

Today's the

Dishonest California tech

last day,
Katrín

Volume LXXXII

Pasadena, California; Friday, April 10, 1981

Number 24

Leakey Lecture Series

The First Family

The latest lecture in the Leakey lecture series featured Dr. Donald Johanson speaking on his recent discoveries of fossils of Early Man. Dr. Johanson's discoveries and the conclusions he has drawn from them have sparked the greatest controversy ever in the field of paleoanthropology (the study of the origins and evolution of Man as a species).

The controversy centers around Dr. Johanson's discovery of "Lucy" a fossilized skeleton of a female hominid found 40% intact and the remains of some 13 other individuals called "the First Family." Like many other important fossil discoveries, the "First Family" fossils were located in the East Africa Rift Area, at a site near Hadar, Ethiopia.

Dr. Johanson was able to date the "First Family" fossils as being three and a half million years old—the oldest hominid fossils ever found. The "First Family" fossils were important because the creatures were fully bipedal—their knee joints and pelvic bones were virtually identical to those of modern man and vastly different from quadrupedal apes. However all the specimens also possessed very large teeth well suited for a vegetarian diet and very small brain size. In this characteristic the "First Family" is remarkably ape-like.

Having established *A. afarensis* as the probable ancestor for *A. africanus* and *A. robustus*, Dr. Johanson began to study that possibility that *A. afarensis* was an ancestor of *Homo habilis*—the earliest known ancestor of modern man dating to a period some two and a half million years ago. *Homo habilis* possessed a large brain size—comparable to that of modern man. This was one feature that *A. afarensis* lacked.

However, Dr. Johanson found that in many other ways, *A. afarensis* was strikingly similar to modern man. In addition to being bipedal, his foot bone structure was identical to that of humans, in that the large toe was in line with the other toes, while in apes the big toe is separated. Also, the bone structure of the hands indicates the members of *A. afarensis* were all capable of the intricate finger manipulations, an ability not possessed by humans and not apes. Dr. Johanson compared his fossils to the finds made by Mary Leakey at Laetoli, including similar jawbones and footprints.

Dr. Johanson proposed a new theory about the human evolutionary tree, based on his findings. *A. afarensis* is the



Have you noticed the recent alterations on the Greasy's sign? Yes, you got it! Some patrons of the dining hall decided to make the name more befitting of its stature. "Chunder" is Australian slang for vomit.

"trunk" species, later evolving into *A. africanus* and *A. robustus*. Johanson also postulates that about three million years ago, a side branching occurred, and some forms of *A. afarensis* evolved into *Homo habilis* and then to *Homo erectus* and *Homo sapiens*.

Dr. Johanson's conclusions challenge old paleoanthropology theories in several ways; first, that man is descended from the australopithecines (in direct opposition to Louis Leakey's theories, and, second, that the species *Homo* is just a "side branch" of the major evolutionary stem of australopithecines.

Dr. Johanson notes that the australopithecines were the product of millions of years of evolution to produce a vegetarian species. This evolution started before *A. afarensis* and ends with *A. robustus*. The final form *A. robustus* had teeth and jaws that were perfectly developed for consuming a solely vegetarian diet. *A. robustus*, not the *Homo* species, was the logical result of evolution. The reason that the *Homo* species succeeded

while the main branch died, was that *Homo* was able to become omnivorous and thus could compete against animal species for food. *A. robustus*, a complete vegetarian, succumbed when competition arose for food sources.

The major flaw in Johanson's theory is the gap between *A. afarensis* and *Homo habilis*—what happened three million years ago to cause some of *A. afarensis* to branch off toward *Homo habilis*? No one has discovered any fossils from this period of a hominid species that is the intermediate between *A. afarensis* and *Homo habilis*. Until such a discovery is made, Dr. Johanson's theories will remain just that—interesting and thought provoking.

—H.N.I. Mayhem

Coleman Chamber

The 35th annual Coleman Chamber Auditions will be held April 24, 25, and 26 in Ramo Auditorium here at Caltech.

There are three audition categories, and all three competitions are open to the public without charge. Junior groups will audition on Friday, April 24 at 4:00 pm; intermediate ensembles will audition on Friday at 7:00 pm; and eighteen senior ensembles, representing major music institutions all over the United States, will begin auditioning at noon on Saturday, April 25.

Any chamber ensemble is eligible to apply for the Coleman Auditions. This year's competition will include string quartets, piano trios, brass quintets, and woodwind ensembles.

Six winners from the audition competitions will be presented in concert in Ramo Auditorium on Sunday, April 26 at 3:30 pm. Awards of \$5500 will be conferred. General admission and student tickets for the Sunday concert are now available at the Caltech Ticket Office. Phone them for ticket information, 356-4652.

the great ape

Three women searching for insights into man through the study of the Great Apes will meet for the first time in public debate in Beckman Auditorium on Saturday, May 2 in a two part panel discussion. Dr. Jane Goodall, who has been observing wild chimpanzees for the past 20 years, Dr. Dian Fossey, who has tracked the mountain gorilla for 13 years, and Dr. Biruté Galdikas, who has followed the elusive orangutan in North Borneo for nearly 10 years will debate "Man and Ape," moderated by Dr. Donald C. Johanson, discoverer of the "Lucy" skeleton and author of the newly published book, *Lucy and the Beginnings of Humankind*. The discussion will begin at 3:30 pm and will resume, following a dinner break, at 8:00 pm.

The informal panel discussion will consider the influence of environment on chimpanzee behavior, the use of tools by orangutans, and the presence of internal conflict and cannibalism among all three types of apes. The panel will also examine the possible implications of Great Ape studies for further understanding of the human career.

The late Dr. Louis Leakey, noted paleoanthropologist, had long dreamed of studying the chimpanzee, the gorilla, and the orangutan in depth and realized these plans when he launched the three scientists on their separate careers.

Fossey, an occupational therapist turned scientist, conducted her research in the 14,000 foot high Virunga Mountain Range of Rwanda in Central Africa. Her investigation involved the collaboration of other visiting botanists, zoologists, and biologists. Their broad purpose was to document gorilla behavior and the complex ecological factors such as climate, vegetation, food supply, and topography, which affect gorilla behavior. Fossey is currently a Visiting Professor at Cornell University.

Goodall was launched by Dr. Leakey in 1960 in an in-depth, long-term study of wild chimpanzees at the Gombe Stream Research Centre in Tanzania. Goodall has lectured extensively in the United States, has written scientific papers and articles and has published several books. The National Geographic Society featured her work at the Gombe Research station in a TV film documentary. ABC TV presented a series of documentary films, "Jane Goodall and the World of Animal Behavior." For several years, Goodall was a Visiting Professor in Psychology and Human Biology at Stanford University.

Galdikas, Director of the Orangutan Research Project in the remote tropical rainforest of Central Indonesian Borneo, has studied this Asiatic red ape in its natural habitat since 1971. Although scientists, in the past, have had difficulty studying orangs in the wild, Galdikas has developed more than 12,000 hours of direct observation. It is now possible, according to Galdikas, to review the social structure found among chimpanzees, gorillas, and orangutans and to attempt to understand the distinctive adaptations of each species, with special reference to the solitary nature of the orangutan in its semi-arboreal setting.

For ticket information concerning the two-part panel discussion, contact the Caltech Ticket Office at 356-4652.

Y Stuff

The Third World

By Robert Hill

Many of the nations of southeast Asia have won independence from their former colonial masters since the finish of the Second World War: Malaya, Singapore and Borneo from the British, Laos and Vietnam from the French, Indonesia from the Dutch, the Phillipines from the United States, and, more recently, New Guinea from Australia. These nations embarked upon independence with bright hopes of establishing constitutional government based upon elective mandate. Some have succeeded, many have found democratic aspirations stifled by largely military rule. Why? What forces facilitate this trend? What has been the role of United States military assistance in this development? What is the quality of this military leadership?

Albert Ravenholt will be addressing these issues in an Evening Spotlight Series presentation sponsored by The Caltech Y. (Winnett Lounge, 8 pm Thursday, April 23). Al has been a member of AUFS (American Universities Field Staff) since its inception in 1951. He has spent 40 years as a journalist based in a range of Asian countries, with China, India and the Phillipines being his principal bases. He has written for various newspapers, newsmagazines and compendia (including *Encyclopedia Britannica* and the *World Book Yearbook*), as well as being the author of *The Phillipines: A Young Republic On The Move*.

So, to find out what is happening in Southeast Asia today, come and hear Mr. Ravenholt's presentation, "The Role of the Military in Southeast Asia's New Nations."

Delbrück Service

The celebration of memory for Max Delbrück will be in Dabney Hall Lounge and Garden at 4 pm on Sunday, April 19. Everyone is welcome—especially students, staff, faculty, administrators and friends of Caltech and the Delbrucks.

The program has been organized in association with Manny Delbrück and all of the members of the Delbrück family. Short talks will be given by Professor David Smith of our Humanities Division, Dr. David Presti, a research fellow who recently took his degree with Delbrück, Dr. Gunther Stent of UC Berkeley, Dr. James Watson of Cold Spring Harbor, New York, and Professor Seymour Benzer of the Biology Division. A Bach cantata will be performed by friends. There will be refreshments afterwards in the Garden.

EDITORIAL

Cheer up—it could be worse

Over the past few weeks, a certain pathos has developed at the *Tech*. People of varying affiliations with the *Tech*, from ex-editors to writers, come in, bitch and whine about how their lives are being screwed up by women, and other self-indulgences. While they moan about their helplessness and lack of direction, they appear to get some sort of perverse pleasure in detailing their exploits, almost wanting to be admired for all their troubles. Nothing is wrong with spilling one's guts in a cathartic fashion, but too much of a good thing leads to trouble; in this situation, it leads to an inflated ego. Last week, we decided to run two articles exemplifying this reversed egotism.

We would now like to clear up a misunderstanding, most of the readers we've talked to have taken those pieces *seriously*. There is something wrong when the writer goes practically begging for pity and sympathy, which we call the "Kramer vs. Kramer" syndrome (as you may recall, back in 1980, when the picture by that name won several Oscars by using the tactics described above), abbreviated KVK.

KVK is a pathetic way of tugging the heartstrings (sounds of violins drift from the background). Case in point—"The Mind Shop". Written in a deceptively cheery tone, it is easy to sympathize with the so-called Agonist; he's just like any average Caltech male, repressed and frustrated. What would happen if his heartthrob did happen to fall at his feet in love? He probably could not handle it; he doesn't expect anything and almost wishes he will be hurt, so he may pack up the experience into his kitbag of troubles.. "But we can still be good friends, can't we?", so has many a great (and well-fantasized) relationship ended, and periods of contemplation, remorse, and lugubriousness ensue. The Agonist looks for the pain which he can use to make himself somehow feel worthless. What he wants to do is along the following lines:

Commit suicide by overdosing on barbituates, leave a long and poignant note, expressing all of the

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THE CALTECH Y..... Fly by

Today-Friday, April 17, 1981, is another NOON CONCERT day. When asked about this week's band, Le BoBo and cohorts released the following statement:

"This week's HI-FI
Ain't no sci-fi
So grab a mai tai
Or get a natural high
But give it a try
And drop on by
On the Quad, noon this Fri."

And remember, you heard it here first, in The Caltech Y Flyby.

Wednesday, April 22, 1981, there will be a CAREER COUNSELING SEMINAR at 7:30p.m. in The Y Lounge. Tonight's seminar topic will be "Careers in Chemistry and Chemical Engineering." Once again, at 7:30p.m. in The Y Lounge.

Thursday, April 23, 1981, is another fascinating EVENING SPOTLIGHT PROGRAM. Tonight's program—"Role of the Military in Southeast Asia's New Nations"—features as its guest Al Ravenholt, expert on Asian affairs and member of American Universities Field Staff. For more details, see the *Tech* article in this issue. The program starts at 8:00p.m. and will be held in Winnett Lounge. Don't miss this one. Digger Rob gives it his highest recommendation.

Friday, April 24, 1981; once again, it's NOON CONCERT day. For today's concert, Le BoBo has arranged for the CALTECH WIND ENSEMBLE, conducted by Bill Bing, to play for us. As always, at noon on the Quad, or inside Winnett in case of rain.

MISSIVES

Point/Counterpoint

Capital Punishment

Dwayne, you churlish lout:

Society today is overrun with social misfits like yourself. Those who commit particularly heinous acts, and are less competent (as if that were possible) at hiding their traces are arrested, and occasionally even convicted. What then? Why, they are sentenced to "life imprisonment," and allowed to languish in jail, receiving room and board at the taxpayer's expense. Considering the ghetto background he may have had, this treatment constitutes a net reward for his behavior. After a number of years, when he is paroled, it should be obvious to even a vulgarian such as yourself what his actions will be. What is the solution to this massive injustice? Capital punishment. Degenerate liberals like you decry capital punishment as "inhumane." Try talking to the relative of a victim of a rape/murder about humanity, you swine. The deterrent value of capital punishment is immaterial in a discussion of its merits (ha—stole your fire, didn't I?). Capital punishment is society's means of permanently ridding itself of a defect—akin to the surgical removal of a cancer. For survival of society as a whole, behavior counterproductive to society warrants termination of the source of the behavior. The obvious means of accomplishing this is the death of the offending member. Unfortunately, soft-minded individuals such as yourself insist upon incarcerating such people at public expense, and then

Bob, you reactionary hypocrite:

Just last week you spouted off about how immoral it is to "slaughter" unborn babies, and today you make an about face and support murder. Sometimes I think you're rowing with only bone oar in the water, you know what I mean?

Your kind wants to see the death penalty engraved in men's souls so that if a poor, uneducated Black or Mexican happens to step on your newly mowed lawn, you can end any misunderstanding in the gas chamber. You're not really interested in stopping serious crimes. Oh, sure, we've heard all that crap about the death penalty being a deterrent to crime, but most surveys on the subject show that the death penalty has little or no effect on the crime rate.

Oh, by the way, John Birch Jr., there is a Constitutional basis for outlawing the death penalty. You remember the Constitution, don't you, or did it conveniently slip your mind again? Capital punishment is cruel and unusual punishment. Oh, of course it's not cruel. Just watch someone fried in an electric chair or gasp for breath in a gas chamber—you probably like that kind of thing, you mental degenerate. Figures show that the death penalty is "unusual." In most cases where the death penalty is not mandatory, it is not invoked. Therefore, when it is invoked, it is unusual. And, by the way, when it is mandatory, many guilty people are found "not guilty" by a jury that doesn't have your desire to play God.

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All-you-can-eat dinner for 5.95!

Colonel Lee's Mongolian Bar-B-Q

You can make your selection from four kinds of meat and fish, nine fresh vegetables, and ten different Bar-B-Q sauces. The sliced meat and fresh vegetables are cooked on our special Mongolian grill in just one minute, right in front of your eyes. Come and try it once. Our luncheon menu ranges from \$2.50 to \$3.95, and dinner is \$5.95 for all you can eat.

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FRIDAY
NIGHT

ASCIT MOVIE

7:30
10:00

TONIGHT:



50¢ ASCIT members
\$1.00 All others

Baxter Lecture
Hall

NEXT
WEEK:
ALIEN

When's the Mudeo

Dear Fred Vachss, Junior Class President:

The sole responsibility of the Junior Class President is to organize and run the MUDEO, a contest between the freshman and sophomore classes which takes place in a pit filled with muddy water. For years going back into ancient Caltech history this annual event has taken place during the first term of each year. You chose to be different. Perhaps you felt that it would be warmer in the spring, and so you simply had an article appear in the *Tech* during the fall describing a hoax MUDEO which did not actually occur. This was amusing, and probably good enough for most of the freshmen and sophomores on campus.

But there are others here at Caltech who still want to participate in the MUDEO. By playing in real mud they can temporarily escape the quagmire of their academic work. You owe it to them to still organize this event this year. You got elected on a platform of doing the minimum amount of work possible, but you must not succumb to this

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The California Tech

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Abortion: A Right

To the Editors:

Dwayne David definitely mentioned something important last week. The issue isn't really abortion, but *the right to choose*.

Sexuality and pregnancy are both partners' responsibility. However, many people just aren't informed. Take Caltech for example. There are many people who haven't the faintest idea what goes on between a man and a woman that creates children, or how to prevent it. Many myths, such as the use of plastic wrap, or that virgins can't become pregnant or impregnate someone the first time—even here these exist! As a Health Advocate I was informed of an average of six unwanted pregnancies here each year.

There are ways of preventing pregnancy, but aside from abstinence or sterilization, it seems the more effective the method, the more side effects. Even with foam and condoms, one of the most widely available and least expensive methods, partners run the risk of being allergic to one or both things. Also some couples don't enjoy sex with this method. Diaphragms, too, can cause irritation or allergic reactions. Some women just can't use one because of their internal structure. The possible side effects of IUDs and The Pill would take up pages. Choosing a method requires thought and considerations of health and lifestyle. But there are no temporary birth control methods of 100% effectiveness.

So what if the worst happens and the woman involved does get pregnant? There are situations where an abortion may be the wisest thing to do. Should victims of rape be forced to bear a child that results from it? Teenagers, because they are still growing, have a very difficult time bringing to term, even if the girl desires to. Should the decision of something this risky be made for them? How about other women that have very risky pregnancies? Should they be forced into possible death? How about prenatal diagnosis of a seriously deformed or mentally handicapped child? Shouldn't the parents be able to decide whether or not to bring it into the world?

How about the simply unwanted child? Is it fair to bring

a child into the world who would not be really loved or cared for? Money isn't the issue, it's how vital the nurture and love in those crucial first four years are to a child's development through the rest of his life.

Adoption for some is a solution. It is true that there is a shortage of adoptable children. However, "adoptable" means the perfect bouncy babies of a couple's dream. Children born less than perfect are almost impossible to find homes for. Most adopting families will turn down a child with a permanent or even correctable defect. Also, after a child is over six months old he or she is really lucky to find a home. So the child is not guaranteed a loving home.

Abortion clinics are not the slaughterhouses people make them out to be. Generally, they are located in poorer sections of town, but this is where they are needed most—to educate. A woman suspecting she's pregnant who comes into one is always asked about what type of birth control she uses. If her answer is unsatisfactory she is given counselling on the methods available, use, risks, costs, etc. This is even before she sees the doctor to confirm or deny her suspicions. Many clinics start the patients on methods free of charge to get them to at least start contraception. Many clinics require follow-up visits and almost all do tests for V.D. routinely. The clinics as well as private physicians don't encourage abortion as a method of birth control. It's just that sometimes it takes a pregnancy to make a couple realize they didn't have the answers they thought they did.

If abortions were made illegal, would they really stop? I seriously doubt it. Abortions were around long before anyone thought of making them legal. Once they were made legal, the mortality rate for the mothers dropped considerably because better facilities became available.

Think for a moment. How would you feel if your wife, daughter, mother, sister or girlfriend died because she was unable to obtain a legal abortion? How about if she died in the aftermath of a backroom, illegal one?

—CJ Beegle

Abortion: A Wrong

To the Editors:

The two letters published in last week's *Tech* under the title "Mission: Abort?" seemed to have missed the major point of the abortion debate. That point is over when life begins and if it is morally and legally right to terminate that life.

To begin with, it is obvious that the human fetus is a living entity because the act of abortion would be unnecessary if it was not. As scientists, we know that for mammals, life begins at the moment of conception. If one believes that the willful termination of human life is an immoral activity tantamount to murder and that abortion is the termination of a human life, then one would conclude that abortion is morally wrong.

When the Supreme Court decided the legality of abortion in *Roe v. Wade* in 1973, they chose to ignore the question of when human life begins. Instead, they chose a standard of "viability" as to when the fetus is physically capable of living detached from the mother. The arbitrary value of 24 weeks (the beginning of the third trimester) was picked. There exists three major flaws with this standard. First, the value is dependent upon the ability of medical technology to sustain the lives of premature infants. Presently, the youngest child successfully taken out of the womb and survived was 18 weeks old. In the future this value should drop to zero. Secondly, if one believes that it is moral to terminate any human that is incapable of sustaining itself, why stop at 23 week old fetuses? Taking this philosophy to its logical conclusion, one could just as easily justify the termination of the lives of five year olds, quadriplegics, and the elderly. Lastly, if one believes that the taking of life—any life—is immoral, then the specific conditions of that life are inconsequential.

Dwayne seems to have missed the morality of this issue as he belabors the financial benefits of abortion and the right of self-determination. If one believes that the right to life is inalienable and supersedes all other rights, then the questions of economics and freedom of choice become insignificant.

The final question to be addressed is whether it is right to impose one's morality on another. Our criminal code is based on the Judeo-Christian code that holds certain acts to be immoral and should be outlawed such as murder, rape, incest, and theft. Abortion is no different. Some argue that it is wrong to prevent a woman from acting out her desire to have an abortion because that could compell that woman to accept another's morality. I would contend that the act of abortion compells the fetus to accept the manifestation of the mother's morality which is both final and indefensible on the part of the child.

—Wally Walter



placing an enlarged period to its right. He stared at it for several moments and then as an afterthought, completed his effort with a terminal parenthesis. Manfred smiled a little self-congratulatory smile to himself as he recalled how he had determined to put one over on his psyche and trick himself into actually doing his work. It's so simple, he thought, You just have to tell yourself, with no games or little tricks, that you *are* interested in your work. Just decide that you want to do it, and then do it. He had grown tired of fooling himself with half promises; no, today was going to be different.

Manfred slowly reached for his problem set that had been residing on top of one of his cumbersome 24 watt speakers for the past week and a half, but he found that the virgin sheet of paper had adhered to his palm. He paused momentarily to shake his hand free and then to watch the paper flutter down to the floor and slip quietly under his unmade bed. What he really needed to do, he decided, was to figure out some way to mount his speakers on the wall. He was tired of tripping over them every time he walked into the tiny cubicle that some pre-WWII mentality designed to call a room. Manfred carefully surveyed the walls of his room

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Point/Counterpoint Lang vs. David

FROM TWO

releasing them to wreak further havoc under the guise of "parole." Well, I can see why you might wish to be surrounded by your peers, Dwayne, but in succumbing to these selfish desires of yours you inflict those around you with a loathsome burden. We can only hope that someday some convicted and paroled mass murderer will turn his attentions toward you and your ilk and rid the world of one more cancer on society.

—R. D. Lang

FROM TWO

That's right, you little sleaze ball, "an eye for an eye" is an old saying, but so is "if man were meant to fly, he'd have wings." Wake up, Rip Van Winkle, it's the 20th century.

—Dwayne David

Student Shop Meeting

There will be a Student Shop meeting Saturday April 18 at 1:30 pm. All old and prospective new members should attend.

Editorial Cheer

from two

frustrations and desires he had, including something like, "It wasn't so-and-so's fault; it was all mine," when, of course, he means the converse; in this way, he can exact a sweet revenge.

On a different vein, but still KVK, is "The Diary". This article took the tack of trying to show the feminine view of "The Mind Shop". However, rarely does any sentient female feel that way; often what is the case when "the creep" makes amorous overtures to her, is that she will just ignore him. None of that sentimental crap; indifference works wonders in turning off anyone. It was not surprising that the author decided to publish the article anonymously; pushing off one's problems on others in the hopes of gaining someone else's—especially the would-be lover's—sympathy and perhaps, affection. This is egotism at its height; wallowing in one's self pity, trying to appear as the *most* persecuted, "no one loves me, so I'll kill myself" mentality, which is assured to win at least some "I don't want to hurt you, so I won't tell you the truth" points.

So that's what the point of it all was. KVK works fine in the movies, but that's where it should be left, in lands of ideal love and mutual trust, certainly not here.

—Tracy T. Furutani

Mudeo Awol

FROM TWO

for the equipment, like a rope, sacks and tires.

3. Arrange with Physical Plant to get a hole dug.

4. Talk to Public Relations to arrange publicity (TV).

5. Publicize the event to students.

6. Show up and run the MUDEO.

There, I am sure you can handle the job. Many freshmen and sophomores are waiting to hear from you.

Sincerely,

—Eric Korevaar

Last Year's Junior Class President

weakness and end a tradition that has lasted for decades.

I am struck by the thought that with a name like yours, you might have to be told everything to do, like a computer. This MUDEO is easy to organize, and last year it didn't even cost any money (although that is unusual). Try following these steps.

1. Talk to Warren Emery at the Gym and arrange a Sunday for the MUDEO. He will give you a copy of the rules.

2. Talk to Bob Townsend (Mr. Emery can tell you where to find him) about arranging

body shop

You are what you eat—your energy level, how good you feel and how well you perform your daily activities will depend on how you're doing at meeting your daily nutrient needs—how balanced your diet is.

A balanced diet is one which contains foods which will supply a variety of essential nutrients—protein, fat, carbohydrate, vitamins, minerals and water. You need *all* of these nutrients daily, but in differing quantities depending on your age.

To help you plan a balanced diet, the Basic Four Food Groups have been developed. Each group contains foods having a similar proportion of nutrients. The groups are:

Meat Group—includes meat, fish, poultry, eggs, nuts, dried peas and beans. Major nutrients: protein, iron, minerals, and B vitamins.

Dairy Group—includes milk, cheese, yogurt and ice cream. Major nutrients: Vitamins A and D, calcium, riboflavin and protein.

Breads and Cereals Group—includes enriched or whole grain breads, cereals,

baked goods, macaroni, spaghetti, noodles and rice. Major nutrients: Iron, thiamin, niacin, and riboflavin.

Fruits and Vegetables Group

—includes fruits and vegetables. Be sure to eat one daily that provides Vitamin C (citrus, tomato, etc.) and one that provides Vitamin A (dark green or yellow vegetable). Major nutrients: Vitamins A and C, some B vitamins and water.

Most of you fall either into the adolescent or adult age groups. If you are still growing you are an adolescent and need at least the following number of servings from the Basic Four:

2 servings from the Meat Group;

4 servings from the Dairy Group;

4 servings from the Bread Group;

4 servings from the Fruits and Vegetables Group.

If you are an adult, your main concern should be to keep up your nutrient stores. You can do with fewer total calories now and should, in

fact, be careful not to overdo your eating which leads to overweight and obesity (that's malnutrition too). Following are your minimum guidelines from the basic four:

2 servings from the Meat Group;

2 servings from the Dairy Group;

4 servings from the Bread Group;

4 servings from the Fruits and Vegetables Group.

If at mealtime, the selection in the dining room doesn't immediately appeal to you, be creative! Choose the nutritional food items you do like, and design your own culinary delight! You may surprise yourself, and really enjoy eating your creation. And, when you are working into the wee hours and want to snack on chips or a candy bar, instead of that bag of expensive empty calories, try an apple, banana, carrot, peanut butter sandwich and other food stuff which can be kept in your room. Not only will they taste good, but they'll help supply you with the wherewithal to keep the midnight oil burning a little longer.

Now—open your notebooks, take out a clean sheet of paper—we're going to have a pop-quiz....

—Barbara Montgomery, R.N.
Health Center 1-8

A Very Hardy Movie

Tess

was later featured in this scene to such an extant that a blazing fire, which never materialized, seemed inevitable.

The film is frustrating in that it offers no insight into Tess's motivation. Why does she completely reject one of the men who have wronged her but cling to another? Why does she allow herself to be victimized so often and why does she opt for misery when offered alternatives? Was she a victim of the men around her, her times, or herself? Although the three hours spent watching the film were well-spent, I wish I had an explanation for what I had just seen.

—Susan Hunts
[ed. note: read the book]



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has an inexhaustible voice,
but because he has a soul, a spirit
capable of compassion and sacrifice and endurance.

Words: William Faulkner
Photo: Ansel Adams

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Photo by K. Gant

WOMEN'S SOCCER WINS ANYWAY

The Caltech Women's soccer team performed masterfully in winning its first game Sunday, April 5. While the entire team rose to the occasion in beating the Goalseekers, especially effective were the defensemen, who did not allow any shots on goal. Caltech goalie Ann Rosenthal had her only anxious moment of the day when sweeper Wendy Rasmussen kicked the ball past Ann, toward the goal. Having caught up with the ball, however, Ann was free to spend the rest of the game concentrating on her upcoming concert debut (later that night).

Offensively, the Orange Tide had a difficult day. The goalie for the Goalseekers, after giving up 2 goals in the first half, kept the Caltech girls at bay the rest of the day. The 2 goals were scored by Alison Blake. Assisting on the goals with beautiful passes were Sue Hunts and Sharron Sarchet.

Coaches Bryan Dunkeld, David Marvit, and John

McNally credit the win to a strong defense, particularly Thelma Nunez and Wendy Rasmussen at sweeper, and Nancy Kreibel, Connie Senior, Norma Ofsthun, Liz Newman and Lorna Anderson at fullback. Helping out at midfield were halfbacks Julie Kornfield and Sue Fuhs.

Beaverettes Beat Bonkers

The Caltech Women's soccer team continued its winning ways on Sunday, April 12, with a 1-0 win over The Bonkers. This was the third consecutive win for Caltech (counting a forfeit by Occidental three weeks ago), and lowered the average goals/game against Caltech to 2.7.

The game started off shakily for the Techettes. Goalie Ann Rosenthal, playing with a pulled muscle, came out of the net to make several spectacular saves, but the Bonkers kept the pressure on. Trying to find a more effective combination of

**CONTINUED
ON PAGE 7**

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Stags Cream Beavers

By P. G. Hepzibah

sweep which saw a total of seven home runs.

An awesome display of shabby fielding made the going very tough for pitcher Doug MacKenzie and the rest of the Beaver squad. The inability to catch or throw the ball resulted in 12 unearned runs in the first game alone. Doug MacKenzie and Armand Capote each had a triple to lead the Beaver bats. Bill Marshal, Steve Havstad, and Brad Evans also had hits for Tech.

In the second game, pitcher Alphonse Sterling fell victim to the powerful Claremont bats, which managed 17 hits. The game was not a total loss for the Beavers. Bobby Buck, who leads the conference in triples, hit his first home run of the year. Armand Capote and Steve Havstad also had hits for Caltech.

In Tuesday's game, the first Claremont batter hit a home run and the pitcher for the Stags finished with a no-hitter. It was definitely an off day for the Beavers. Tech managed to load the bases in the last inning when the CMC pitcher gave up three walks. Steve Havstad came up and hit what many people felt would be a grand slam. But the ball didn't travel far enough and it was the last out in a long afternoon of baseball for Caltech. The Beavers hope to relieve their frustrations this weekend when they go against Pacific Coast Bible College.

Fast Track Marks

By Track Jones

Last Saturday, the Caltech track team competed in the Riverside Invitational, demonstrating overall improvement.

In the 400 relay, the team of Morrisset, Collins, Bloom and Grant took fifth in 45.8. Morrisset also performed well in the sprints, taking fifth in the 100 in 11.3 and a third in the 200 in 23.6. Bloom also took a fifth in the 400 intermediate hurdles with a time of 1:00.3.

Korevaar and Holmes teamed up in the 800, setting two personal records. Korevaar took first in the event with 2:01, and Holmes was right behind him in 2:01.5. Clauzing took a third in the 5000 in 16:06.4, his best mark of the season. The mile relay team of Morrisset, Korevaar, Field and Collins also set a personal record, taking fifth in 3:37.3.

The team has been improving steadily, and they expect a very successful season. Don't forget, we are host to the Caltech Invitational tomorrow. See you there!

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mind shop

FROM THREE

check out the many possibilities that were flowing in his mind. Finally he curled his lower lip up and exhaled a quick jet of breath to remove the lick of slightly oily hair that was obscuring his vision.

He became aware of hundreds of pinpoints of tightness across his head and used this to determine that he was much too exhausted to solve this problem. Besides, he thought, he needed to get that homework done. If he was going to inaugurate his new program of efficient studying, he had better prove it to himself fast. This was not going to be like

all the other times, this was now or nothing. Just build the issue up in your mind, he reminded himself, make the stakes high and you can't let yourself down. Simple.

This time he snatched the homework set from his speaker as if to shoo away all the fugitive thoughts that might delay him further. With both hands he squarely placed the set down on his desk and hunched over it with the intensity of a medieval cleric. He read the first problem through twice before he realized that he had done none of the reading for this class, and rather than admit to himself that he needed to study, he automatically began sifting around under his bed for the sheet of paper he had dropped. This would have continued for several minutes had a jab from some hidden piece of metal not caused him to forcibly withdraw his arm.

He quickly smeared away the small droplet of blood that had gathered, leaving only an

THE CALIFORNIA TECH

inperceptible streak of graphite as testimony to his injury. Almost as quickly, Manfred felt a good portion of his treasured wave of enthusiasm evaporate. He robotically reached for his textbook, and allowed himself to slump back into his chair in one continuous motion. Before he opened his book, he became acutely aware of the springs in his seat cushion, and the full weight of the many hours he had been awake pressed down upon his back in slow, deliberate, sweeping throbs. His back needed a little break if he was going to sit through lectures later that day, he decided. He flung himself toward his bed but managed to muster enough dexterity to execute the well-practiced act of propping his pillows up. He less-than-gracefully fell onto his bed and pivoted the spine of his textbook on his belt buckle. He dutifully located the section of the book he needed to read, but not before he had

deposited slight grease spots on some of the later pages that he would probably never set eyes on. Without reading a word, Manfred's eyes took in the whole of the two pages before him, and then he reminded himself still once again how amazed he was that he was actually comprehending this bizarre language of symbols. He really liked to study this stuff, he told himself. By this time, however, he wasn't nearly as convincing. His mental voice had that tinny quality that comes from the constant repetition of a rubric for a religious ceremony whose spiritual meaning has since decayed into dust.

The characters in the book began to fade in and out of a field of grey in a sort of syncopated rhythm with the dull throbbing of Manfred's back muscles, and he could clearly feel himself slipping away into a corpse-like sleep. Well, at least he had gotten a good start on his homework, he told

himself as he carefully laid his text book down beside his bed. Yes, he was really feeling in the swing of things.

He rolled over, barely aware that the clothes he had on were already emitting his characteristic odor; he thought it was his sheets. Manfred fell into sleep immediately and did not wake up until late that evening.

-Stuart Goodnick

Women's Soccer

FROM SIX

players, the coaches sent halfback Sue Vandewoude into the game. Sue calmed down the frantic Beavers, and the offense took charge. In the best offensive attack of the first half, captain Julie Kornfield made an unbelievable shot on goal, only to see it stopped by a fantastic effort put forth by the Bonkers' goalie. Thus, the half ended in a scoreless tie.

In the second half, the Caltech women were much more aggressive, and kept the ball in the Bonkers' end of the field most of the time. Early in the half, Julie Kornfield avenged her stolen score, and put the only goal of the game on the boards. Though the Tech offense played well for the rest of the game, they couldn't manage to get the ball into the goal again, and the game ended 1-0.

In discussing the team, coach Bryan Dunkeld described the defense as "the best in the league." While the offense is getting to be an effective unit as well, he feels that it must become more aggressive. The two consecutive shutouts have left the team feeling very up for their next game, which starts the second half of the season. Looking toward the rest of the season, goalie Ann Rosenthal expressed confidence. With the defense gelled, she explained that "The days of 6-3 losses are over." And the most recent win reinforced her expectations. In the Bonkers game, the team "didn't fall apart, though we didn't start out playing very well," beamed Ann. That seems to signal that the second-year team has finally come of age, and should be watched the rest of this year.

Chem and ChE Seminar

Have you wondered what all those chemistry and chemical engineering courses are leading to? Do you wish to know just how much money you can make (as all truly greedy ChE's do!) You can find answers to these and other enlightening questions at a career counseling seminar next Wednesday, April 22, sponsored by The Caltech Y and the Gnome Club. Entitled "Careers in Chemistry and Chemical Engineering", it will feature David K. Beaven, B.S.'38, director of process operations at Ralph Parsons Co., and Dr. Fred Shair, professor of chemical engineering. These seminars have proved to be extremely valuable in the past and would be of definite benefit to people in either of these options. Plan to attend at 7:30 in the Y Lounge.

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