your contribution will directly support the work of individuals and international research teams around the world in their quest to better man's knowledge about himself, his behavior and his environmental future.

MEMBERSHIP COUPON

I would like to become a member of the Leakey Foundation in the following category:

\$10 STUDENT
 \$25 FRIEND
 \$100 CONTRIBUTOR
 \$250 ASSOCIATE
 \$1,000 FELLOW
 \$5,000 BENEFACTOR

I would like to receive the following complimentary book/cassette offered to my membership category:

If this is a renewal membership please check here:

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CITY _____ STATE _____ ZIP _____

My check for _____ payable to the Leakey Foundation is enclosed. Contributions to the Foundation are tax-deductible as provided by law.

Did you Know?

The oldest scientifically-dated human fossil in North America used to be "The Los Angeles Man," dated by the University of California as 23,600 years old. This is comfortably within the time span of 20-25,000 years heretofore generally accepted by most authorities for the arrival of the first man in North America. Now, according to a report in the *Explorer's Club Newsletter*, a trio of research scientists: Dr. Geoffrey L. Bada, professor of oceanography and a Leakey Foundation grantee and Ray Schroeder, a graduate student, both from UC, and Dr. George Carter, geographer, Texas A&M, say they have dated a skull found in a sea cliff near Del Mar, Ca., at 48,000 years. They used the new "racemization" technique for measuring antiquity. Considered of potentially major significance because the Carbon 14 method gives a reliable date only up to 40,000 years — the new technique involves studying the light-rotation properties of amino acids which play such an important part in the growth and repair of animal and plant tissues.

Modern techniques of molecular analysis called electrophoresis have made it possible to "fingerprint" proteins, the organic compounds from which virtually all organs, enzymes and other components of living creatures are built after an appropriate gene gives the signal. This kind of protein analysis has given students of evolution a powerful new tool. Measuring similarities between certain critical

proteins in species helps establish the genetic distance between them, and has helped scientists draw evolutionary trees that support Darwinist interpretations. The protein difference between frogs for example, confirms that their species separated scores of millions of years ago; the microbiological similarities between man and chimpanzee show that their common ancestor was much more recent.

RESERVATION FORM: 1975 LEAKEY MEMORIAL SYMPOSIUM, WASHINGTON, D.C.

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The L.S.B. Leakey Foundation invites you to SPONSOR the Washington, D.C. Symposium, "In Search of Man". SPONSORS making a donation of \$100.00 to the symposium will be listed in the program, and will receive one complimentary ticket, with reserved seating, for each donation in that amount. I wish to SPONSOR the L.S.B. Leakey Foundation Symposium, "In Search of Man". Enclosed is my check for \$100.

Note: No reserved seating available except for participants and sponsors (rows 1-2).

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