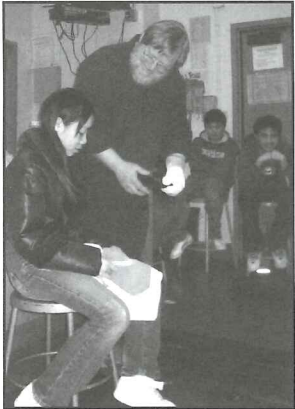


The Leakey Foundation

# AnthroQuest

## Newsletter

no. 18 / Summer 2007



### Leakey Foundation Schools' Program Brings Science to the Students

By Danielle M. Dana  
Director of Communications

In 2005, the Leakey Foundation officially introduced an educational outreach component to our annual Speaker Series program. This program was piloted in 2005 when Dr. Dan Lieberman, Harvard University Professor, brought his lecture on the evolution of running to the Chinquapin School. The Chinquapin School is a nonprofit, college preparatory school, grades six through twelve, for economically disadvantaged youth from the Houston area. In 2007, we went back to the Chinquapin School with Nicholas Wade, science writer for the *New York Times*. Mr. Wade provided the students with a captivating look at DNA and what it can tell us about our past. It was an outstanding event.

Mr. Gordon Sichi, Headmaster for the Anacapa School in Santa Barbara, described the experience his students had with Dr. David Lewis-Williams in March 2006 as "truly exceptional."

Ms. Irene Kasai and nearly 200 students from Santa Barbara High School had a similar experience with Dr. Lewis-Williams in 2006. Ms. Kasai expressed that the Schools' Program lecture ignited some provocative discussions in class dealing with art, perception, and the growth of the human mind. She went on to say that "Our school demographics show that many of our students would not have had the opportunity to be exposed to this material and be able to ask Dr. Lewis-Williams questions. I hope the Leakey Foundation will continue to support this program for our public schools." Dr. Lewis-Williams could not have agreed more. Following his return to Johannesburg, South Africa, Dr. Lewis-Williams wrote the Leakey Foundation a letter in which he stated, "These occasions are wonderful opportunities for enthusing young people and getting the science of human origins across to the public. I would consider this program one of the most important and rewarding parts of my lecture tour with the Leakey Foundation."

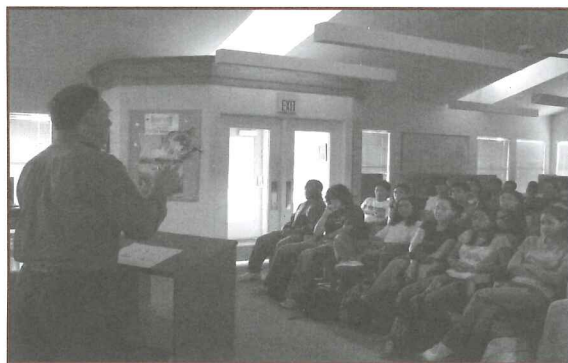
In February, the Leakey Foundation had the privilege of hosting Dr. Harold Dibble from the University of Pennsylvania, in San Francisco as part of our 2007 Speaker Series. Dr. Dibble is an expert on the flintknapping and manufacture of stone tools. In conjunction with his lecture in partnership with the California Academy of Sciences, Dr. Dibble visited two schools as part of the Leakey Foundation Schools' Program. The first was Galileo Academy of Science and Technology in San Francisco and the second was Sir Francis Drake High School in Marin County. What made these experiences so unique was that Dr. Dibble provided each campus with a private flintknapping demonstration, and generously donated a manufactured hand-axe to the campus as a future learning tool. Ms. Francie Chu, science teacher at Galileo said, "this was one of the best educational experiences my students have ever had." She further explained that, "this program bridges the gap between scientific discoveries and science education. To my students it was both engaging and provocative."



In New York, at the Manhattan Center for Science and Mathematics, Dr. Eugenie Scott, Executive Director of the National Center for Science Education, spoke to over 200 students about the debate concerning evolution and creationism. "It was a fascinating lecture," described one listener, "I had never really examined the debate and I feel that this experience provided me with an amazing opportunity to further explore science."

This program is one that the Leakey Foundation hopes to be able to continue, as well as expand over the coming years. Bringing educational outreach lectures into high school classrooms is another way in which the Leakey Foundation can help facilitate a better public understanding of human origins science, especially at a time when scientific thought seems to be under scrutiny. Mrs. Camilla Smith, Leakey Foundation Trustee emphasizes the importance of this program when she says, "Putting scientists in front of the public, including outreach to schools, allows for the science of human origins to be explained in detail. Once people have heard it, few listeners can resist how fascinating the science is. Paleoanthropology explains what it is to be human."

The Leakey Foundation would like to thank the Brown Foundation, Inc. for their generous support of the much-needed visits to the Chinquapin School. We would also like to thank Wells Fargo Bank, the National Sponsor of the 2007 Speaker Series.



Top Photo: Dr. Harold Dibble at Galileo High School in San Francisco, CA

Middle Photo: Dr. Zeresenay Alemseged at Wakefield High School in Arlington, VA

Bottom Photo: Nicholas Wade at the Chinquapin School in Houston, TX

The mission of the Leakey Foundation is to increase scientific knowledge, education, and public understanding of human origins, evolution, behavior, and survival.

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## Dear Friends of the Leakey Foundation,

On March 10, 2007, The Leakey Foundation experienced a monumental loss with the passing of famed paleoanthropologist, Dr. Francis Clark Howell. His tremendous passion for the science of human origins led him to be one of the founding architects of the Foundation, along with his colleague, Louis Leakey; they both were principle leaders in establishing the multidisciplinary mission that the Foundation celebrates almost 40 years after its establishment. Dr. Howell was the Chairman Emeritus of the Leakey Foundation Scientific Executive Committee, as well as a valued Trustee of the Foundation. Much of Dr. Howell's research and intellect appeared in the pages of *AnthroQuest*, and we will share more of the life and work of Dr. Howell in the next issue of *AnthroQuest*. The Leakey Foundation and the scientific world will deeply miss his knowledge, enthusiasm, wisdom, and support. We send our condolences to his wife and field companion Betty, and his children Brian and Jennifer.

Louis Leakey and Clark Howell's vision of scientific exploration and curiosity flourishes, thanks in part to the Leakey Foundation Fellows and members. Many of you have probably read the November 2006 issue of *National Geographic* which featured a cover article on Dr. Zeresenay Alemseged's remarkable discovery of the oldest juvenile fossil. The Leakey Foundation supported Dr. Alemseged's research and many groundbreaking projects by other Leakey grantees about which the public will soon learn. Discovery is at the heart of our mission, and our members are at the heart of our ability to fund this extra ordinary science.

Because of the continued support from Fellows and members, we were able to fund twenty-five grantees at the April 21 granting session. We were also able to provide three Baldwin Fellowships to native Africans who will be completing their Ph.D studies, with the help of our Foundation. The Leakey Foundation will keep you posted on the research and discoveries of these new Leakey grantees.

Besides funding important science research, there are benefits of being a Leakey Foundation member and Fellow. The Foundation wants to provide our Fellows and members with special opportunities that will bring them closer to science and discoveries.

Recently, the Leakey Foundation Board of Trustees and Fellows, joined by a group of scientists, visited Santa Fe, New Mexico for a lecture with David Coulson on African Rock Art. While in Santa Fe, the Foundation provided a variety of exciting adventures and excursions, including an opportunity to spend an afternoon exploring San Lazaro Pueblo. The Pueblo, not open to the public, is known for being one of the largest historic pueblos in Santa Fe with an incredible number of archaeological artifacts. Whether the topic is the prehistoric peoples of Africa or our closer native ancestors in the southwest, the Leakey Foundation is committed to inquiry and discovery.

We know that the layperson shares the passion of the professional scientist, and we are committed to involving the public in the study of human origins. For this reason, we endeavor each year to bring scientists in direct contact with our members and encourage collaboration and knowledge sharing among the public and science community. At the Leakey Foundation, we work hard to nurture the curious minds of children and adults alike. In fall 2007, will announce the 2008 Speaker Series and hope that you will join us for one of these celebrated lecture events.

We owe a great deal to the enduring interest of our members and look forward to sharing another productive and enlightening year of discovery with you.

With thanks and best wishes,



William M. Wirthlin, Jr.  
President

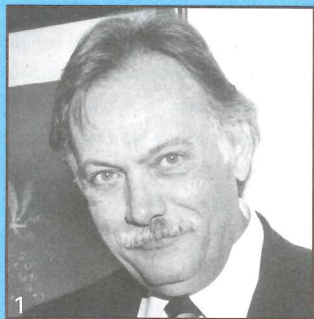


William M. Wirthlin with  
Dr. Jean Clottes exploring  
the Niaux caves in France in  
September 2006.



## Leakey Foundation Welcomes New Trustees

The Leakey Foundation is pleased to announce the appointment of eight new members to the Board of Trustees: Dr. F. Clark Howell, Mark Paxton Jordan, Julie M. LaNasa, G. Robert Muehlhauser, Jeanne Newman, Joy Sterling, Naoma Tate and Cole Thomson. Each of the new Trustees offers valuable business experience, a strong interest in philanthropy and a dedicated passion for human origins research - important attributes that will help the Foundation meet its goals and continue its exploration of our human past.



Dr. F. Clark Howell

Professor Emeritus in Anthropology from the University of California, Berkeley, Dr. Howell received his PhD. from the University of Chicago. Clark has been a driving force in the development of modern interdisciplinary field research in human biological and cultural evolution—with special interests in paleoanthropology and human paleontology, anatomy, and human biology. He can be credited, in fact, with bringing the term “paleoanthropology” into common use and thus established the recognition of paleoanthropology as a special field of study. He has traveled widely to study first hand the fossil record for the origins and evolution of humankind throughout Europe, Indonesia, China, and the Middle East. Clark has been the guiding force of the Foundation’s scientific program since its inception and was honored with the prestigious Leakey Prize in 1998.

**The Leakey Foundation regrets the passing of Dr. Howell on March 10, 2007 at his home in Berkeley, California. His knowledge of paleoanthropology was unparalleled and his commitment and support of the Leakey Foundation is irreplaceable. The Leakey Foundation will deeply miss his knowledge, enthusiasm, wisdom, and support. We will continue to honor his memory, life and work.**

Mark Paxton Jordan

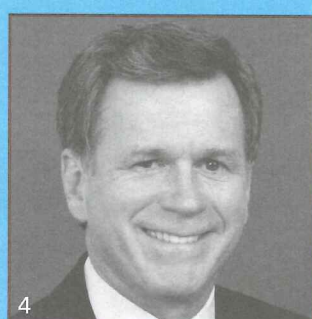
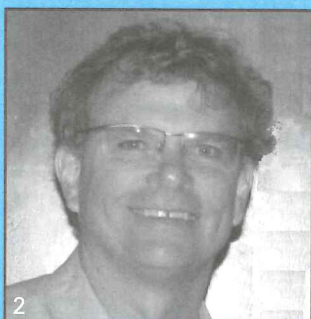
Mr. Jordan has a long-standing personal interest in science and anthropology and its importance to our understanding of the world and our future. He has hands-on knowledge of applied scientific research including design, methodology, and field study. He presently focuses his talents on sustainable business models and portfolio management. Mr. Jordan has served on the Boards of WaterKeepers Northern California, Monterey Horse Park Board of Directors, Modern Pentathlon 2002 World Championship, the Athens Environmental Foundation Advisory Board, and the Woodrow Wilson Center. He has been a donor of the Leakey Foundation since 1998.

Julie M. LaNasa

As founder and Managing Director of Collaborative Consulting, Ms. LaNasa has extensive experience working with a broad base of profit and non-profit organizations on strategic, organizational and change management issues. She has been integral to the creation of strategies and global customer partnerships in several Fortune 100 companies. She is a frequent contributor to leading industry journals and events. For the past two years Ms. LaNasa has worked with the Leakey Foundation to increase its understanding and insights of key donor groups and has recently facilitated trustees in the revision of the Foundation’s mission and vision. Ms. LaNasa and her husband share a love for travel and learning about new cultures.

G. Robert Muehlhauser

Mr. Muehlhauser has had over 30 years of leadership experience within the Financial Services Industry and as a private consultant. His core career was Corporate and Investment Banking within Bank of America and Bank of America Securities. He is a past Board member of Chicago’s Shedd Aquarium and Metropolitan Family Services and the Exploratorium in San Francisco. He is currently a member of the Boards of the San Francisco Zoological So-



ciety, Westminster College in Missouri, and is a Consultant to the Miami based Wallace H. Coulter Foundation.

Jeanne Newman

Ms. Newman worked in design, publishing, and retail, and in 1975 co-founded Calera Wine Company and vineyard in Hollister, California, with Josh Jensen. Ms. Newman helped found Other Minds, a new and innovative music organization in San Francisco. Ms. Newman has been involved in environmental activism, dance and music organizations and is a board member of The Del Sol String Quartet. Her years of fund raising and event planning for schools, arts organizations, and environmental non-profits, and her love of science and travel has led Ms. Newman to pursue her interests within the Leakey Foundation’s mission.

Joy Sterling

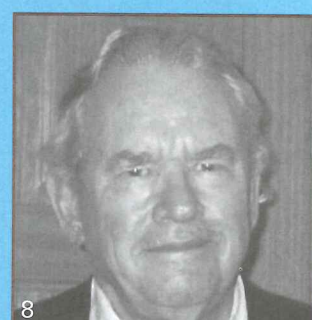
Ms. Sterling grew up in Paris, but returned to the United States to attend Yale University where she studied history and economics. She went into journalism, first for United Press International, followed by local television, and ultimately, network TV news. At the age of 29, Ms. Sterling was Deputy Bureau Chief for ABC Network News in Los Angeles. In 1985, Ms. Sterling left ABC’s hierarchy to join her family’s business – Iron Horse Vineyards. Ms. Sterling quietly took up the reins at Iron Horse at the start of 2006 and is currently the CEO of the winery. She is also the author of four books. Also known as an adventurer, Ms. Sterling has climbed Kilimanjaro, trekked in Tibet and Bhutan and run white water rapids on the Bio River in China. She has a strong background in marketing and an eye for fundraising. In 2007, Joy Sterling led the Leakey Foundation in a celebrated Earth Day event in Northern California’s Green Valley.

Naoma Tate

Ms. Tate graduated from the University of Utah with a bachelor of science, majoring in history. She had a special emphasis in art history and English literature. Her first interest in anthropology began in a history class at age 15 when she learned about Dr. Leakey and his work and discoveries. She loves to collect fossils, gems and gem specimens, antiques, art and is particularly interested in archeology. She has certificates in Gemology from the Gemological Institute of America. She is currently serving on the Board of Trustees for the Buffalo Bill Historical Center in Cody, Wyoming. Her primary residence is Cody, Wyoming. Traveling and learning about other cultures and ideas is very important to Ms. Tate. She is fascinated with human evolution and behavior and is dedicated to supporting better knowledge and understanding of our evolutionary past.

Cole Thomson

Mr. Thomson attended the University of Texas where he received his undergraduate and law degrees. He also attended the PMD program at Harvard Business School. Most of his working life has been spent in the investment field with emphasis on banking and real estate. He was a cofounder and served on the boards of several Houston banks and other financial institutions. Aside from the study of early man, his outside interests include ancient and medieval history, art, and architecture. In connection with these interests, he has traveled extensively in Mediterranean Europe, the Balkans, and the Near East. He is a long time supporter and has studied and traveled with the Texas Foundation for Archaeological & Historical Research.



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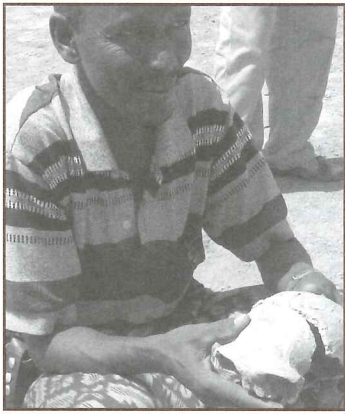
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## The Gona Paleoanthropological Research Project, Afar, Ethiopia

By Dr. Sileshi Semaw Director, Gona Project



Gona is among the most important paleoanthropological sites in East Africa. It documents the biological and behavioral origins and evolution of ancestral humans for the past six million years. It is located in the west-central part of the Afar and adjoins the two fossil-rich sites of Hadar and the Middle Awash. Primarily, it is known for yielding the oldest stone tools in the world, dating as far back as to 2.6 million years ago. In 1997, a multi-disciplinary integrative team was organized for a six year project of extensive field investigations, and with successful results. To date, the Gona team has discovered numerous fossilized hominid specimens from several key time intervals from the Late Miocene to the Early Pleistocene, including archaeological materials of Plio-Pleistocene age. These discoveries are critical for understanding the biological origins and behavioral evolution of ancestral hominids. The major hominid discoveries during the past six field seasons include the recently announced *Ardipithecus ramidus* specimens dating back to 4.5-4.3 million years ago, hominid teeth estimated to be from the Late Miocene, and several skulls and associated archaeological materials from the Early Pleistocene.

Sileshi Semaw has received 9 grants from the Leakey Foundation to continue his important research in Gona, Ethiopia

In 1984, I was assisting the late Desmond Clark, Berhane Asfaw, Tim White and Gen Suwa while working as a historian at the National Museum of Ethiopia. It was during that time that I became aware of the importance of Gona, and I developed ambitions to further my studies in paleoanthropology. In the late 1980s I received a scholarship arranged through the Ministry of Culture of Ethiopia to study palaeolithic archaeology under Jack Harris, and we were issued a research permit to initiate fieldwork at Gona. The brief survey of that summer was my first encounter with the field of paleoanthropology, which would eventually become my lifelong career. My Ph.D. dissertation was written on the results of an extensive and systematic fieldwork in 1992 of two archaeological excavation sites from the east side of the Kada Gona River. More than two thousand very fresh stone artifacts were collected from the surface of the two sites. The materials were excavated within a sealed context, which meant that they were found exactly where they were discarded by their makers 2.6 million years ago. Dr. Paul Renne of the Berkeley Geochronology Center implemented dating techniques on the Gona archaeological materials, which yielded an age between

2.6-2.5 million years old. This proved that the archaeological materials were the oldest in the world to be uncovered thus far.

After I completed my dissertation in 1997, a postdoctoral fellowship was offered by CRAFT, currently the Stone Age Institute of Indiana University. This provided the base for organizing the 1999 Gona Project, which began the systematic investigation of the entire Gona deposits. The large multi-disciplinary team of scientists was comprised of individuals such as Scott Simpson, physical anthropologist from Case Western Reserve University; Jay Quade, geologist from Arizona University, Tucson; Michael Rogers, archaeologist from Southern Connecticut University.

Thanks to the generous grants from the Leakey Foundation, the team was able to undertake field research for the past six consecutive years. The results of the investigations include the discovery of archaeological and paleontological sites that contained numerous ancestral hominid fossils documented from several key time periods in human evolution. The Gona team collected more than five thousand identifiable fossilized fauna and over seven thousand stone artifacts, mostly Oldowan, from levels dating between 2.6-1.5 million years ago. Among the major discoveries are close to 50 hominid specimens. The discovery of mandibles, finger and toe bones, and more than 30 associated and isolated teeth assigned to *Ardipithecus ramidus* found in the Gona Western Margin were recently published in *Nature* (January 19, 2005, issue). A most spectacular discovery of an Early Pliocene complete maxilla and associated postcrania was made during the 2005 field season. Currently, project members and invited scientists are analyzing the Late Miocene hominins discovered from the Gona Escarpment, and several other Early Pleistocene hominid skulls and postcrania found in the Dana Aoule and the Busidima deposits. The team is excited to return to Gona to continue excavation of the site.

I owe the success of the Gona Project to my research colleagues and Afar friends. I would also like to thank the ARCCCH of Ethiopia for the permits, and the CRAFT Stone Age Institute for the Research Scientist position. Partial funding of the Gona Project was provided by the RHOI/NSF for the Mio-Pliocene research, and I am very grateful for the support of Clark Howell and Tim White.

The support from the Leakey Foundation has established Gona as one of the most important sites in Africa for understanding human evolution. The 1999 funding for the Gona Project was an unprecedented large grant from the Leakey Foundation for any such projects and it has insured continuous funding for our fieldwork. Despite the scarcity of funding from the major granting agencies, we were able to successfully launch consecutive field seasons, and our research endeavor was rewarded with major discoveries. It would have been impossible to carry on the past six years of fieldwork at Gona without the continuous support of the Leakey Foundation.



Photos courtesy of Sileshi Semaw



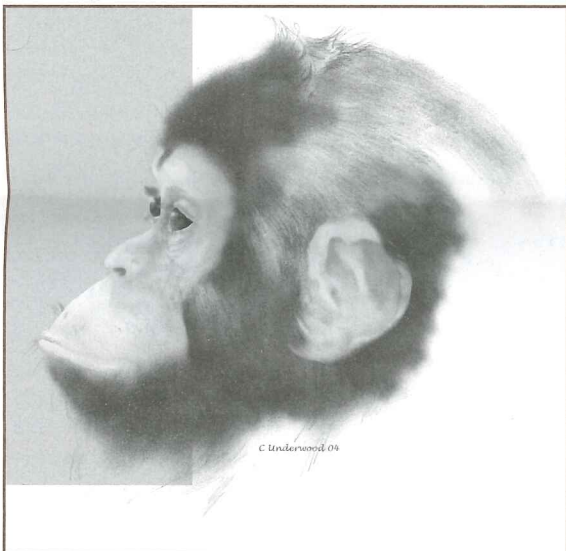
## The Flint Mystery Solved

Dr. Adrienne Zihlman  
University of California, Santa Cruz

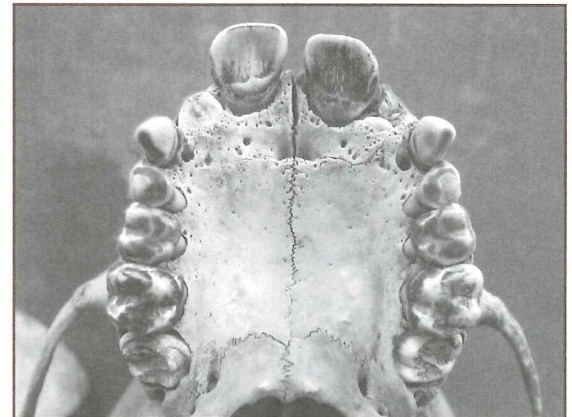
The sad story of Flint, a young chimpanzee from Gombe National Park, Tanzania, as told by Jane Goodall, is well known. When his mother Flo died, her young son Flint was still highly dependent on her and died of grief 3 weeks later, despite his sister Fifi's attempt to care for him. Goodall saved the bones of Flo and Flint and other Gombe chimpanzees, thinking that someday they might be useful for science. In the late 1970s, I began studying these bones. I was later joined by Mary Ellen Morbeck, and the Leakey Foundation supported our research.

Flo, who was near 50 years old when she died, was missing many teeth, those that remained were badly worn, and she had at least two healed fractures. Remarkably for her age she had no arthritis and was one of the larger individuals of the Gombe sample.

Flint, Goodall had observed, was a "mommy's boy" who hung out very little with the other males, unusual for Gombe males of his age. In our study, he had his second permanent molars, equivalent to 12 years in human growth stages, although he was only 8.5 years. His arm and leg bones were unfused, a typical sign of immaturity. When we compared his dentition to captive chimpanzees, who get their permanent molars at about age 6.5 years, nearly two years earlier than Flint, we found that he was growing more slowly. At that time there were no other immature wild chimpanzees in museum collections of known age and sex for comparison. It was a mystery why Flint's growth and development seemed so retarded compared to captive chimpanzees.



Palate of 8.3 year old Tai chimpanzee showing the partial emergence of M2, the second permanent molar, deciduous canines and emerging permanent lateral incisors.

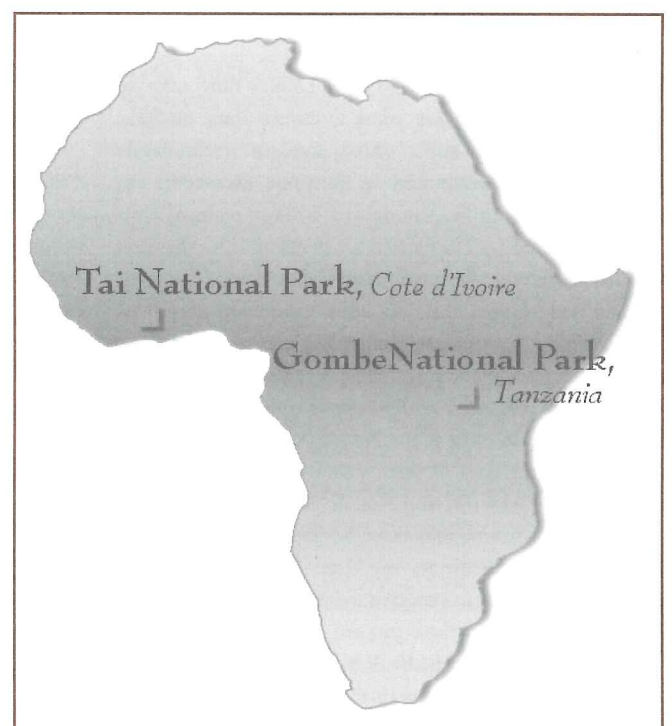


I was particularly interested in comparing the Taï and Gombe chimpanzees. The Taï collection is remarkable in having 22 immature individuals, representing nearly every age. Like Flint, the second molars (M2) of the Taï immature chimpanzees didn't emerge until age 8 years, and their bones were at the same stage of growth as Flint's. In other words, a population of wild chimpanzees thousands of miles from Gombe showed that Flint's growth and development were normal for chimpanzees of his age, not retarded, as the comparison with captive chimpanzees had suggested.

All the wild chimpanzees so far studied show a similar pattern of growing more slowly than the captive chimpanzees, who evidently mature faster due to good nutrition and absence of predators and of life's stress in the forest. When Christophe, Debra and I published these results (Proceedings of the National Academy of Sciences July, 2004) we pointed out that the now-established later ages of wild chimpanzees fall within estimated ages of some hominin fossils, for example, "Turkana boy" in contrast to the previous idea that growth in *Homo erectus* slowed down relative to chimpanzees. The solution of the mystery of Flint's "slow growth" has unexpectedly shed new light on the growth and development of some of our early ancestors.

In the meantime, I continued my research on the body composition of apes that died of natural causes in captivity, measuring soft tissues as well as bones, and wondering more about how apes grow. My friend and mentor Sherwood Washburn had collected a large sample of vervet monkeys in Uganda in 1947 and passed them on to me in 1987. These 63 meticulously prepared skeletons included females and males, young and old, and Washburn's amazing field notes recorded sex, body weights, many measurements such as trunk length, and even muscle and organ weights! Utilizing Washburn's information on these monkeys, my newly enrolled graduate student Debra Bolter and I used dental age categories as a way to compare young with adults in this sample, thus establishing comprehensive methods that had not been previously available.

About this time, I also began a collaboration with Christophe Boesch on the chimpanzee skeletons of the Taï National Park, Côte d'Ivoire, and once again the Leakey Foundation provided research support. In the 1970s, Christophe and Hedwige Boesch-Achermann began research there which continues to the present. Like Jane Goodall, they realized the value of collecting the bones of individuals after they died of natural causes.







## The Moab Expedition

By Bill Wirthlin, Leakey Foundation President

“Whether hiking down a canyon in Utah in search of ghostlike images on high cliff walls, or driving for days through the Air Mountains of Niger looking for petroglyphs lost among the great piles of dark boulders, we are drawn by the desire to find, to admire and to study the works and worlds of people who lived in times long past.” *World Rock Art*, Jean Clottes, 2002.

The Leakey Foundation did it again—a resoundingly interesting expedition into the kodachrome area of southeastern Utah, which provided the opportunity to engage the vast knowledge of the world’s foremost rock art expert, Jean Clottes along with enjoying classical music and the effusive warm hospitality of the Moab Music Festival committee members (including one of our Trustees—Alice Marks Corning).

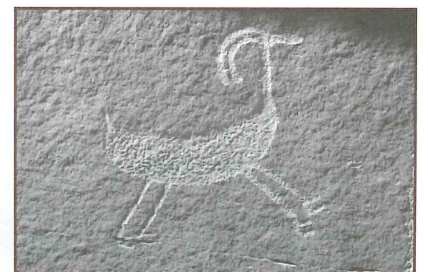


Rock art is inherently mysterious and enigmatic. With the experienced direction and tutelage of Craig Barry (past president of the Utah Rock Art Association) we were able to visit and study several fascinating sites. By the end of the week participants could identify image styles and the corresponding estimated rock art age. However, interpreting the message of the art involved much subjective speculation and imagination from the observers. Our most effective time for discussing and interpreting the underlying message of rock art was around the dinner table with a little assistance from a meritorious pinot noir.

For me, one of the most interesting highlights was to observe Jean Clotte’s methodical study and information gathering technique deployed at each site. Jean is clearly passionate about his work as evidenced by his intense look of amazement and fascination as he freshly stalks each new rock art panel site. His expression is that of a child’s first steps through Disneyworld’s main gate—eyes fixed, jaw slightly agape with a murmuring “wow!” Jean

taught us to observe the surrounding natural features of the rock art site—the streambeds, local mountains, cliffs, color of contiguous panels—with the intriguing shamanistic concept that sometimes the rock panel selects the artist rather than the artist selecting the panel. Jean once reflected about a bit of wisdom passed on to him from one of his past valued professors, “we are eternal students, enjoying the privilege to learn every day of our life.” We were truly privileged to share his presence.

We all enjoyed the deep abiding beauty and complex mystery of this part of the planet. Many participants vowed to make an annual trek to the Moab Music Festival as an excuse to further explore in this special place. I confess—I will participate in years to come.



Photos courtesy of Bill Wirthlin



Photo courtesy of Natalie Dana, 2005

## Excavation at the Middle Paleolithic Site of Roc de Marsal

By Jennifer Tsyn, Program Assistant

Since the mid-19th century, over 300 sites have been excavated in the southwest region of France, one being a small cave called Roc de Marsal. Just south of Les Eyzies, the southwest opening of this cave peeks out of its cliff face, over looking the Vézère River. One of the first excavations of the area began in 1953 by Jean Lafille. Though LaFille was an amateur, he worked scrupulously and his work was remarkably well documented. In 1961, Lafille uncovered the remains of a Neandertal infant. The skeleton, believed to be that of a 2-3 year old infant, was found face down, on its right side, with the legs bent backward, and fairly well connected anatomically. The possibility that the burial of the infant was intentional has compelling implications for the social and symbolic behaviors of the Neandertals.

Technology has dramatically advanced since Lafille’s time, offering new techniques that allow for more accurate data analysis. Anthropologists hope to apply these modern technologies to much of Lafille’s materials and to continue excavating the surrounding areas. During the summer of 2004, a team of first-rate anthropologists led by Dr. Harold L. Dibble & Dr. Shannon P. McPherron, along with their colleagues Dr. Dennis Sandgathe and Dr. Alain Turq began their six-week excavation season of Roc de Marsal. The Leakey Foundation has continued to fund this project since the summer of 2004, enabling the team to continue their work and successfully expand upon Lafille’s work. The team has planned to analyze the Neandertals’ use of land and resources by comparing data of three surrounding sites: Combe-Capelle bas, Pech de l’Azé IV, and Roc de Marsal. To date, they have found an intact hearth and three hominin teeth at Roc de Marsal. As excavations continue, the team has found that the bedrock is more complex than expected, containing numerous pits. They hope to assess whether these pits are natural or if they were intentionally dug through the bedrock by Neandertals. The goals for the 2006 season included further investigation of the second pit, and to assess its natural or anthropogenic origin. The team had also planned to examine the sediments and other materials contained within the pit to investigate if the fillings were intentional events or simply normal accumulation during occupation. As the team

enters the lower levels of the site, they will continue to examine dating, micromorphology, and sediment samples in hopes to construct a paleoenvironmental and geochronological context.

*Dr. Harold L. Dibble is a professor in the Anthropology Department at the University of Pennsylvania, and the Curator-in-Charge of the European Section at the University Museum at U Penn. He received his Ph.D. in Anthropology from the University of Arizona, and has published ten books, over eighty peer-reviewed articles, book chapters, and numerous comments and reviews. The Leakey Foundation has supported Dr. Dibble’s various projects at Middle Paleolithic sites in Dordogne, France, since 1997.*

*Dr. Shannon J.P. McPherron received his PhD. in Anthropology from the University of Pennsylvania, and is currently a research scientist at the Max Planck Institute for Evolutionary Anthropology (Leipzig, Germany). His work and publications include stone tool analysis of Lower and Middle Paleolithic collections, survey and excavation in western Europe and Africa, and the application of modern technologies and computerization in archaeological data collection and analysis.*

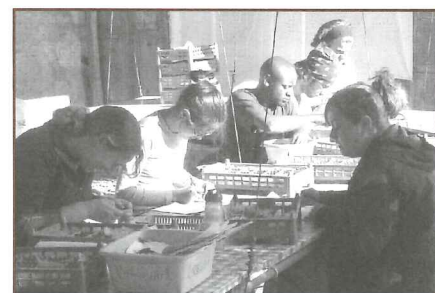


Photo courtesy of Natalie Dana, 2005



Join us!

Become a member today and have a hand in the next discovery!

**NEW** – We encourage past and current Leakey Foundation Grantees to become a member of the Leakey Foundation Alumni Society. The goal of the Leakey Foundation Alumni Society is to reach, serve and engage all Leakey Foundation grantees and to foster a lifelong intellectual and emotional connection between the Foundation and its grantees. The Alumni Society allows us to honor our grantees, while providing grantees with a way to help support their colleagues.

**LEAKEY FOUNDATION ALUMNI SOCIETY  
FOUNDING MEMBER**

(\$500 and up) For a limited time, from now through the end of 2007, you are invited to join the Alumni Society as a **Founding Member**. As a **Founding Member** of this distinguished group, your name will be engraved on the **Leakey Foundation Alumni Society** plaque that will be displayed at the Foundation headquarters. All **Alumni Society** member names will be highlighted in a special section of the Leakey Foundation Newsletter, *AnthroQuest*, to which they will also receive a subscription. All members will receive advance notice of special events, including lectures and symposia, priority reservations for ticketed events, ticket and merchandise discounts and a one-year subscription to *Evolutionary Anthropology*. Upon joining, we will send you a *Leakey Foundation Alumni Society* lapel pin.

**LEAKEY FOUNDATION ALUMNI SOCIETY  
GENERAL MEMBER**

(\$100 – \$499) General members will receive a Leakey Foundation Society lapel pin and their name will be highlighted in *AnthroQuest*. All Members will receive advance notice of events, discounts on merchandise and tickets and complimentary annual subscriptions to *AnthroQuest* and *Evolutionary Anthropology*.

**Also NEW –**

**EXPLORERS' YOUTH MEMBERSHIP (\$50)**

To encourage scientific curiosity among youth ages 6-13, members receive an annual newsletter, *AnthroTails*, created for youth ages 6-13 and a newly designed Leakey Foundation tee shirt, sized just right for our new youth members. (Children sizes S-XL)

**Students and Educators (\$60)**

K-12, university students, and educators receive advance notice of special events including lectures and symposia, priority reservations and merchandise discounts.

**General Member (\$100 – \$249)**

General members receive advance notice of special events including lectures and symposia, priority reservations, merchandise discounts, a one-year subscription to the Leakey Foundation newsletter, *AnthroQuest*. Members may also receive an optional annual subscription to *Evolutionary Anthropology*.

**Sponsor (250 – \$499)**

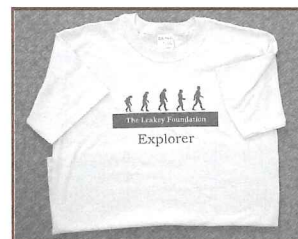
Sponsors of \$250 or more receive the regular benefits of membership and the semi-annual Report of Grants.

**Patron (\$500 – \$999)**

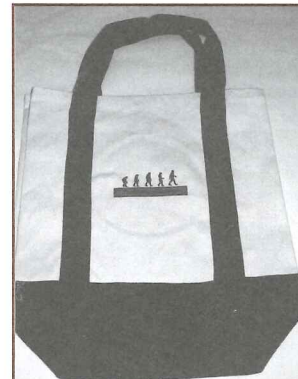
Patrons of \$500 or more receive the regular benefits of membership as well as invitations to workshops and receptions.

**Fellows**

Donors of \$1,000 or more are eligible to travel to research sites on exclusive Leakey Fellows Expeditions and to attend the Annual Fellows Dinner (two invitations per Fellow). Fellows receive invitations to private dinners hosted by Trustees and exclusive invitations to attend lunchtime lectures with scientists.



Explorer's youth tee (S-XL)



Tote Bag: \$20 for members

**Director's Circle**  
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**President's Circle**  
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**Chairman's Circle**  
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Yes! I want to support the work of the Leakey Foundation.

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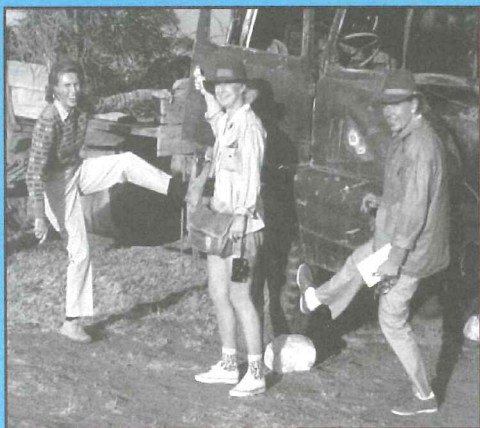
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Thank you for your support of the Leakey Foundation







From left, Gay Bradley, Barbara Newsom, and Kay Woods on one of their many adventures in Africa.

## In Memory of Gay Bradley

By Barbara Newsom

The Leakey Foundation will greatly miss a source of joy and brightness in the loss of Gay Bradley, a long time member of The Board of Trustees. Her inquiring mind, positive attitude and tireless work on behalf of the science of human origins made her a model to all of us.

Gay had a breadth of interests and served San Francisco in several of its efforts to become and to remain a cultural center in California. She was very much a San Franciscan, who lived in Hillsborough. It is claimed that the only people who live outside the city, but can rightfully claim to be San Franciscans, are Hillsborough residents.

Gay made it a point to personally know every scientist who served on the Scientific Executive Committee. She often hosted them while traveling in the Bay Area, and in return she received private insights into their areas of study. This made her an informed and assiduous fundraiser. Her success was enhanced by her personal passion for the science and close attention to the details of research.

For more than 20 years as a Trustee, Gay held several offices within the Executive Board of the Foundation. Among her many accomplishments, she co-chaired with Kay Woods

a symposium in Berkeley that broke new ground for the Foundation. The symposium discussed diet and human evolution, and it was not only a great success, but it spawned new interest in the effects of diet in early humans.

We cannot be sure what brought Gay Bradley to the Foundation. She had a lifelong interest in Africa, having made many trips abroad with her husband Jack. She had a lifelong interest in contemporary art, music, and literature, which was complimented by her scientific curiosity and involvement with the Leakey Foundation. It is our great privilege to have known this bright and lively woman. She brought great verve, strength, and joy to everything she did. Gay Bradley brought gaiety to our lives and left us with a new appreciation for the world.

### Humans: The Cooking Ape

The Leakey Foundation presents:

Humans have been called 'the cooking animal' because they are the only creatures on Earth that eat cooked food. All other animals eat their food raw. Now experts believe that it could be our culinary talent that made humans what they are today. Come listen to Harvard Professor Dr. Richard Wrangham discuss how human-ity may have begun with an ape learning how to cook!

**Saturday, September 22, 2007 at 1:00 PM**  
**The Field Museum, Chicago IL**

This is a FREE lecture event. For reservations call 312.665.7400.

I.S.B. Leakey Foundation  
 For Research Related to Man's Origin



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