C.C. Takes Fourth in SCIAC Finals
Bourret Ignores Heat, Dust Sets New School Record

by ThorFeat
In a close SCIAC finals meet last Saturday, the Caltech cross-country team took fourth place in the meet and third in the overall conference standing. The score was Occidental 31, Pomona 48, Claremont 95, Caltech 99, Whittier 123, La Verne 176, and Redlands 181. Jerry Harriss of Pomona won the meet, setting the Caltech's home course record of 24:19 for the 4.56 miles. Senior Bob Bourret paced Caltech, setting the school record for the home course at 26:13, and finishing in 9th place.

The day was very hot, and the course was very loose, hilly, and dusty, so many runners suffered and ran slower than usual. Junior Bill Gould, who has run very consistently all season, proved himself immune to the adverse conditions, finishing 16th in 27:12. Sophomore Erik McElhinney, who placed fourth in the NAIA District III steeplechase last fall, ran a strong race and finished fifth.

The team finished the season tomorrow when they race at the NAIA District Cross Country Championships at La Mirada Park. The team is favored for first and second, but second is a real challenge because of the strong field, including Caltech's Glenn George, 18th in 27:12, Rich Holmes, 26th in 28:17 and Eric Kovevos, 30th in 28:46, and Brian McKinley, 37th in 30:26 and Randy Field, 39th in 31:35, who did not score for both teams.

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More Names

To the Editor:
The kind words in Ray Beauregard’s comprehensive Inauguration coverage last week about the Office of Public Events were most appreciated by our staff. I thought you might like to know the names of some of our people involved in presenting the Inauguration activities.

Our technical staff, headed by Tom Lehman, was composed of Andy Allum, Gordon Cordell, Don Delson, Bill Hewlett, Charles Scaglione and Dave Spellman. Our self-campus sound consultants were Hollywood Sound Systems, with Ken Daniel and Jack Haffert working on the jazz concert and the Inauguration itself.

Our crowd control staff was made up of the following Caltech students: Clifford J. Beal, Jan N. Bjornfalk, John F. Fill, Christopher Finch, Arli Fuad, Gregory G. Galvin, John Graves, Ted D. Hessdorfer, Paul de la Houssay, Jill T. Ibers, David S. Kammer, Bruce D. Langill, C. Ledebur, Terry J. Ligocki, Pamela Logan, Bruce D. Martin, Kevin B. Marcus, Lorna N. McDonald, N. C. Nye, Sethu Panipatnan, Eric Saund, David N. Shenton, Dustin T. Seagrave and Dave Spellman. Our student assistant, Ted D. Hesselroth, was composed of

Tom Lehman, was also fortunate to have musicians such as Mike Garson Trio. Jazz music. At noon on the Quad. Bring a lunch.

The CALIFORNIA TECH Friday, November 10, 1978

The Flunking #

To the Editor:
I would like to correct an error which crept into the article in the 13 October issue. The correct figures are that 90% of our incoming freshmen get an A or above in their first year. At the heat of our discussion between Rock Howard and myself, the percentages became inverted.

Jim Mayer

The New York Times

Guarneri Great

Ever gotten a perfect score on a test? Watched a Formula 1 auto race on television? Or are you a real connoisseur of Beethoven’s last group of quartets, the second movement of this quartet is highly complex and the Guarneri Quartet achieved this.

In their performance at the Coleman Chamber Music Series, the quartet is on the faculty of the Curtis Institute of Music in Philadelphia, delivered faultless. Beethoven. They played two Quartets, the second “Razumovsky” (“E” minor, opus 59, number 2) and the B-flat opus 130.

In the first piece, the Razumovsky, allowed us to see the group’s balance. It was well organized and different from the other three. After the intermission, the B-flat was played. It was well written in Beethoven’s last group of quartets in the 1820’s. The fifth movement of this quartet is excellent; very smooth, very beautiful. The group was well deserved to be played.

The Grove was a perfect performance. It has the final movement of the opus 130 quartet ended the program. Beethoven replaced it with strong musicians of his time, time complained of its difficulty. - We are fortunate to have been. The New York Times has said, “A large group, as the Guarneri Quartet was on the world’s stage” They are correct once again.

-J. Copeland

Random Numbers

Well, all I have to say is that I better not hear any complaints about one. It’s typed part of. For lack of time and much else to write about, this week you will be treated to the title of how Patasenda’s finest caught on fire at the bonfire Saturday night.

When the fire was lit, one of the fuel cans was dropped and it caught on fire. This was, needless to say, a hazard. In the hours before the fire department arrived, both myself and someone else were caught on fire. The fire department arrived, the extinguishing of the can was left to them. One of the firemen decided to kick the can, half full of burning fuel, down the street where the rest of the fire had been and where there was a fireman with a hose.

Unfortunately, there was a policeman in those days. His pants were covered with burning fuel and after performing a short dance routine, he was hosed down by the firemen. Perhaps this is why the police were so nasty to us. If you haven’t heard the story, just ask anyone who attended.

Recommended on this issue are heated in each direction and I intend to live past Christmas, if at all possible. However, I will say this, I understand that there was someone else who was spoiled as poorly as I am in the world. Perhaps you think that this is a little short. Well, you’re right.

There are no special exceptions for this. The first and foremost is that Interhouse is coming up and I am one of the work chairmen. Another is that I’m going to have to type that 17 page article myself. I understand that the typtop threatened to quit. A, anyway, there are enough F SERVICE cartoons to keep me busy for a while. Hey, Milner are OVER!!!!!! If we can avoid thinking about finals, we have made it. Also, in case you don’t have them back yet, like my dental tools back, they’re of course, will be used for a bonfire. At this event, they can be returned leaving them in the M section of the bookshop. For a quick look, I’ll see you tonight at a bonfire.

Dannan G. Makos

The CALIFORNIA TECH

Volume LXXX Number II

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Science and Society

Man's Favorite Pastime: Sex

This issue begins a series that attempts to cover a wide (but hopefully not too rambling) area of scientific and moral controversy. It starts with a discussion of that recent 7-day wonder, the "test-tube baby," proceeds to an analysis of genetic engineering and investigates the general question of how society is to form policy regarding new avenues of research. Finally a specific proposal for the creation of a scientific court-of-law will be given, along with some insights into the present system of judging conflicts that involve both technology and morality.

The births in Britain and India this past summer of two test-tube babies have caught the public imagination as few events ever have. In doing so they have focused attention on the larger issue of biological advances and, indirectly, of genetic engineering.

It is, of course, possible that these events were fabulously reported, but for academic interest it will be assumed that they were, indeed, genuine. A "test-tube baby" in this case certainly means a fetus conceived outside the mother's body and medically implanted into the womb. Researchers are required to obtain successful fertilization under laboratory conditions and then provide for normal in vitro growth of the embryo.

Immediately after the scientific announcement was made, theologians, philosophers and moralists raised interesting questions. How did conception outside the body affect the soul of the developing child? Would this technique cause defects and deformations in the fetus? Could this technique be used for "the wrong" purposes?

It is perhaps easiest to answer the third question first. In the fast two known cases this technique was used for a very legitimate medical reason: to provide women with blocked fallopian tubes the chance to have children. There was little reason to expect any other major purposes to arise. As to the second question, the mere presence of two healthy babies (although in no way statistically significant) suggests that this technique can be used safely. The religious question, of course, is the most difficult to answer, and must be debated by the theologians. My personal opinion is that if the soul enters upon conception, then in vitro conception will not prove a barrier to God.

The smug scientist might sit back and smile to himself at this point; but wait, the philosophers are not so easily defeated. What about the future, they ask. Might not this take away from the beauty and "humanity" of natural conception? Also, suppose that women unable to bear their own children have their eggs fertilized and implanted in another woman's womb. Who "owns" the baby, what rights do the surrogate mother have to abort the fetus, how will lineage and inheritances be determined?

The scientist, more sober now, sees the value of these questions. It seems unlikely that the first will ever cause problems; sex is not likely to diminish as man's favorite pastime, and only a tiny fraction of all births is ever likely to be initiated this way. Sex is much easier and cheaper. The second problem is tougher. There simply doesn't exist any real judicial precedent, for the problem has never been dealt with before. In all likelihood this controversy will rage for years as women begin to take advantage of these techniques. What laws should be passed? It will take a major combined effort by religious leaders, doctors, lawyers and philosophers.

It will take a scientific Court of Law. The detailed analysis of this term must wait for the next essay, but its general outline can be given here. It involves the modification of our present legal and judicial system to include a sub-branch containing the above-mentioned scientists, philosophers, lawyers and theologians. It involves the analysis of present issues and possible future controversies involving scientific advances; this analysis would be started before the first major legal skirmishes are brought to the court system. It would have a strong advisory input to the legislature. It would be a radical departure towards a radical future.

—Pat Frantz

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THE CALIFORNIA TECH

Page Three

"We Have Ignition?..."

The CIT Deep Space Team will be clandestinely launching various high-technology rocket-propelled research and entertainment vehicles on Sunday, Nov. 12 (from an, as yet, undisclosed desert complex. Those without security clearance may contact Ralph Weeks in 115 Lloyd for further information. Reminder: free flight accessories for DST members.

20% Discount on Caltech Card
**The Wild Geese**

The Wild Geese is an action-packed African mercenary adventure starring Richard Burton, Roar Uthaug, Richard Harris, and Stewart Granger. The present review gives a short history of mercenaries and states that this film "is the first accurate portrayal of modern mercenary soldiers." The program also contains quotes from two articles in the New York Times. From these articles I learned that there is a "Wild Geese Club" whose members are mostly veterans of the survivors of the mercenary units that fought in the Congo under Col. Michael (Madd Mike) Hoare. These men meet regularly in Johannesburg to reminisce about their combat adventures. For Col. Hoare these adventures are not over. He claims that he is capable of raising a mercenary army and taking over any country in Africa, except South Africa and Rhodesia, on a month's notice. He is still in business although he laments the present refusal of the U.S. and British governments to supply arms to the mercenaries. Hoare's latest assignment was to provide extras for The Wild Geese. Hoare believes that the mercenaries of today are more politically motivated than men were in the 30's. Currently there are about 400 American mercenaries, calling themselves "The Eagles," who are fighting in Rhodesia against the Marxist guerrillas led by Robert Mugabe and Joshua Nkomo. These men feel that they are fighting an extension of the Vietnam War against Communism. The article, written by Robin Moore, who has worked for the Washington Post in Rhodesia, notes that two of the experienced American mercenaries in Rhodesia is now studying for his PhD in political science and the other is running a restaurant in Key West, Florida. See Wild: Page 9, Col. J.

---

**Magnificent Mercenaries**

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LUMPIA, Indonesian Egg Roll ........ ONLY $1.75

Delicious and filling.
Photos by
ed.
Al Kellner
Alan Loh
Yin Shih
Dave Wheeler
Merf was here
I was surprised at the remarkably favorable attitude towards mercenaries that was projected in the film. The worst that was said of these men was that they are "the last remnants of the romantics," which is hardly a derogatory statement. So, I cast doubt on the notion that these mercenaries are truly heroes in the cause of freedom and justice.

Richard Harris plays a character who is often described as a "rebellious millitant." He is capable of planning a "surprise attack" and is willing to take calculated risks. His character is often portrayed as a "rogue soldier," someone who fights against overwhelming odds if the goal and the price are right. Burton demands and gets what he wants from his employers. His men certainly seem to get a kick out of their missions. Harris, on the other hand, finds the whole concept of war and violence to be a tedious one.

The movie opens Friday, November 10, 1978. It is worth seeing for its historical accuracy and for its portrayal of the lives of soldiers.
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Quarks & Garbage Can Physics

by Karen Pickens

"Quarks: Science Fact or Science Fiction?" was the topic presented by Dr. H. David Politzer at a recent "Update." "Update" is a Caltech Y program of informal discussions held Wednesdays at noon in Classroom 1 of Winnett Student Center.

Dr. Politzer discussed the search for quarks and the qualities they should have if they are found. He claimed, "We'd know one if we'd seen one," but admitted, "we haven't seen one." Quarks are thought to be the building stones of atomic matter, that is, the particles that make up protons and neutrons. To find them, physicists tried colliding two protons together. Unfortunately, they just bounced off each other. They tried colliding them harder, and then they tried colliding electrons with protons.

After the electrons were collided with the protons, they were studied in detail. The paths of the electrons gave clues as to what was happening to the protons. This method of inquiry provides the physicist with "garbage can physics. You throw a garbage can at a garbage can and look at what happens—you get garbage all over." Although quarks have not yet been found yet, scientists have some idea as to what they are like. They have names, or "flavors" such as "up," "down," "strange," "charm," "top," and "beauty." Their characteristics include spin, electric, weak, and strong charges, and "colors." The rules for these can be listed in tabular form.

The existence of quarks has not yet been proved, and may not ever be. However, Dr. Politzer maintains that any new theory will have to account for the discussion of quarks in the table of characteristics of quarks.

Outside In

by Christopher Justen

The Watson Lecture Series continued Wednesday with "From the Outside In" by George A. Seilstad, PhD, Research Associate in Radio Astronomy at Caltech.

Seilstad's talk attempted to place the complex problems of earth in a cosmic perspective. In an imaginary journey away from Earth, Seilstad noted that the problem which cannot be solved on the global level loses significance as the earth's awesome beauty becomes apparent. First local boundary disputes are hidden by a hundred mile perspective, and finally, by the moon's orbit, geopolitical boundaries disappear, and the earth seems fragile, delicate, and lonely.

At the center of the universe appears, the tremendous size of the universe, and consequently, the "awelessness" of earth becomes apparent. Seilstad hinted at the origin of the universe by describing the evidence for the big-bang theory—the plot of energy density of Radiation vs. Frequency exactly fits the model for a perfectly radiating thermal body. Then Dickerson, oops, er, Seilstad explained the synthesis of the elements by nuclear fusion, and the subsequent development of planets, galaxies, and globules (the early stage of star formation). The possibility that life could have developed on other planets was reinforced by the existence of organic molecules in space dust. Seilstad referred to an experiment in which basic organic molecules were caused to form amino acids—the basis of life—by the addition of energy. Seilstad believes that all life came from nonlife, and in fact, "life is a continuum that is traceable to the beginning, to the Big Bang itself."

Seilstad was thus suggesting that the earth is part of a greater group of planets containing life. Man's differences are quite important, however. Man can communicate across generations, and consequently, knowledge is power, as man's activities point towards an exciting career opportunity.

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THE CALIFORNIA TECH

Page Eleven
Author, Author! Hillel Halkin, author of the recently published book Letters to an American Jewish Friend, A Zionist Polemic, will speak next Wednesday night, November 16, at 8 pm in Winnett Lounge.

Halkin will discuss what he sees as the necessity for all Diaspora Jews to go to Israel. A recent emigrant to Israel (1970), Halkin feels that Israel is the only place where a Jewish life is viable. He feels that Zionism is central to Judaism, and that any Jew who does not choose to live in Israel is forced to remain on the periphery of Judaism.

Letters to an American Jewish Friend is a series of letters to an imaginary Jew, a friend of Halkin's, who, unlike Halkin, is satisfied with his life as an American Jew. The letters, all from Halkin to the friend, discuss the entire nature of Judaism, but centering on the Diaspora versus Israel.

Hillel Halkin was born in New York City in 1939. In 1970, he emigrated to Zichron Ya'akov, and now works as a translator. His talk is sponsored by the Caltech Hillel.

Bikers Unite! The Caltech Cycling Club will have an organizational meeting next Wednesday night, November 16, at 8 pm in Winnett Lounge.

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