Moore Laboratory opened with great expectations

by Maria Huang

A generous gift of $16.8 million from Gordon and Betty Moore has finally given birth to a new 90,000-square-foot laboratory that will enable the Caltech faculty in the Division of Engineering and Applied Science to accelerate their developing communication and computational systems of the future. With its porticoes and red tile roof, the Moore Laboratory of Engineering is true to the Mediterranean style of Caltech’s traditional architecture.

The Moore Building is finely equipped with 110 high-powered Pentium personal computers, courtesy of the Intel Corporation, allowing faculty and students to conduct applications ranging from VLSI circuit design, simulations, word processing, and classroom work. Featuring the first fiber-optic computer network on Caltech campus, the Moore Lab computers will enhance faster communication of information. In addition to the advanced research facilities for communications, power electronics, signal processing and microwave electronics, the Moore Lab contains lecture halls and teaching laboratories. In fact, a few of the teaching laboratories are devoted to motivated undergraduates in basic Applied Physics classes and Digital Electronics courses.

A Microdepartment store, the EE stockroom carries over 1,000 items, varying from integrated circuits, wires, electronics parts to stationary, drinks and candies. Located in the quiet sub-basement of Moore Lab, the EE Stockroom also comes with a mini-library, housing numerous data books and electronics catalogues from various companies. “Having a place for the students to sit and go check out IC information is definitely a bonus,” grins Lyn Hein, the stockroom manager. While “one is not a real EE unless he’s got parts in his hands,” Jenkins, the Vice President of the Intel Corporation, strongly encouraged

The frosh are on pass/fail... The frosh are on shadow grades this term. Being a frosh this concerns me. One of the reasons I choose Caltech over other schools was the fact that frosh year was all pass/fail. Supposedly this makes the transition of Tech easier to handle. Arriving here this fall I found out that third term would be on grades. No big deal, I thought, that’s months away. Plenty of time to acclimate myself to the rigor (‘regularity’) of Tech. Now these shadow grades creep creeping out of the woodwork. This trend is disturbing because it’s directly back to the bad old days when frosh were graded all year. Courses which have always been pass/fail (Physics 1b, Chemistry 1b, etc.) now need to be reworked. Grading structures are to be created. Percentage bands and bell curves to send poor frosh heads ringing. Who knows how this will affect the class of 1996? I am sure the administration hopes that grades will help to motivate the frosh who are now blowing off various classes. However, will the benefit from this exceed the damage done to people who push themselves too far for a good grade? While only time will tell, I fear that the latter will dominate. There are many frosh so recently removed from the top of their respective high schools. Frosh year is a time of transition. A time to explore new ideas, meet new people, and live without the hand of parents (most for the first time). With this comes a certain amount of recklessness and carelessness. Having the frosh on pass/fail eases the transition by giving them more leeway around our mistakes.

Whether conscious or unconscious grading the frosh puts more stress on everybody. One of the last sanctuaries of sanity is being removed from us. No longer will the mantra of “Don’t worry Frosh, you’re on pass/fail” comfort the distressed frosh.

Spirit of Dr. King to be revived Monday

Y celebrations to memorialize slain civil rights leader

by Maria Huang

Looking for a little historical and cultural tour? A series of events you might want to consider is the Dr. Martin Luther King Birthday Commemoration. Following the performance of African American singing group Alkebulan Boys Choir, the festival of events will continue with a remembrance of Dr. King’s contributions, highlighting his life and civil rights struggles.

From the Harlem riots of 1964 to the Persian Gulf War, today’s wars against immigrants and families on welfare, Gay & Lesbian Americans and all victims of hate crimes, Jordan’s work transcends the traditional bounds of self and society, expressing the unity of events you might want to consider is the Dr. Martin Luther King Birthday Commemoration. Following the performance of African American singing group Alkebulan Boys Choir, the festival of events will continue with a remembrance of Dr. King’s contributions, highlighting his life and civil rights struggles.

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LETTERS TO THE EDITOR

Affirmative action editorial sparks response

Dear Editors,

A major premise of your 1/9 editorial on affirmative action clashes with my real-world experiences in judging candidates for many different positions. That is, one can determine unambiguously who is “best qualified.” It is almost always the case that the considerations are multi-dimensional (e.g., for undergraduates, Caltech seeks demonstrable quantitative and verbal abilities, initiative, perseverance, breadth of interests, etc.) and that the metric for each dimension is poorly determined (to cite the most objective for admissions, SAT scores have a precision no better than +/- 20 points). While this does not mean that all candidates are indistinguishable, it does mean that any measure of qualification has a large error bar, and so there is often a pool of equally “qualified” candidates.

It is then quite unreasonable to consider such secondary factors as gender, ethnicity, or economic background. Steven E. Koong, ’72

Vice President and Provost Professor of Theoretical Physics

Dear Editors,

I was saddened to read the editorial in the Jan 5th edition of The Tech on the subject of affirmative action. It seemed to me that the writer missed the point of the policy rather spectacularly. It is not, as I understand it, intended to right the wrongs against minorities that occurred decades ago, but rather to help right the wrongs that are happening now. For example, while assessing college candidates the basis of race is in a narrow context racist, it is designed to counter a broader racism which permeates American society and denies many minorities access to the quality of education necessary for them to achieve their potential and compete normally in college applications. Affirmative action is described as unfair and racist, but I do not believe that it is. I believe that it is a response, to racism, occurring in America now, that deprives many minorities of things that more wealthy and privileged fellow Americans take for granted.

Pete Burgess

Seismic Lab

Editors’ note: Last week’s editorial on affirmative action was written by editor Mason Porter. The omission of Mason’s name was an oversight and in no way implies that the editorial expresses the views of The Tech, any other editor, or any staff member of this paper.

Note: This is in response to the article “Success & Our Future” by Samson Timoner that appeared in the January 5, 1996, issue of the Tech.

I find the article by Samson inspiring and full of energy. Nevertheless, I disagree with the article in saying that one goals as an undergraduate.

The undergraduate experience is when one usually discovers her interests and talents. It is a unique time in your life when you get to meet many people and participate in all kinds of activities. Goals once decided upon as a freshman may change over the course of four years as an undergraduate. This is quite alright as the average college student in the US changes his major 3 times.

Further, as you progress towards your degree, you may find that you have undiscovered talents even in your junior and senior year. You may not have been exposed to as many things in high school as you are in college, so restricting your goals as a freshman may be a pitfall.

Of course, if you are already sure about how you want to shape the rest of your life (say you want to be the President of the United States), that’s great and you should probably pursue that goal with every effort. But leaving options open as an undergraduate will not damage your chances of success later in life.

The most important thing to do as an undergraduate is not to waste time and remain idle. I suggest that as an undergraduate, one should strive to be doing something productive. This could be anything from doing well in your courses, to doing something local, to writing poetry. The bottom line is to pursue your interests to the best that you can.

Deviabhakti Srikrishna Senior

Please send submissions for letters to the editor to:
The California Tech
Caltech 40-58
PASadena, CA 91125

or by electronic mail to editors@tech.caltech.edu.

Deadline for submissions is Monday at 5 pm on the week of publication.

The editors reserve the right to edit or refuse to print any letter for any reason.

Advertising should be directed to: adv@tech.caltech.edu

Inquiries elsewhere will not be answered.

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VOLUME XCVII, NUMBER 12
JANUARY 12, 1996

Phil Wiggins

An Armchair Adventurer・Istanbul: Travels in Turkey

NARRATED BY DWAYNE L. MERRY

FRIDAY, JANUARY 12, 1996 / 8 PM

Beckman Auditorium

Regular Prices: $9.00 — 7.00

Paco A. Lagerstrom Chamber Music Concerts

PACIFIC CLASSICAL WINDS

SUNDAY, JANUARY 14, 1996 / 3:30 PM

Dabney Lounge

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Beethoven • Kreutzer • Weber

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Scientists report first step toward a quantum computer

by Caltech Public Relations

The work of Kimble’s group is especially important because they have focused on an optical implementation of quantum logic.

The distinction between two alternative states, such as zero or one, no or yes—as of pulses of electrical current through wires, transistors, and other components. The basic building blocks of an ordinary computer are logic gates, which process the bits of information. The processing either places the bits through unchanged or ‘‘flips’’ them, changing zeroes to ones and vice versa. Theorists have proposed that a quantum computer might work by recreating the components and logic gates of conventional computers in a quantum mechanical way, using the quantum states of atomic particles to carry and manipulate information. The basic components in a quantum computer would be quantum logic gates.

Some significant logic gates display an essential feature called conditional dynamics, which means that the output of each gate must depend upon both the input state of the gate. Or, in an optical quantum logic gate, the output state of each photon encoding one bit of information.

In their experiment, reported in the December 18, 1995 issue of Physical Review Letters, Kimble’s group showed strong conditional dynamics for an atom in an optical cavity formed by two highly reflective, mirror-like surfaces, one of which allowed partial transmission of light. The scientists sent pairs of photons through the cavity, and investigated the state of each photon when they reemerged, showing that the output state of each photon depended on the polarization of both input photons. This is just what is required to implement quantum logic.

In effect, the cavity functioned as a rudimentary logic gate at the single photon level. The photons served as the carriers needed to carry bits of information; and changing the photons’ polarization was analogous to flipping the bits in conventional computers.

The Caltech result, by Kimble and graduate students Christina Hood, H. Kelly Turchette, and research fellow Wolfgang Lange, was accomplished in the same machine as in Physical Review Letters by a group at the National Institute of Standards and Technology in Boulder, Colorado. Together these papers represent the first demonstrations of conditional dynamics at the single-quantum level—the level suitable for implementing discrete quantum logic.

While this result is a significant first step, many complex problems remain to be solved between photons and an atom in an optical cavity. The Caltech researchers hope to use this basic logic gate to build computer chips that could be used in quantum computers for “if you slow down, you don’t get there.”

Moore: no more construction!

CONTINUED FROM PAGE 1

students to be one motivated to learn electronic parts and to conduct hands-on experiments.

Having received his Ph.D. in chemistry at The University of Chicago in 1954, Dr. Moore has been a long-term supporter to the Institute. A founder and a member of the corporation for many years, Dr. Moore supported the Institute in 1968 with the late Robert Noyce, he now serves as chairman of the company. Often quoted for “If you slow down, you really doom yourself,” Dr. Moore oversees the Caltech Board of Trustees, while supporting their mission in the Galileo project. The California Tech

The Outside World

by Myfanwy Callahan

New York — The East Coast is caught once again in heavy snowstorms just days after the clean-up from the blizzard of ’96 started. There were 95 casualties of the first blizzard which left millions of tons of snow on the city streets of the East. Snow began to fly again on Wednesday.

Washington, D.C. - The budget talks were suspended on Tuesday until next week. The discussion that was to be about a final decision turned into 4 hrs. of haggling before all parties chose to take a break.

Hampton, New Brunswick — Steve Fossett aborted his attempt to fly non-stop around the world in a balloon Wednesday. After starting in South Dakota, he encountered severe cold weather and technical difficulties, forcing him to land in a field in New Brunswick.

Such a flight has never been successfully attempted.

Kuwait, Russia — Chechen rebels stormed a hospital Tuesday taking 2000 hostages. On a retreat Wednesday, the party was fired upon by a Russian helicopter taking out the only bridge in the area. The group has now taken over a farming village just a few miles from the border.

Jerusalem, Israel — Pales- tinians lined up to mourn the death of the master bomb-maker Yaha Ayash last Saturday. This comes just two weeks before the first Palestinian elections under self-rule.

Tokyo, Japan — Japanese Prime Minister Ryutaro Hashimoto Prime Minister yesterday. He may set a precedent for more assertive and nationalistic leadership in Japan.

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FRIDAY NIGHT ASCIT MOVIE

Baxter Lecture Hall

7:30 & 10:00

$1.50 ASCIT members $2.00 all others

A View to a Kill

January 12, 1996

MARTIN

3

THE CALIFORNIA TECH
Present: The entire BOD plus Jon (not a student) and Peter Manca (Guppy)

Meeting starts at 10:02 p.m. Peter gives us the Movies budget from 1st term. We all discuss P Plant cleaning of Baxter Lecture Hall after the Movies and P Plant's subsequent bills to the Movies. Peter agrees to talk to Bill Irwin, as Peter cleans up the Lecture Hall after the Movies every Saturday. Peter also discusses the problems the Movies had and have with the projectors. Peter finally requests the Movies' second term money from Kanna, and Kanna pays him before he leaves.

- Jon wrote a bunch of recommendations and bylaws and resolutions, many (2) which we passed last meeting/year/term. The BOD discusses Jon's recommendations to the next BOD (notable recommendations deal with setting aside funds during the third term budget meeting to pay for unexpected events/trips/requests later in the year, holding meetings twice per month instead of once per week, and adding a standing invitation which is now SITTING at the BOTTOM of these minutes). We discuss and pass a resolution requiring the BOD to meet with Caltech administration members once per term. We also talk about two possible Bylaw changes. The first proposed change, allowing the president slightly different voting privileges (he now has to beat a dead chicken in 5/4 time whenever he wants to vote), will be turned into a resolution re-defining a tie and defining the word "infamous" as "a possible homonym of the word "arbo-real"". The second amendment, separating the offices of BOC Chair and Vice-President with a 50 terawatt laser, was very incomplete and needs work. We'll rework the schematic and discuss the revised amendment next week.

- Laura has to talk to Graphic Arts about the billing process for the ASCIT copier. Laura also needs to talk to Stan Borodinsky to set up a separate ASCIT account to handle copier-related expenses.

- Jon wrote a agenda for the BOD for all 3 terms. Hopefully, this agenda will serve as a thoroughly redundant, useless restatement of the already-known duties of the officers. Dave will also meet with Sharyn Slavin and Stan Borodinsky about funding for the new ASCIT printer (as David Derkits REALLY would like his printer back). Finally, Dave will put up the signup sheets for ASCIT President and Vice President this Wednesday.

Respectfully submitted,

Dave Relyea
ASCIT Secretary

"A standing invitation to all open ASCIT meetings is extended to ASCIT managers, ASCIT-appointed officers, faculty-student committee members, and members of the IHC and the BOC. Additionally, any member of the Caltech community is welcome to attend."

(We took an ASCIT chair hostage because non-appointed ASCIT officers were not invited except as a member of the Caltech community -Eds.)

---

**Unified Field Theory**

Copies of this lecture can be made available to those interested.
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**DILBERT © by Scott Adams**

I WOULD NEVER BUY SOMETHING OVER THE INTERNET. I'D HATE TO HAVE MY CREDIT CARD NUMBER FLOATING AROUND OUT THERE.

THESE ARE A LOT OF UNRELIABLE PEOPLE ON THE NET.

LATER...

...BOTTOM LINE, IT JUST CAN'T BE COMMON SENSE.

MY NEW BOSS IS POSSESSED BY AN EVIL FORCE. WE NEED YOUR ADVICE, ODSBERT.

THERE IS ONLY ONE SOLUTION. YOU MUST DRIVE A STAKE THROUGH HIS HEART.

THERE'S NO WAY WE COULD DO THAT!

THERE'S 50 TIMES I'LL TALK LIKE THESE LADIES ON GLAD MY HEART IS THE SIZE OF A BALST.

CAN I BORROW YOUR PEN? ALL I HAVE IS THIS WIMPY RETRACTABLE.

IT'S TIME FOR A VISIT FROM CAMPING CAR.

IT'S GOING TO BE LIKE TO DESIRE THE APOLLO 13 SPACE MISSION.

IF YOU KNEW THAT WALLY INVENTED THE CURSE?

GUESS I SHOULDN'T TRY TO GET TO THE SPARED LANTERN.

THEY ALL LAUGHED WHEN I TOLD THEM THIS PLAN.

ALICE IS READY TO DRIVE A STAKE THROUGH THE HEART OF OUR DEMON-POSSESSED BOSS.

IT'S THE TIME THESE LADIES ON GLAD MY HEART IS THE SIZE OF A BALST.

I NEED ALL OF YOUR PENS, INCLUDING "BLUE DEY.

I GOTT A NEW ONE. TWO... THREE.

GOTTA HURRY, ONE... TWO... THREE.

I HAVE THESE SECRET TO GET TO THE SPARED LANTERN.

I'M LEAVING EVERY MINUTE!

THEY ALL LAUGHED WHEN I TOLD THEM THIS PLAN.

I GOT MYSELF ONE OF "00" PHONE NUMBERS.

I HATE...

EVERY TIME...

50 I HAVE TO CALL FOR "JEEPS PEOPLE.

YOUR ENGINEERING WORK WAS EXCELLENT, ALICE, BUT THERE WAS THE LITTLE INCIDENT WHERE YOU...

PERFORMANCES REVIEWS SHOVED ME DOWN A FLIGHT OF STAIRS AND KILLED ME. THIS INVITING THE FORCES OF DARKNESS TO POSSESS MY SOUL.

WOULD IT DO?

I GUESS THIS TOG IS ALL POLITICS.

THIS IS A LIVING DOCUMENT.

NEED TIME, JUST SAY YOU PLAN TO UPDATE IT. MINE'S DEAD.

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**CASE INTERVIEW WORKSHOP**

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Tuesday, January 16

4:00-6:00pm

Winnett Lounge

Please Note the Date Change From January 11 to January 16
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Bausch & Lomb - Glimpse of the Norton
Adam Villani
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Twelve Monkeys
director Terry Gilliam has always made exhilarating films with visions of fantastic and disturbing worlds that play more like wild dreams than movies, and in his latest ef-
to produce a screenplay that is in enough to allow his skills as a di-
tory and storyteller to mature; as such, Twelve Monkeys is stimu-
ating viscerally, emotionally, and intellectually. The movie is a reworking and expansion of Chris Marker's haunting classic 1962 short film Le fruit de la mort that stars Bruce Willis as a prisoner from the future sent into our present to collect a pure sample of a vi-
which will wipe out 99 percent of the Earth's population and force the rest of the human race underground. Willis is consid-
ered a madman in the present-
day world, but as his psycholo-
ist (Madeleine Stowe) begins to
trust his sanity Willis himself be-
gins to doubt it. The time travel
aspect of the film is handled in a particularly interesting way—
stead of trying to change the past, our protagonist is only try-
ing to gather information in the past to help the future. Predes-
tination is just one of many fa-
cinating topics you'll be debat-
ing about Twelve Monkeys for years to come.

Art the Norton Utilities way

by Devabhaktuni Srikrishna

Contemporary art and Norton Utilities? Surprisingly, the two are related.

"A Glimpse of the Norton Collection as Revealed by Kim Dingle" is now showing at the Santa Monica Museum of Art. The Norton Collection con-
tains contemporary art prima-
ry by young and upcoming artists. Although there is no specific theme that pervades the entire collection, there is some focus on the "postcon-
ceptual movement" and works having to do with identity. Kim Dingle, an LA artist, was cho-

ner to create the exhibition of selected works from the Norton collection. In the exhibition she has tried to give a sense of the "behind the scenes' efforts needed to maintain a large art collection.

In 1983, Peter Norton founded Peter Norton Com-
puting, the software company that introduced the popular PC programs Norton Utilities, Norton Anti-Virus, and Unerase. In 1985, after the company became successful, Peter and his wife, Eileen took to collecting contemporary art, fulfilling a dream they had shared since their courtship. Neither of them had any for-
mal background in the visual arts. They established the Norton Foundation in 1988 and became serious art collec-
tors interested in supporting emerging artists and artists from California. Peter Norton Computing was sold to the Sili-
co Valley conglomerate, Symantec in 1990, and the Nortons now spend much of their time collecting art.

In the current exhibit at the Santa Monica Museum of Art, one well known work is a 9 foot tall maquette by the LA artist Charles Ray: another is a prison window by Robert Gober of New York. There are exciting sculptures, photo-
graphs, and paintings which together form a stunning visual experience. The Norton exhibit will be showing until Feb-
ruary 11th. In addition to the four galleries the exhibit spans, there is other art including a work that takes up a whole room with six TVs and two pro-
jectors.

The locality of the Santa Monica Art Museum is fun, too. There are many exotic shops and the Santa Monica Pier also blocks away. To get to the Mu-
seum, take the 110 south, to the 10 west, exit Lincoln left, Ocean Park right, and take a right on Main. The address is 2457 Main Street. The hours are Wed. and Thu. 11 a.m. 6 p.m., Fri. 11 a.m.-10 p.m., Sat. and Sun. 11 a.m.-6 p.m. The telephone number is (310) 399-0433.

YNEWS
by Donna Ebenstein

Whether you like po-
etry or hate it, we have the event for you! Fern Davies, who wrote a
easy reading tonight from 6:30 to 7:30 p.m. in the Judy Lecture Hall. She man-
ages to make even poetry haters enjoy her read-
ings. Come see how she does it...

Monday, January 15th is Martin Luther King, Jr. Day. No, you
don't get the day off. However, the Caltech Y has a few events sched-
uled to commemorate his birthday: 12:00 noon-June Jordan, speaker; Ramo Auditorium, 6:30-8:00 PM-Alkebu-lan Boys Choir * "From Cradle to Carriage", Ramo Auditorium, narra-
tion and gospel choir

See flyers for more infor-
mation, or call the Caltech Y at 6163.


Book Review: A mathematician reads the newspaper
by Stephen D. Van Hooker

How do you go from student to Nobel Prize Winner or from student to C.E.O. of a Fortune 500 company? Achieving success is like baking a cake: if you follow the right recipe, you will get the desired results. The key is that the recipe for success is known! All you need to do is achieve your loftiest dreams is follow the instructions and use the right ingredients.

The first item you will need is a plan. In 1953 a study of Yale University graduates found that only 3 percent had written down their life goals. A follow-up study 20 years later found that the financial net worth of those 3 percent was greater than the remaining 97% of the class combined! What is so powerful about writing your goals? You know what you want to do, why do you have to write it on paper? When you list your specific goals, you force yourself to focus. You will question yourself as you write down each goal. "Is that really what I want to do?" This will force you to ask questions such as how are you going to accomplish each goal. For example, suppose your lifelong dream is to earn a million dollars. Writing that on your goals list will force you to answer how you plan to do it, and whether you are willing to put in the time and effort to succeed. Just by writing your goals, you are forced to think about your future in more detail than you have before.

Once your goals list is written, it will serve as a reminder of what you expect in your future. Put your list in an easily visible place, so you can see it while you’re working. When you are doing a difficult homework assignment, look at your goals list and remind yourself why you are working so hard. In my case, I think going to M.I.T. is a key to my future. Knowing that I need to work hard enough to get into M.I.T. helps give me an extra push, and extra self-discipline to put that much more energy into my class work and research.

There is power in knowing what you want to do in 5, 10 and 20 years. If you walk around everyday thinking about the things you want to accomplish, you will achieve them! Your goals list can transform you from a talker to a doer. In other words, if you are constantly reminded of your goals, you will make goals that will help you accomplish them. Conversely, if you “kind of know”, what you might want to do in 20 years, there is no power.

Go home tonight and make a list of the things that you want to do with your life. If you want to climb Mount Everest, great! If you want to be the first woman on the moon, more power to you. Put down anything and everything you want to do, but make it concrete. Don’t say, “I want to go to graduate school.” Do some research. Pick a specific graduate school that fits your desires so you can visualize specifically why you are working so hard. “I’m working on this because...”

The final step in making a goals list work for you is to spend your day thinking about it. This may seem excessive, but it isn’t. Try it for a day; thinking about your future can change your attitude on life. You’ll have ideas that will help you toward your lifelong dreams— it’s an exhilarating feeling when you have those ideas.

If you walk around thinking, “I really think I can do this,” your self-confidence will build and you will put yourself in a position to succeed.

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We will be holding on-campus interviews on Monday, January 22nd. For more information contact the Career Development Center at 3819-395-6361.
FEATURES

The California Tech

January 12, 1996

by Bill Amend

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On Monday, 470 baseball reporters denied every player on the ballot entry into Major League Baseball's Hall of Fame. This was the eighth time in this annual process, the first time since 1971, that nobody was elected to the Hall of Fame by the baseball writers who voted. Players become eligible five years after retirement and remain on the ballot for 15 years. A player needs to receive 75% of the votes (this year, at least 353 votes) in order to gain election to the Hall. Any player on the ballot who does not gain at least 5% of the vote (each writer may select up to 10 people, including write-in votes) is dropped from the ballot the following year, although reinstatement is possible. (Former Cub third baseman Ron Santo, for example, was placed on the ballot again in 1989 after not garnering enough votes in 1980, his first year of eligibility. His last year on the ballot was 1995, as the intervening years counted for years of eligibility.) Not all players are ever voted on the ballot. There are various longevity requirements and some players are so obviously not Hall-of-Famers (generally, such people were journeymen during their playing careers) that they are never permitted on the ballot. Additionally, Pete Rose is not permitted to be on the ballot due to a rule tailored specifically for him at the urging of former baseball commissioner Bill Hunter. Rose is currently "banned for life" for gambling on baseball while he managed the Cincinnati Reds. Nevertheless, he received 14 write-in votes last year.

Non-election by the writers, however, does not preclude election by the Veterans Committee, and 18 November, the first day of the ballot, comprised mainly of former baseball players and current executives. The Veterans Committee can only consider those who both were on the Hall of Fame Ballot their final year of eligibility and garnered at least 60% of the vote in any one year. Jim Bunning, who missed being elected by a scant few votes several years ago, is expected to be granted entry through this means in 1996.

In each of the past three years (Reggie Jackson, Steve Carlton, and Mike Schmidt in 1993, 1994, and 1995 respectively), only one person per year was voted into the Hall of Fame by baseball writers. In each case, the candidate dominated the rest of the field to be voted into the Hall in his first year of eligibility. There was no suchcandidate this year. Former knuckleball pitcher Phil Niekro led the voting with 321 (68.3%) of the votes. Following him were first basemen Tony Perez (309 votes, 65.7%) who had his peak years as part of the "Big Red Machine" (the Reds) of the 1970's, and Don Sutton (300 votes, 63.0%), the mercenary pitcher whose gray locks are theibewhit reminiscent of Shirley Temple. Niekro, affectionately known as "Knucksie", was in his fourth year of eligibility. He should have been elected, as he won 318 games while losing 274. Additionally, he almost single-handedly kept the knuckleball alive, helping the two main active knuckleballers (Tom Candiotti of the Dodgers and Tim Wakefield of the Red Sox) control their main pitch. Sutton, in his third year of eligibility, won 324 games and lost only 234, and in my opinion should also have been voted into the Hall of Fame. Niekro, master of the spitball. That in itself is not, however, the reason to vote them in, as somebody who does not think Perry should be in the Hall probably should not vote for Sutton or Niekro. Though I feel Perry does belong there, there are some players (such as Harry Hooper) who most people believe do not.

One can also make arguments for Perez, former closer Bruce Sutter (who saves 580 games), and Steve Garvey, the would-be father of our country. None of the players who appeared on this year's ballot for the first time truly deserve election. In fact, only three of them (including Keith Hernandez and Bob Boone) even received the requisite 5% of the votes to be on the ballot next year. Some of those who will no longer be on the ballot are John Tudor, Claudell Washington, Jeffrey ("Blackman") Leonard, Johnny Ray, and Dan Quisenberry. (Quisenberry, though not Hall of Fame caliber, deserved to remain on the ballot for his role as the premier closer in baseball for several years.) In fact, Leonard, Ray, and a few others received no votes. In the next few years, the Hall of Fame will meet with many excellent candidates not currently eligible. In 1999, for example, Nolan ("The Ephrress") Ryan, George Brett, Robin Yount, and Carlton Fisk will all be eligible for the first time (they all retired after the 1993 season), and should all get elected that year.
Swimmers visit Vegas over break
by Clint Dodd

Seven members of the Caltech swim team worked out over Christmas break and attended the “Rebel Classic” held by the University of Nevada Las Vegas. Led by Mike Greene’s times, the Techers went up against the fastest teams they will be facing this year. The teams included the University of Utah, Claremont, Las Vegas, U.C. Davis and eleven club teams. A total of 355 swimmers competed in the three day format. Day one saw Jen Holland and Heather Dean swimming well with fast times for the 50 freestyle, 32.32 and 31.09 respectively. Wes Tanaka took a fast 200 I.M. into the prelims and just missed the finals with a time of 2:12.50. Mike Greene made it into the finals in the 50 freestyle with a 22.29 and returned that night to place 5th in the consolation finals. The relays also did well with Sooketo Bhuta swimming a 23.65 on the second leg of the 200 freestyle and Wes popping a 1:03.54 in the fly, and Greene a 1:01.94 in the backstroke of the 400 medley relay. Day two was highlighted by Wes’ 190 yard fly 1:03.21 and Colin Humphries and Brian Collins keeping improving in the 200 freestyle. Heathav swam a nice 100 backstroke holding solid splits of 22 seconds per 25 yards. Greene, who normally does not swim the backstroke, lowered his time to a 58.90 and made it into the bonus consolation heat for that evening.

Greens, swimming in lane eight, took the race out quickly with a 27.79 for the first 50 yards and was in third place at the wall and held that spot going into the final lap. Five swimmers were even ten yards from the wall as Greene turned it on, out-touching everyone to win the race with his best time of 56.77. The final day saw the team swimming solid with Brian Collins again lowering his time by dropping three seconds per 50 yards freestyle over the weekend. Everyone swam a good 100 yard freestyle with Bhuta working a hard 200 breaststroke swim. It was four years ago that a large Caltech team traveled to the “Glitter City” for the “Rebel Classic.” This year the team effort was hurt by the timing of this year’s event occurring during Christmas break. “Although sending a small group of athletes, the team did extremely well and will benefit from the experience of a big time meet” reports Coach Dodd.

Men capture first place in Hi-Tech Basketball Tournament
by Angie Bealco

Fire. That’s what Senior Matt Doff and Junior Josh Moats were on this past weekend as Caltech held its annual Hi-Tech Basketball Tournament. The Gentlemen Beavers posted an easy win on Friday night against Arizona College of the Bible as they strolled past ACB 76 to 55. Goff played outstanding, throwing in 21 points for the Beavers. Senior captain Steve Tsai also hustled his way toward 14 points that night, helping Caltech advance to the finals. On Saturday night Tech met Southwestern (AZ) in a rematch of last year’s final in which the Gentlemen Beavers fell short to their opponent. This year, a different hand was dealt, and Tech walked away with a royal flush and enough hardware to satisfy a king. The first half gave the fans a heated neck and neck battle to watch as both sides played aggressively from the tip off. Goff shot well from the key, while sophomore Arun Durairaj put heavy pressure on the opposing point guard and tallied an amazing steal, finishing the playoff with a coast to coast lay-up. Moats sank two “three” pointers in the first half adding to Tech’s strong shooting effort. That trend wasn’t to be broken in the second half as Moats sank five more threes. Tsai also put in a pair of threes in the second half, as the Beavers began to pull away.

Sophomore Liz Callaghan enjoys a moment of calm before her descent into the pool.

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Clint Dodd
by Angie Backo

Oh and Five. That's the street where the Beavers Basketball team is looking to break. Friday night may be the time for the turn around. That's when the women take on Pacific Christian for their third match up of the season. The first contest against PC proved to be mainly a game between one extremely fine tuned team that had seen over a month of practice under their belts. Unfortunately, Caltech filled the shoes of the newcomers. PC's offense and endurance was too much for the Beavers to handle opening night in Caltech's Braun Athletic Center.

The second matchup featured a fantastic first half showing by Caltech. The ladies demonstrated a much more controlled offensive and played extremely aggressive defense. However, PC came on strong the second half and clinched the win. The third and final matchup brings Pacific Christian back to Braun Athletic Center tonight (Friday) at 7:30 p.m. Coaches Sherry Roche and Mike Tice have helped developed stronger offenses for the Beavers and imbedded more aggressive defensive traps as well. These changes should enable Caltech to make a powerful showing Friday night at their final home appearance. The women are playing more cohesively as a team in recent games, since all of the players are seeing large amounts of playing time. Inconsistent passing and revolving still plague the Beavers, but an increase in hustle has helped damper the effects of the turnovers. Look for Tech to fight hard for a win tonight as the 1995-96 home season comes to a close. Goout to Braun and support the team at 7:30 p.m.