The Magnificent Seven

Howdy, all. In case you didn't hear about it beforehand, ASCIT sponsored a Supplementary Undergraduate Doughnut - Distribution Session (SUDDS) at 1:00 am on the night of the 6-7 March (last night), in addition to the regular Friday Morning ASCIT Doughnuts.

On the suggestion of your faithful treasurer and mine, John Lin, we at the ASCIT Board of Directors (BoD) decided that this was a great way to reach out to a broader population of ASCIT members with this late-night treat. I hope you got a doughnut.

We in the BoD have an ongoing quest to broaden the reach of ASCIT (Get it?) Carrying lots of boxes of doughnuts, thereby lengthening our arms... Alright, it was a stretch... so that people like Mr. Hatfield aren't left out.

We'd like to receive a survey on the distribution of ASCIT's budget.

What's the budget? Doesn't ASCIT do more than just dole out money? Well, yes, of course we do. But much of what we do requires money — geez, even the survey will cost money to send out — and if you've ever dealt with a bureaucracy you know that the real power is invested in those who hold the purse strings.

For example, on the newsprint caltech,ascit, Mr. Murase has spawned a discussion on the efficacy of the ASCIT Meetings. I think the discussion therein is really worth a look and please post your opinion, too.

But that's just an example. Take a gander at the 96-97 ASCIT budget, now, or when we mail one out to you. I'll try to itemize it a bit more than it is vested in he who holds the purse strings.

In that week's issue

Just how important are grades? Frosh will find out soon enough.

see next term...
Dear Editors:
I was quite shocked at Dave Relyea's outrageous re¬sponse to John Hatfield's article, "ASCIT elects apathy." (The California Tech, February 21, 1997) Not only was it a personal attack, it also failed to address the major points presented by the article.

The article never states that ASCIT is useless — only that it has a disjoint relationship with the houses and the student body. Yet what does Relyea do? He gives a list of the func¬tions that the ASCIT does, and states, "If you think Caltech would be a better place with¬out any of these things, then I'm going to offer my humble opinion that you're f**king wrong." What Relyea does is not to offer a solution to the problem: how should the ASCIT deal with the apathy of the student body? What should ASCIT do to establish a better connection between the houses?

Let's face it — ASCIT may do many important things, but it adds to the backlash in reaching out to the students, it will be taken for granted. This is the real danger ASCIT is in — and Relyea fails to see this.

To be fair, John Hatfield's article clearly showed a lack of depth and information. For ex¬ample, John Hatfield should have interviewed more people and people within ASCIT be¬fore writing things like, "Why does ASCIT have such a disjoint relationship with the houses?" ..."it seems the house presidents and ASCIT interact very rarely outside of (rotation)." Nevertheless, the personal attacks made by Relyea, such as, "You total flaming idiot. Please stop some conscious thought into your question before they're asked, okay?", are totally unwarranted. In conclusion, Dave Relyea's juvenile response to John Hatfield only hurts ASCIT — it shows that ASCIT was not concerned with a person who is not willing to deal with a major problem that ASCIT faces.

Daniel Song
Undergraduate

KIM D. WEST
DIRECTOR OF RESIDENCE LIFE

Affirmative action: to discriminate or not to discriminate

by Cherise Brown

On November 5 of last year, about a fourth of California's population voted on Proposition 209, the "affirmative action" bill. While it is troubling that it took the votes of only 13.7% of the population to pass the proposition, the image given by affirmative action by its opponents was far more disturbing.

Proposition 209 was put on the ballot by black businessman Ward Connolly (see Feb. 3, 1997 Time article), and Republicans, Libertarians, and a few other groups jumped on the bandwagon. The left-wing political spectrum was quick to say that they'd gladly give up an affirmative action for a better alternative.

Unfortunately, the only "alternative" offered, mostly by Libertarians, was that the market would punish discriminators. This is a delusion: the market will not get rid of discrimination. Those who advance this lassiez faire strategy need only look at the electorate to understand. Prior to the passage of the Equal Opportu¬nity Employment Act, the stat¬es and roles of women and mi¬norities had remained virtually unchanged from the post-Civil War era.

If anything, affirmative ac¬tion policies haven't done enough. Today's economic sys¬tem is controlled almost exclu¬sively by white males. A recent survey done of the 7,314 most pow¬erful positions in the U.S. (in both government and pri¬vate sector) by Tom Dye of Florida State University showed that women occupied 318 of these positions; blacks com¬promised only 25%.

In 1992, the Anti-Defama¬tion League surveyed Cauca¬sians on eight common but un¬true stereotypes about African Americans (laziness, low intel¬ligence, welfare exploiters). Al¬most 8 of 10 Caucasians be¬lieved one or more of these stereotypes, while a third of those sur¬veyed be¬lieved the stereotypes of the Cau¬casians. And of African Americans in general, and 90% of Afri¬can-Ame¬ricans with graduate degrees faced workplace discrimination in the year before the survey.

In light of the "affirmative ac¬tion" here. Yet con¬servatives say that affirmative

The California Tech

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Of course, this is thekey to understanding the image given by affirmative action. Affirma¬tive action policies have never been an end in themselves; they are the means by which we may achieve a more just society.

This is the only true alternative to discrimination: a society that is structured to give all of those in the minority a voice.

Cherise Brown

Attention to specific social systems has been	an armament to help the suffering of the people. If affirmative action is not an initiation to change, then what is it? Why is it that, for instance, even in the University of California at Berkeley, the students are the ones who are discriminated against? The answer is an unwelcome one: institutions of higher learning have acknowl¬edged this fact, and in order to move away from discrimination, have set affirmative action programs as an alternative to this problem.

Today's urban and suburban youth are more aware of the systematic problems in the world than previous generations. They are becoming more aware of the need for a more inclusive society, one without discrimination.

The only real alternative to indem¬nify all people, not just those who are currently discriminated against, is affirmative action, which is not only the key to understanding the image given by affirmative action, but more importantly, a tool to change society as a whole.

Cherise Brown

The California Tech
If they didn't know that lasers could blind you, why are they working in a laser lab in the first place?

If they didn't know that lasers could blind you, why are they working in a laser lab in the first place?

enough to neglect to preserve their own eyesight on occasion, is this half hour of high school level material going to correct the situation?

3. If they didn't know to always check a patch before putting their face in front of a laser beam, what in tarnation are they doing at Caltech?

"The point of safety is to be redundant," I was told. This I can accept. If they'd said, "Well, Austin, the NSF is coming through and in order to mollify them and get our grant money we have to do this," I'd be okay with that. Even if they said, "This is necessary to protect us from silly lawsuits," this would suffice.

However, this is not what they did. Instead, things like "Laser safety is an important issue that is going to take a more prominent role in lab maintenance," were the going lines.

This fire drill that was conducted Tuesday night is precisely the same thing. In this drill, the Caltech Safety Office managed to conclusively prove that if you e-mail everyone in advance, go through the Houses knocking on doors after the alarms go off, and have donuts waiting for the students on the lawn, some of the undergrads will come out of their rooms when the fire alarms go off.

No rational individual who has ever run the gauntlet of safety requirements that are necessary to work in a modern laboratory environment believes that these courses prevent accidents. For example, employees of LIGO who work in laboratories where lasers are present were recently required to take a laser safety training course.

This course consisted of a lecture and video, watched by people who make lasers themselves, assembled by a man who barely knows what a laser is. This is not to demean in any fashion—his familiarity with federal guidelines and experience in this field make him very well qualified. It is simply that seeing some of the premier experimentalists on campus in a room watching a video

one in advance, go through the Houses knocking on doors after the alarms go off, and have donuts waiting for the students on the lawn, some of the undergrads will come out of their rooms when the fire alarms go off.

one in advance, go through the Houses knocking on doors after the alarms go off, and have donuts waiting for the students on the lawn, some of the undergrads will come out of their rooms when the fire alarms go off.

O P I N I O N S

The California Tech

The Outside World

by Myfany Callahan

BONN, GERMANY—Defense Secretary William S. Cohen told American allies in Europe that the United States will pull its peacekeeping troops out of Bosnia in 1998, whether the country has regained stability or not. He left open the possibility of a combined European force taking our place in Bosnia.

DANNENBERG, GERMANY—Hundreds of anti-nuclear protesters throw stones and firebombs at riot police while attempting to block a shipment of nuclear waste. The police arrested 250 protesters.

KITTIM, UGANDA—Christian fundamentalist rebels in Uganda are waging terror on villages of the north. Members of the Lord’s Resistance Army, searching for deserters, killed 8 women and a girl with bayonets in the village of Palabar.

LA PAZ, BOLIVIA—The heaviest rains in almost 30 years flooded the tropical lowlands of Bolivia, killing at least 16 and destroying the crops of 100,000 farmers. Cases of malaria and yellow fever have already begun to rise due to the water-logged terrain.

VILORE, ALBANIA—The port city of Vlore is strongly considering becoming an independent city-state within Albania. Currently government troops and tanks wait outside the city for more support, while citizens of Vlore say they will use their tanks if the Government chooses to attack.

ARKADELPHIA, ARKANSAS—Violent tornadoes that struck last Saturday killed 25 and injured hundreds of others in Arkansas. Rains associated with the storm have swelled the Ohio River to its highest crest in 30 years, causing hundreds of millions of dollars worth of damage in Kentucky and Ohio as well.

AFF. ACTION: Keep it around behavior: letting people see for themselves that there are no fundamental differences between people.

Those who are being "punished by the market" seem to believe their employment problems are caused by minorities rather than considering that they aren't qualified. However, for centuries our ancestors "stole jobs" away from qualified minorities and women. For once in history, we've actually made progress toward a level playing field. I'd hate to see us take two steps back from the one we've taken forward.

*Sall studies and studies cited in this paragraph are from a silk given by Joe Winternitz, Professor of Sociology from the University of Florida, at a Public Education Network conference on racism and education.
Dean's Corner

Hominis in ova ovis: Men in sheep's eggs

by Jean-Paul Revel

Hear Ye! Hear Ye! "Mary had a little... clone," announces Science Magazine. Actually, "udderly amazing" Dolly was born 7 months ago in Scotland, a "cloned" sheep produced by inserting the nucleus of a cell from the udder into an encapsulated egg, and implanting this artificial construct into the same sheep's womb where it developed. A whole flock of genetically identical lambs could be produced by implanting nuclei from one animal into the enucleated eggs of another, and allow them to develop. There, flocks of identical sheep gambolling through the Scottish moors.

The Ball's in Your Court

The time has never been better than now to join an All-Star team of professionals setting league records at a consistent pace. The ball is in your court. We will be interviewing on campus March 10. For interview consideration, please sign up at the Career Planning and Placement Office.

Features

Hominis in ova ovis: Men in sheep's eggs

by Jean-Paul Revel

Well, I tell ya, that is most interesting and seems to have raised many a Megillah in the scientific community. The assumption was made that the next step would, of course, be to clone humans. The researchers in the lab where the sheep cloning was done say they have no interest in expanding this work to humans, and that the very idea is unethical. Yet someone else might do it, now that the sheep is out of the barn.

I heard newscasters seriously discussing the possibility of cloning lots of little Hitlers, and what the world would come to then. Someone suggested the possibility that one might use the technique to bring back a deceased loved one. On Channel 7 the anchor demonstrated what it would be like by having 2, 4, 16, 32 himselfes filling the screen, his colleagues teasing him that it would indeed be a mishap of the first magnitude.

So is it true that "democracy itself" (Los Angeles Times) is in danger because of what happened with these English sheep? Is there an imminent danger to humankind? Are we about to be taken over by flocks of cloned droids, or is it all noise hyper-designed to sell news? Where does the road lead us?

First a bit of history. Briggs and King are famous because in 1962, they took a frog egg, removed its nucleus, and then implanted a nucleus from an embryo, which had already started on the path to development. They found that tadpoles could develop from such eggs. That of course established the principle and feasibility of cloning vertebrates, but no one got very anxious at the prospect at the time.

A decade later, John Gurdon at Oxford carried out a similar experiment, this time using nuclei from gut and tailfin cells which were "ma­ture," differentiated, instead of embryonic cell nucleus as Briggs and King had done. Some of the differentiated cell nuclei, too, when inserted into an enucleated egg, could guide the development of a new organism all the way to maturity.

So, in fact, these are the people who performed the earliest "cloning" experiments. A whole lot has now been done in sheep, which are much closer to us than mice or frogs. Of course some of you will, I am sure, be surprised that I would acknowledge this, myself being a frog in the shoes of all you rabbit eaters.

What is now feared could happen is that thousands of cells from a single individual could be implanted into thousands of eggs, and allowed to develop into thousands of human clones, which would then take over City Hall or the UN, or Caltech itself, and thus enslave the World. Well... maybe so, but I don't think that this is likely, or even if likely, that it (cloning, not taking over the world) would be a dangerous development. The reasons are many, and I will briefly examine a few scenarios.

We can do as we please with sheep, perhaps, but to clone lots of humans, we would need to have thousands of women volunteer their uteri for nine months in order to grow the clones.

We can do as we please with sheep, perhaps, but to clone lots of humans, we would need to have thousands of women volunteer their uteri for nine months in order to grow the clones.

If you can't visit us on campus, send your resume to: Altera Corporation, Human Resources, Attn: Hsieh Drury, College Recruiter, 2610 Orchard Parkway, San Jose, CA 95134-2020; fax: 408-435-5065; e-mail: hdruvy@altera.com. We are an Equal Opportunity Employer.

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features
January 24, 1997
5

eggs are needed, the clones pro-
duced would not be identical, and
even so, they would not pass
contribution. They actually would
be less similar to each other than identical twins, who share both mitochondrial and nuclear DNA.

That brings us to another re-
alization: identical twins, in
spite of having genetics in com-
mon, are nevertheless not like
worker ants, marching all to the
same drummer (unless they
dwell double mint gum). So why
should we expect clones to be
more like identical twins?

Not only will multiple
dones have less than an exactly
similar set of genes, they will
also have experienced different
circumstances. This may affect their behavior. Nutrition is an important
consideration in development and the
different nutritional histories
during pregnancy may result in,
different behavior. This may
influence the behavior of
individuals of any species.

Every restaurant today has
posters reminding us of the ef-
fact of alcoholic beverages on
outcome of pregnancies, and
consumption of other drugs (or
taking needed drugs as the
use may be) will also have their
effects on the fetus. So does diet.
(how many pickles, how much
ice cream), more seriously, how
balanced a diet.

After birth, the clones will
be brought up in different envi-
rnments (different homes, etc.),
which will also affect their
individual behavior. They will
tend to be altered by their
environment. The offspring of two
people with opposing political
views are likely to be more different
than identical twins.

and clone may well have
interesting experiences, or the clone might
be overwhelmed by the things
around them.

If the clone is a boy or a girl,
then it is the parents who decide
whether the clone is to be male or
female. The cloning process
is very complicated and
expensive. The clones are not
likely to be the same as the
parents, but they will have
some of the same characteristics.

It is possible that clones
might end just in

The generation gap is not a
problem. The road to travel seems
entirely.

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Information Session
Wednesday, March 12, 1997
4 pm - 6 pm
Watson Building, Room 104
Please bring your resume.
Refreshments will be served.

"I have evolved into a driving force in the telecommunications and healthcare
found to be a poor donor? Would
time to allow to predict what
by 81 clones, who would
e10nes...

Sume that they can be overcome
genes... They contribute... differing
reduced nuclear DNA.
"vire.

Ie.

Iron gly

kought

longly

shoul d we expect clones to be
share both mitochondrial and
cellular DNA. They
may be) will also have their
bent together are more
sames, who would

Johnny II have organs which
might be) will also have their
fetuses. So does diet

want d effective genes from

in any case, why should
nated in any case, why should

cloning, since only one sex is

be inherited by the
done by the

of the clones

be more than identical clones would do.
If one ever relaxes this require-
ment there are many prob-
lems. In the doomsday scenario,
one assumes all the clones
be one of mind, ready to
create whatever havoc their
maximum leader, in whose im-
age they would presumably
have been created, would enjoin
them to carry out. Now, the
thing is, would all of the clones
really do what the mistress of
the world had decided? Why
would each... than any mongrel Jill or Jack?

It seems to me... than any mongrel Jill or Jack?

Johnny II have organs which
be produced by

ew to be produced by
cloning, since only one sex is

be inherited by twins

issues because they so

double mint gum). So why

be inherited by the

were given for narrower
reasons, this would probably
not matter. The road to travel
seems very difficult and achieves very
little in human terms which can-
not be done more easily in other
ways.

A bientot, A bientot, A bientot, A bientot, A bientot, A bientot, A bientot, A bientot (closed with Word 6...),

I No, by and large. They would
at first too small and unus-
able, with ciliospinal fluid
pority, as well as a source of
cells to repopulate ravaged
immune systems. But that, a
harmful procedure, has already
been done within a family where a
new sibling was conceived for this
specific purpose. Eyebrows were
raised, yes, but it became
clear that the baby was not just
wanted for spare parts, but
would also be loved for its own
Eye, and eyes seem to soon
have closed and eyebrows

So where does this leave us?
Will this sheep cloning open a
floodgate for the production of
human clones? Not likely. Al-
though the problem should be
considerately and deb-
ated, I do not see clones as the
great danger they are depicitred
to represent

Andy Rooney said the other
night that the question was not
if it would be done, because
anything that man can do be
will, but who would give the go-

head. I am comforted by the
thought that even if the go-

ahead were given for narrower
reasons, this would probably
not matter. The road to travel
seems very difficult and achieves very
little in human terms which can-
not be done more easily in other
ways.
U2 returns to the music scene with their ﬁrst single since Zooey’s release in 1993 and 1995’s Original Soundtracks with producer Brian Eno. The new album, entitled Pop, reﬂects U2’s uniqueness and innovation as perhaps the world’s premier rock band.

Continuing along the same hard-edged vein as the Zoo TV tour of 1993, the album begins with their ﬁrst single, the dance hit “Mofo.” Of course, Pop is simply doused with U2’s naturally driven songs, with Adam Clayton on bass and Larry Mullen on drums (the same duo that Soundtracks uniqueness and innovation as “Mofo”). Of “Discotheque,” the dance hit

strengths of songs, with Adam Clayton on bass and Larry Mullen on drums (the same duo that Soundtracks uniqueness and innovation as “Mofo”). Of course, Pop is simply doused with U2’s naturally driven songs, with Adam Clayton on bass and Larry Mullen on drums (the same duo that

One of the primary strengths of U2’s music has always been the lyrics, care of Bono (vocals) and The Edge (guitars). The duo manages to put on paper the cynicism of the start-up approach, and market environment in each case.

Wednesday, March 12
5:00
Time:
Where:
The Spaulding Conference Room.

“Mofo,” Bono sings, “Lookin’ for that feel that God shaped hole. / Mother mother sucking rock and roll / Holy dune jaimie compain in in / the splash / white dopes on punk staring into the sky.”

Bono’s political activism, like Peter Gabriel and R.E.M.’s Michael Stipe, is reﬂected in his songs. The song “Staring At The Sun” contains many allusions to the Bosnian conﬂict, of which Bono has been an active proponent of peace.

Pop continues the experimental mixings of Zeppelin, ranging from the industrial to the pseudo-spoken word “Mi-ami,” reminiscent of Harry Rollins with a lot of bass. One can even sense a bit of country twang in “The Play­ boy Mansion.”

Pop encompasses many genres and as a whole the album lacks uniformity and cohesiveness, perhaps due to Bono’s absence from Pop’s production. However, the CD is truly not to be missed and deﬁnitely not to be taken lightly. It’s sure to be a U2-shaped hole in your collec­tion.

Bono says next year’s URIH will include mail codes to send resumés to.

Adrianne says that nobody does, so it’s okay. Kiran reports that the ASCiT copiers will hopefully be equipped with a card reader sometime next term.

Adrianne says that we’ll have Really Early ASCiT donuts Thursday/Friday at 1AM, but that was last night, so if you missed it, too bad. Remember there are also normal ASCiT donuts every Friday at 8AM. ASCiT Formal will prob­ably be Friday, May 23. Ar­ranging for that are under­way, blech. Mike updates the BOD on the Student/Faculty conference, which will be April 15. (April 15 is Tax Day and World Explorers that Professor McCaffrey’s book, Taxiing Women, will be available for $29.95 in bookstores everywhere.) Check out the articles regard­ing the Student/Fac­ulty conference in this week’s Tech. ARC Rep elections are happening now. ARC Rep-at-Large selections will be early next term.

Lori and the JHC met with the DAPAC Review Committee on Wednesday. Talk to your house president about Caltech’s drug and alcohol policy and its review. A glove is found sticking to the couch. It does not ﬁt Kiran, nor is it bloody. Upon noticing a GIANT spider, Kiran drops the glove and ﬂees the scene in a white Ford Bronco.

John tells us about Patricia Croke, the new bookkeeper for ASCiT, the Tech, and the Big T. Debussy ranged from despair to bounding optimism.

The piece of music commis­sioned by the Women’s Choir Group (under the direction of Adrienne, Baldeep, John, Mike, and Lori) was titled “Sing We of Music.” In the composer Maria Newman’s words: “music provides a platform upon which we can express our ideas, and our emotions can be so subtly, so delicately, so subtly expressed in other ways.” One of the things she wished most was to convey that music is “simply there to be enjoyed.”

The Women’s Glee Club held its Silver Anniversary Concert on Friday, February 28, in 1997, marking 25 years of creating beautiful music. The Women’s Glee Club holds the distinction of being the oldest student organization on Caltech’s campus. It started in 1972 with the arrival of conduc­tor Monica J. Hubbard, who has led and shaped the Women’s Glee Club since that time. The earliest Women’s Glee Club had an ex­ tension of the Men’s Glee Club, and both toured across the north­western United States singing (and sometimes even dancing!) as it was discovered to my surprise while looking through the old club scrapbooks. Through these, I saw that the creativity and uniqueness of every member of the glee club shone through the years, espe­ cially in the scrapbooks that each member had whimsically signed.

The concert revolved around one idea: the Joy of Music. It was with this in mind that Con­ductor Monica Hubbard chose a beautiful selection of classical pieces, running the emotional gamut from joyful to sad. With the opening “Gott in der Natur” by Franz Schubert, the majesty of female voices raised in unity was revealed. “Aure Volant!” by Johannes Caccini was especially delightful. Women were gentle comfort of a beautiful day, and invited the listener to relax and enjoy the sweetness of the song. Assorted duets and solos written by Mendelssohn and Haydn showed­cased the talents of individuals in the glee club as well as the Clef Hangers. Accompanied by under­graduates Carolyn Chan and Rachel Steinherz on the French horn, works by Brahms and

There is a general cry of hal­lujah as Bono has “nothing to say.” blech.

Kohl talks about the ASCiT Excomm meeting. Read the minutes in this week’s Tech. Kohl proposes that we consider a bylaw change to clarify eligi­bility for ASCiT membership for anyone not currently regis­tered as an undergraduate.

Weary discussion about the ASCiT Movie session ensues. The ASCiT Movie Team will have a meeting this Sunday at 1PM in SAC Club Room 4. Discussion tabled until next week.

Meeting adjourned, and partic­iants run away screaming at 12:55AM.

Respectfully Submitted,
Maria Sattarwala and Adrienne Boursie, ASCiT VP/Bs-Chair and ASCiT Social Director

WOMEN’S GLEE CLUB CELEBRATES SILVER ANNIVERSARY

The Women’s Glee Club held its Silver Anniversary Concert on Friday, February 28, marking 25 years of creating beautiful music. The Women’s Glee Club holds the distinction of being the oldest student organization on Caltech’s campus. It started in 1972 with the arrival of conductor Monica J. Hubbard, who has led and shaped the Women’s Glee Club since that time. The earliest Women’s Glee Club had an extension of the Men’s Glee Club, and both toured across the northwestern United States singing (and sometimes even dancing!) as discovered to my surprise while looking through the old club scrapbooks. Through these, I saw that the creativity and uniqueness of every member of the glee club shone through the years, especially in the scrapbooks that each member had whimsically signed.

The concert revolved around one idea: the Joy of Music. It was with this in mind that Conductor Monica Hubbard chose a beautiful selection of classical pieces, running the emotional gamut from joyful to sad. With the opening “Gott in der Natur” by Franz Schubert, the majesty of female voices raised in unity was revealed. “Aure Volant!” by Johannes Caccini was especially delightful. Women were gentle comfort of a beautiful day, and invited the listener to relax and enjoy the sweetness of the song. Assorted duets and solos written by Mendelssohn and Haydn showcased the talents of individuals in the glee club as well as the Clef Hangers. Accompanied by undergraduates Carolyn Chan and Rachel Steinherz on the French horn, works by Brahms and Debussy ranged from despair to bounding optimism.

The piece of music commissioned by the Women’s Glee Club Group (under the direction of Adrienne, Baldeep, John, Mike, and Lori) was titled “Sing We of Music.” In the composer Maria Newman’s words: “music provides a platform upon which we can express our ideas, and our emotions can be so subtly, so delicately, so subtly expressed in other ways.” One of the things she wished most was to convey that music is “simply there to be enjoyed.”

The Women’s Glee Club had played an active role in the concert. For one piece, she accompanied the glee club on viola and violin, and changed parts of the piece to ﬁt the glee club during rehearsal. Katie Noyes, a ﬁrst alto, commented that “it was especially exciting this term to sing a band new work, to be able to sit down from the risers and see the composer there playing the viol­in with us.” There was a bonding of women during this glee club concert. Being part of the creative process that involved shaping the music to sound to be and gaining the praise of the per­son who had actually created the music was an enriching ex­perience.

In the lives of many graduate and undergraduate women at Caltech, the Women’s Glee Club has been a source of both fun and laughter, and hard work and pain. The ties that it creates last, in some cases a life­time. It is an organization that living out the idea of “singing is not reserved for the select few, rather it is for everyone to enjoy regardless of abil­ity or experience.” Perhaps the reason this club has been so successful is that it has been a strong part of Caltech so long.
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wine is "toast" which refers to how much the oak was charred when the barrel for the wine was made. "High Toast," for example, means a wine was fermented in an especially charred barrel. Rather than tannin, tartaric acid produces the texture of a white wine. The acid is "lemony" and biting to the tongue. It, along with the sugar, dominate the aroma of a wine. The acid tends to heighten the senses in the mouth so that food eaten after drinking a high acid wine (0.5 g to 1 g/100 mL) will taste particularly flavorful. For that reason, dinner wines have more acid than desert wines. Sugar makes wine flavorful and counteracts the bitterness of the acid. The sugar level in a wine must be controlled extremely precisely so that the grapes must be picked at the exact stage of maturity. Desert wines have more sugar that dinner wines, making about 2% of the wine. A dry wine will have about 0.2% sugar in it.

At the end of the evening, those in attendance tasted six different wines to notice how each ingredient affected each wine differently. Many disagreed on which wine was the best.

Mr. Weiss advised everyone, "Trust your first impression, not what others say." A good wine is one which the drinker likes.
KOHL: ASCIT’s use

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SIGMA Xi seeks nominations

Sigma Xi is a prestigious national scientific research society founded in 1876 as a honor society for scientists and engineers. The Caltech chapter is currently seeking nominations for new members from the faculty on campus, undergraduate students, research fellows, and JPL staff members.

There are three kinds of nominations to be made: Associate Membership, Promotion to Full Membership, and Full Membership. An Associate Member is a person who has demonstrated aptitude for research through, for example, a SURF or other research project, and his/her efforts deserve recognition and encouragement. A Full Member is someone who has displayed noteworthy achievement through publication and patents, written reports, or seminars. The deadline for the faculty to send in the nomination forms is Tuesday, March 11. Nominations can be granted for special circumstances.

If you believe that you are qualified to be a Sigma Xi chapter member and would like to be nominated, there are two possible ways to ask for nomination. First, you could approach your research advisor, and simply ask him to nominate you. The second and more assertive way is to fetch a nomination form directly from Sandra Estes in the Dean’s Office, and give it to your research advisor.

Once the nominations have been completed, the Sigma Xi membership committee will review the applications and elect new members and Associated Members. In April, the committee will send out offers of membership to the nominees, which they can then decide to accept or decline.

An induction ceremony and an annual banquet will take place on May 22 this year to welcome new members. Highlights during the ceremony will include a half-hour scientific talk by a guest speaker on his current research. If you would like more information concerning Sigma Xi, please feel free to contact Sandra in the Dean’s Office, or Fay Peng at peng@caltech.edu.

SIGMA XI seeks nominations by Fay Peng

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BY MASON A. PORTER

Last Wednesday, Major League Baseball's Veterans Committee elected former Dodger manager (and current Dodger vice president) Tommy Lasorda to baseball's Hall of Fame. Also elected were former Chicago White Sox second baseman Nellie Fox and former Negro League shortstop Willie Wells.

Lasorda stepped down as Dodgers manager (and was replaced by former Dodger shortstop Bill Russell) last summer, because he suffered a heart attack. (Rumors persist, however, that he was compelled to step down to his stellar performance with the Philadelphia Athletics for 50 seasons, John McGraw (31 years with the New York Giants), and Walter Alston (23 years with the Dodgers). Tommy Lasorda's 61 postseason games managed ranks second all time to Casey Stengel's 63.

Lasorda's many accomplishments, however, are belied by mere statistics. He recognized that the ultimate purpose of baseball is to entertain the fans, and that is exactly what he did throughout his tenure as Dodger skipper. Moreover, he served as perhaps the finest ambassador the game has ever known. He has travelled throughout the world preaching the virtues of the game of baseball and the glory of the Dodgers. Additionally, he makes countless public speaking and charity appearances every year. Lasorda has also earned the utmost respect from his players and his peers. Brett Butler, for example, stated, "Tommy is a baseball fixture. It is an honor to have played for him. He is the greatest manager I have played for." Lasorda is a Hall of Famer in every sense of the term.

Said Lasorda, "I want to thank all the guys who made this possible. It's the greatest thing that ever happened to me." He was more specific when talking to Dodger broadcaster Ross Porter during the Dodgers spring training game against the Montreal Expos. In typical Lasorda fashion (he loves being a skipper), moreover, he served as an entertainer, his voice was cracking during the entire interview. He reiterated how honored and overwhelmed he was before going on a thanking spree.

Among those he acknowledged were his players, the press, and Dodgers announcers Vin Scully, Ross Porter, Rick Monday (who also played for Lasorda), and the late Don Drysdale. For some reason, however, former Dodger announcer Jerry Doggett at this time. Lasorda presented a special award of gratitude for Dodger owner Peter O'Malley and his "mentor" Al Campani (who use to be the Dodgers' general manager), who is currently hospitalized.

The ceremony will be held Saturday (along with former Chicago White Sox, Nellie Fox, and Willie Wells) on August 3 in Cooperstown, New York. Ironically, the Dodgers will be playing in this year's Hall of Fame Game (to be played on August 4 against the San Diego Padres), so Lasorda's consecutant induction is especially apropos.

Nellie Fox, whose 19 year Major League career ended in 1965, was a second baseman primarily for the Chicago White Sox. He also played with Houston for a short time. He compiled 2663 hits and played on ten all star teams. Fox had been named on the necessary 75% of the Veterans Committee ballots in 1996, but was denied election to the Hall of Fame because of the rule that the committee can elect only one player in the "former player" category each year. Last year, Jim Bunning received one more vote than Fox. Fox also came close to Hall of Fame election in 1985, his 15th and final year on the regular ballot. He received 295 of the necessary 297 votes. Players who come sufficiently close to election by the baseball writers are reevaluated on the ballot all 15 years are eligible to be considered for election by the Veterans Committee. Eighteen other players were considered by the Veterans Committee this year. Some notable names among these players are Pete Browning, Dominic DiMaggio (Joe's brother), Larry Doby, Wes Ferrell, Jack Glasscock, Joe Gordon, Gil Hodges, Marty Marion, Bill Mazeroski, and Allie Reynolds.

In addition to former Major Leaguers, the Veterans Committee may elect people from three other categories: players from the pre-1900 era, Negro League players, and a composite category consisting of managers, executives, umpires, and pioneers. The Veterans Committee consists of 15 members. One third are former players (Yogi Berra, Monte Irvin, Stan Musial, Pee Wee Reese, and Ted Williams), one third are former executives (Joe Brown, Buzzy Bavasi, Buck O'Neill, Hank Peters, and Bill White), and one third are media members (Bob Broeg, Ken Coleman, Leonard Koppett, Allen Lewis, and Jerome Holtzman).
Caltech tennis teams fight hard against Redlands, Biola

On February 15, the Caltech men's tennis team traveled to Redlands to play their second conference match. The Beavers lost 9-0 to the Bulldog powerhouse, but there were some bright spots for the Beavers. Freshman Matt Musick, playing at number singles, took his opponent to three sets. At number two doubles, Musick and partner Jeff Miller played two hard sets, losing 6-3, 6-4. At number one doubles, Ronak Bhatt and Jason Ismail also had a tough three set battle, 6-3, 6-4, 2-6. Coach Gillam assured, "To win sets against an excellent Redlands team is quite an achievement and uplifts Caltech's continuing improvement."

On February 21, the Beavers traveled to the land of the Poets. It was a heartwrenching loss for the Bears. In singles, Bhatt, at number one, lost 2-6, 6-7. Musick (number two) lost 3-6, 5-7. At number three, Jenkins won 6-2, 7-5. Custer (number four) won a tough three set, 6-4, 5-7, 6-3. At number five, Eric Denniss had a tough five-set match, losing 6-7, 6-4, 6-2, 6-7, 6-4. Kagawa playing a great match. She lost it together in the next two, losing 3-6, 6-3. At number five, Audrey Lee played a strong second set after dropping the first 6-0. She rallied back with confidence, playing her best tennis before losing the second set 7-5. Caltech's lone win came at number 1 doubles, with Petrovic/Kagawa playing a great match. They dominated the match with smart play and effective shot-making, winning 6-3, 6-2.

On February 21, Caltech hosted the Whitter Poets. In a long five hour match, the Beavers came up victorious winning 7-2. Strong singles play put CIT up 4-2 going into doubles. Number one singles, Johnson, fought hard through a tough three set match, losing 3-6, 6-2, 7-5. Petrovic, at number two, won easily 6-3, 6-3. Chang (number four) came back from the 2nd set from 1-4 to win 7-5 after a first set win of 6-2. Lee (number five), also won easily 6-3, 6-0. Johnson (number two) also came out victorious in a tough three set match 6-7 (7-5), 6-3, 7-5 (7-3). Caltech won another SCIAC match 6-3. Coach Gillam stated, "It was huge team effort from every team member. I'm very proud of what we accomplished."

On February 26, the Lady Beavers traveled to Palo Verdes to take on Marymount. Chang-Chen (number four singles) got CIT's first point with a dominating 6-0, 6-0 victory. Petrovic (number two) also won easily 6-1, 6-0. Johnson-Collins (number six) won 6-4, 6-1. Lee (number five) and Schaffer (number six) also won their singles, 6-1, 6-3, and 6-4, 6-3, respectively.

Johnson (number four) had a heartwrenching loss in three sets. In doubles, they played pro-sets with wins at number 2 and 3, and winning 6-3, 6-3. Caltech won 7-1.
The performing arts are alive and well at Caltech, with a variety of events scheduled for the months of March and April.

**March 1st**
- **Performance**: The Caltech Concert Choir will perform a concert in Beckman Auditorium, featuring works by various composers, including JS Bach and Gabriel Fauré. The choir will present a program that highlights the diverse styles and eras of choral music, offering something for everyone.

**March 7th**
- **Lecture**: "The Works of Anna Halprin" will be presented by Harry Krieger, an artist and choreographer known for her innovative and collaborative works in dance and performance. The lecture will explore the evolution of Halprin's artistic vision and her contributions to the field of dance.

**March 14th**
- **Lecture**: "Stress Management Techniques" by Jon Pedersen, a well-known stress management expert, will be held in Beckman Auditorium. The lecture will cover various strategies for managing stress in daily life, including mindfulness practices and techniques for improving resilience.

**March 15th**
- **Lecture**: A lecture on "Scheduling and Organizing" will be held in Beckman Auditorium. The speaker, a renowned productivity expert, will discuss strategies for managing time effectively and maximizing productivity.

**March 21st**
- **Seminar**: The Men's Glee Club will give its annual concert in Ramo Auditorium on the 21st. This year's performance will feature a variety of songs, including traditional and contemporary favorites, with a focus on celebrating the spirit of camaraderie and unity.

**March 23rd**
- **Workshop**: "The American Association of University Women" offers a number of workshops focusing on the empowerment of women. The workshops cover topics such as career development, leadership training, and financial management, providing valuable resources and networking opportunities for female students and professionals.

**March 28th**
- **Workshop**: "The Arts of Anna Halprin" will be presented by Harry Krieger, an artist and choreographer known for her innovative and collaborative works in dance and performance. The workshop will explore the evolution of Halprin's artistic vision and her contributions to the field of dance.

**March 31st**
- **Workshop**: "Stress Management Techniques" by Jon Pedersen, a well-known stress management expert, will be held in Beckman Auditorium. The workshop will cover various strategies for managing stress in daily life, including mindfulness practices and techniques for improving resilience.

**April 7th**
- **Lecture**: "The Coalition of Higher Education Assistance Organizations (CHAOES)" is pleased to present an opportunity for students to learn about financial aid and scholarships. The lecture will provide information on how to apply for financial aid and explore various scholarship opportunities.

**April 14th**
- **Workshop**: "The American Scandinavian Foundation" is offering scholarships for students majoring in Scandinavian studies. The workshop will provide information on how to apply for these scholarships and discuss the benefits of pursuing a degree in this field.

**April 21st**
- **Workshop**: "The American Association of University Women" offers a number of workshops focusing on the empowerment of women. The workshops cover topics such as career development, leadership training, and financial management, providing valuable resources and networking opportunities for female students and professionals.

**April 28th**
- **Workshop**: "The John Gyles Education Fund" is offering financial assistance to students who are Canadian or U.S. citizens, with a minimum GPA of 2.7 required. The fund aims to support students in need of financial assistance during their academic career, offering a range of scholarships and grants to help them achieve their educational goals.