Students want the C back in CS

Results of CS1 survey released, following discontent over department's choice of DrScheme

Have you ever wondered why all snowflakes have six sides (they don’t), or why no two many do)? These were just some and the questions answered at Ken Libbrecht’s Watson Lecture on January 17, at Beckman Auditorium.

Libbrecht, who was an under­ graduate at Caltech, is one of the founders of the science of helio­ stomology, a member of the LIGO team, and perhaps the world’s foremost expert on snow. It is probably a rare Caltech undergraduate who has not been forced to suffer through a “why water is so unique” lecture at sometime in their scien­ ce education. Libbrecht’s snow­ fall story goes all the way back to Kepler, who first pointed out that the snowflake is a simple property of water’s many weird properties.

The history of snowflakeology goes all the way back to Kepler, but it wasn’t until 1954 that Ukichiro Nakaya performed the first systematic examination of snow. Some of what he found has yet to be explained, but a lot of the answers are being uncovered by Libbrecht in a simple artificial snowflake­generator in his lab. There, great strides have been made in understanding the odd dependence on temperature and super­ saturation which results in either complex or simple snowflakes. They have also studied the quasi­liquid layer on the surfaces of melting solids (leading to many affects in at­ mospheric chemistry) and the excitation of crystal growth due to electrical voltage.

The six­sided nature of the snowflake is a simple property of the structure of ice crystals, which tend to fit a nice six­sided pattern and grow more easily along the jagged sides than the other ones. Thus, the six­fold symmetry is preserved through preferential growth.

Libbrecht also showed a slide of genuine Wisconsin snow­flakes, showing at least one twelve­sided snowflake (really more like two snowflakes which grew together) and another slide of snowflakes from Antarctica.
YOGHURT

By Don Giovanni and Donna Anna

Yoghurt will be running another contest this term for an event that brings you more culture something cool. We would come up with a new set of adjectives each week and win a guess to something in music, opera, or art. Now we will present you with the answers and winners. Thanks to all of the people who voted in to us. It’s nice to know that someone noticed, we here at the column.

It’s nice to know that someone noticed, we here at the column. As-a-Yet Other contest this term for an event that brings you more culture something cool. We would come up with a new set of adjectives each week and win a guess to something in music, opera, or art. Now we will present you with the answers and winners. Thanks to all of the people who voted in to us. It’s nice to know that someone noticed, we here at the column.

The IHC Chairman’s main duty is to preside over meetings of the Interhouse Committee, which consists of the chairman, the House Presidents, and two representatives of each house president. The IHC is responsible for appointing students to faculty-student committees (such as UASH, ASCIT, and Yoghurt) serving on various houses, and overseeing Rotation.

The IHC is also the primary means of communication between the undergraduates and the administration. There are frequent meetings with the Dean’s Office, Student Affairs, and Residence Life concerning matters of policy or other things that affect student life. Lunch at the AtH is usually included.

The most stressful time for the IHC Chairman is during Rotation. During that week, you have to make sure that there is fresh and attend nightly meetings with the house presidents, in addition to participating in your House’s rotation activities and keeping a relatively clear head. Because of this, the Chairman should be hard-working, well-organized, and able to survive on three hours of sleep each night.

Cora Elson, Current IHC Chair

McHar

Tech Editors:

“The Tech Editors’ main duty is to preside over the production of the Interhouse Committee, which consists of ads, comics, fillers, more fillers, even more fillers, some more fillers, yet more fillers, the last bit of fillers, the final segment of fillers, and the occasional news story. The Tech Editors are responsible for settling disputes between themselves and unwriting writers.

The California Tech is also the last means of communication between the undergraduates and the world. There are frequent meetings with only the editors concerning printer fails and wax shortage that concerns the editors and no one else. Lunch at the AtH is usually paid by Hall Daily.

The most stressful time for the editors is every week. Every week we have to make sure that there is fresh and attend nightly meetings with the house presidents, in addition to not failing in classrooms. Because of this, the Tech Editors should be hard-working, well-organized, and able to survive on three minutes of sleep each night.”

- Jon Foster, John Oh, Dana Sadava, Scratters No Longer Secretaries:

““The Secretary’s most viable and important task is working out the ASCII minutes for publication in the Tech each week. The minutes are included in the initial page of the ASCIT. Besides being keeper of the ASCII documents, other official duties include organizing elections with the Election Chair, updating the Tech’s web page, and communicating. This position is supportive role and the assignments change from week to week. You should be able to work well with people, be pretty well organized, and be good at taking notes. This is a very open-ended position that will become whatever you make it to be.”

- Jason Cardena, Current ASCII Secretary

The California Tech

VOLUME CII, NUMBER 13
JANUARY 19, 2001

EDITORS IN CHIEF
Jonathan Foster, John Oh
Dana Sadava

BUSINESS MANAGER
Tasha Vasesian

ADVERTISING MANAGER
Jennifer Lee

COPY EDITORS
Editors-at-Large: Kendall Richer
Photographers
Steve Winton
Contributors
Brenton Lie, Tasha Vasesian, James Mitchell, Kenneth Kuo, Jennifer Lee, Chad Stiles
Technology Chairman
Lukas Davis

ART DIRECTORS
Jon Foster, John Oh

PHOTOGRAPHY DEPT.
Brenton Lie

PUBLICATION STAFF
Kevin Vasesian, Rich Kenney

ARTS AND LITERATURE DEPT.
Brenton Lie, Tasha Vasesian

LETTERS DEPARTMENT
Brenton Lie, Tasha Vasesian

BUSINESS DEPT.
Jon Foster, John Oh

ADVERTISING DEPT.
ADVERTISING DESK: (626) 395-6153
ADVERTISING EMAIL: advertisingdesk@ugcs.caltech.edu with the body of the message: Please use the following format: "ASCIT ads" (without quotes)

FOOTNOTES
1) Ludwig and his Immortal Blazing Light was accompanied by Ludwig van Beethoven. After Beethoven’s death a letter was found among his papers. The letter had never been sent, but was treasured by his friend, the conductor "Enthusiastic Beloved." Beethoven scholars have continued to speculate on who the woman could be. Maynard Solomon believes the woman (once thought to be born Antonie von Birkenstock (she was big into sandals, I think)."

2) Clara and Robert. Clara and Robert Schuman are, quite possibly, the most romantic story in classical music. Robert Schuman was a struggling composer studying under Wieck. He fell in love with his teacher’s daughter, Clara. Clara was a virtuoso pianist, who was already gaining international fame. Her father opposed the match, saying that Schumann was a drunk and a syphilitic (which he was.) Schumann eventually took the matter before the courts and re-...
Guests: Mike Schein
Salinger's
about it, I guess I'll tell it to you.
10:12
It's not like anything terribly
exciting happens at these weekly
BoD meetings. But it's been
new Director for Social Activi­
ting in the Coffeehouse.
That'll really increase their busi­
ness.
Eric says there are fewer and
fewer people coming to Friday
morning donuts, which stinks
since he's got to drag himself out
of bed at six in the morning to
get them. Chris says there's usu­
ally a lot of lemon-filled donuts
left over. I don't get that.
Lemon-filled donuts are one of
my favorites, much better than
those crummy apple fritters that
are just brown piles of apple
crap.
Another thing we did last
week was to audition these
speakers we were thinking about
getting for the Screening Room.
Eric, me, and our audio consult­
ant Hsiang Huang went to this
audiophile store, GNP, to give
them a once over. If there's one
dent a parking space. It's a good
time. Laura suggests sending
email every day they're late.
It even has
a computer checkout system too.
Meghan still hasn't gotten rid
of the damn ASCIT van. Every
time she talks to the guy in
charge of selling it, he always
says he's still trying. Still trying

---

**Please see Minutes on page 5**

---

**ASCIT in the rye**

**A.S.C.I.T.**

**Minutes**

JANUARY 15, 2001

Present: BoD + Ted - Emma;
Guests: Mike Schein
Written in the style of J.D.
Salinger's *Catcher in the Rye*.
Meeting called to order at 10:12 pm.

General Meeting
If you really want to hear
about it, I guess I'll tell it to you.
It's not like anything terribly
exciting happens at these weekly
BoD meetings. But it's been
new Director for Social Activi­
ting in the Coffeehouse.
That'll really increase their busi­
ness.
Eric says there are fewer and
fewer people coming to Friday
morning donuts, which stinks
since he's got to drag himself out
of bed at six in the morning to
get them. Chris says there's usu­
ally a lot of lemon-filled donuts
left over. I don't get that.
Lemon-filled donuts are one of
my favorites, much better than
those crummy apple fritters that
are just brown piles of apple
crap.
Another thing we did last
week was to audition these
speakers we were thinking about
getting for the Screening Room.
Eric, me, and our audio consult­
ant Hsiang Huang went to this
audiophile store, GNP, to give
them a once over. If there's one
dent a parking space. It's a good
time. Laura suggests sending
email every day they're late.
It even has
a computer checkout system too.
Meghan still hasn't gotten rid
of the damn ASCIT van. Every
time she talks to the guy in
charge of selling it, he always
says he's still trying. Still trying

---

**Please see Minutes on page 5**
ASCIT Election 2001

ASCIT President

Garrett Heffner

Pasadena, January 19 — Playboy
Magazine editor Hugh Heffner has
promised to reverse the male-female
ratio at Caltech. His nephew Garrett,
pleasedly surprised by the news, was
quoted as saying that he would do his part to fulfill Hugh's dream by serving as
ASCIT President. Voice your support for Hugh's plan and vote for the younger
Heffner.

ASCIT Vice President

Joe Fassler

Two years ago I was the
Blacker BoC rep,
and for the last year,
I've been a part of the
Conduct Review Com-
mittee (CRC). As a
member of both groups,
I gained experience in
dealing with cases, and
I also saw a big differ-
ence in the way the two
 groups are run. Having made these observations, there are several ways that I hopeto improve the BoC's handling of cases. Among these are (1) taking an approach that is less formal and intimidating, (2) discouraging the occasional club-like atmosphere among members of the Board and (3) handling cases in a timely manner as possible. Most importantly, however, my goal is to help ensure fairness and respect to everyone, in the routing of cases to the appropriate bodies and in investigations, preliminary and full. Whether or not you like the BoC is completely up to you, but I want to make it a student body that is not feared or despised but worthy of your trust.

Martha-Helene Stapleton

You'd think after a year on ASCIT, that
I'd want out, but even when the other BoD
members would lock me out of meetings,
I still came back in the name of all froshies
and pre-froshies. I think I'd have a lot to
contribute as ASCIT president. As a mem-
er of four houses (Fleming, Dabney, Rud-
dock, and Lloyd), I feel I'm representa-
tive of a lot of people and approachable. I
want to improve the way ASCIT serves
you, and yes, I have a car for those lovely
6:30 am Friday drives to Donut Man.

This Tuttle administration has brought a great many improvements, including the
ASCIT webpage and bookmark, the DVD library and screening room, no more lame ASCIT parties (remember the pre-fresh weekend carnival... come on, who doesn't love the bouncy castle?... Anyway, I don't want to see all that effort and enthusiasm go to waste. As FDAL, I learned what worked and what needs to be done still, and it takes a president that's enthusiastic about the job to do that. Please vote, and good luck to everyone.

No

Vote for the one in the know, the perennial favorite, the undisputed master of apathy, and the true guiding force behind Caltech.

It's a clear choice. Yes or No? And I think we all know what the responsible choice is. So come election day, take a stand, and vote for no. Or, stay in bed and vote for me by not showing up.

Jacob Zasada

The primary job of the ASCIT Vice Presi-
dent is to uphold and maintain the Home
System among undergraduates. The exist-
ence of the honor code is one of the de-
eming qualities of the intense, high-stress
academic atmosphere at Tech. In order to
ensure the continuation of the honor sys-
tem, students must choose a BoC Chair who
they think will keep the system strong for
all of us.

I have the experience and dedication necessary to do the job. After serving one
year as the Ricketts BoC rep, I am, in general, satisfied with the administration of
the policy. However, there is room for improvement. The honor code is an agree-
ment between all members of the Institute: students, staff and faculty. The honor
code should be applied in a manner such that no group can take unfair advantage of
another.

One example of unilateral application of the honor code that I am opposed to
is the use of in-class testing by some professors on this campus. This not only portrays distrust of the students by the professor but is also a violation of the honor code itself. As your BoC Chair, one of my goals will be to speak to professors and the administration to be certain that an atmosphere of trust is maintained throughout the Caltech community. Additionally, I would like to take steps to lessen the cloaking of secrecy that surrounds the BoC. In particular, I would like to draft a bylaw that
ensures the disclosure of the number of cases heard, as well as the number that were
ruled in dismissions and conviction each term in the California Tech. In addition, I believe that the attendance records for each house rep should be reported so
that the house members can be certain that those who were elected to represent their house and its views are present to do their jobs.

Most importantly, as your BoC Chair I will always be open to feedback for those that I serve to make sure that the honor code and the integrity of the community is upheld.

Thank you,
Jacob Zasada
CONTINUED FROM PAGE 3 after half a year, for Chrissake! Sell the lousy van, already! Thinking that the van will never be sold makes me really depressed.

MINUTE:

be sold makes me really de­
pressed. asking if they ever got their
check his records and Martha­
Helene will email the current
Jamroom manager.

about our Spring Break plans.

though the stuffwe bring up can
get pretty interesting. Like this
talking about how it really an­
time, Sean is talking about how
he's going to Ireland over the
foreign words and phrases with the
good old-fashioned bar
houses, to get them up to the
noys him how some people feel
funny thing to get all worked up
a little offended though.

changes to make on the student

on the Renovation Committee
are Chris
and Laura Elliot. They haven't

is yet.

We're going to extend the
signups for CRC Chair until
Monday, January 22 at 10 pm,
because so far no one's bothered
to sign up. I guess you can't re­
ally blame them. It is a tough
job. Much harder than just writ­
ing about some lousy meeting
every week. We're putting up
signups for CRC student repre­
sentatives, also until Monday,
January 22 at 10 p.m.

In conclusion, the BoD will be
happy if the President gets the
parking space, ASCIT is not
bankrupt, the elections go
smoothly, the ASCIT lights are
taken care of, the Big T comes
cut, the Screening Room is
opened, the CLUE comes out, and the
ASCIT van is sold.

That's what happened at the
meeting. I guess I could tell you
a little more, but I don't feel like
it right now.

Meeting adjourns at 11:29 pm.

Respectfully submitted,

Jason C. Cardena

ASCIT DESCRIPTIONS:

continued from page 2

Director for Academic Affairs:

“Director of Academic Affairs chairs the Academics and Re­
search Committee (aka ARC), whose purpose is to serve as a
student advocate for issues pertaining to academics at Caltech.
ARC Chair appoints the secretary of the ARC. The ARC chair,
secretary, and the house reps interview and appoint three ARC
reps at large at the end of the second term.

“The responsibilities of ARC include the CLUE. ARC does
not directly administer the CLUE, but they are responsible for
appointing and checking up on the CLUE editors. During the
third term each year, ARC opens nominations for ASCIT Teach­
ing Awards and reviews the nominations. The selected nomi­
nees are awarded at the end-of-year faculty meeting. ARC last
year prepared a successful luncheon prior to the award ceremony
with the awardees, student nominators, and a few key school
administrative figures.

“Also during the third term, the ARC interviews and appoints
student members to academics related Student-Faculty Commit­
tees, which are Academic Policies and Curriculum, Educational
Outreach, and Faculty Advisor Committee. Ideally, the ARC
should meet frequently with the student members of these stu­
dent-faculty committees and other academic committees such
as the curriculum committee. ARC should be kept informed of
pending policy decisions and potential problems by getting
monthly reports from these committees.

“Besides these obligations, Director of Academics Affairs
should set up his/her own agenda. This past year the ARC con­
ducted a survey for the CSI curriculum. It also made a roster of
upperclassmen advisors who volunteered to help the freshmen
throughout their first year to select their electives and options.
Right now it is seeking for a faculty member or an organization
that will help the ARC achieve its continuity by guiding the new
ARC to the issues that the old ARC addressed and did not finish.

- Emma Kang, Current Director for Academic Affairs

YOUGHURT:

continued from page 2

“composed” such works as
“Breakfast Antiphonies,” “Fan­
fare for the Common Cold,” and
the “Toot Suite.”

Aside from this the LA Phil­
harmonic is playing this week­
end. And after the Saturday con­
zert the pianist will sign copies
of his all Liszt CDs. Surpris­
ingly, the concert includes works
by Liszt: Piano Concerto No. 1
and Totentanz for Piano and
Orchestra. Along with Prokofiev
(Symphony No. 1 ("Classical
Symphony") and Debussy (La
mer) it should be a smashing
good time. Unfortunately, you
have to choose between the
signed CD and the Pasadena
Symphony which is playing
Rossini's overture to his opera
La Cenerentola (Cinderella),
Mendelssohn's Symphony No.
3, and Prokofiev's Violin Con­
certo No. 2. The web site de­
scribes Jennifer Frautschki, the
Prokofiev-solist, as a Pasadena
native. For us her we might re­
ognize her better as the daugh­
ter of the MOSH. Student tick­
et are available for both events
($10 LA, $6 for Pasadena I be­
lieve) and Jennifer, if you’re
reading this, break a leg.

Caltech Jazz Bands
in concert!

Live! Action Figures playing real jazz music!

When: who cares?

Where: Hummm, good question

Why: It beats studying and it is free!

Who: your friends

What to listen for: Miles Davis, John Coltrane,
Leslie Praygel, George Gershwin, and of

course, proper intention

OK....Here is the skinny...
Saturday---January 20, 2001
8:00 PM
Beckman Auditorium
Free, yeah, really.....
DILBERT® by Scott Adams

I'D LIKE YOU TO MEET OUR AD AGENCY'S CREATIVE TEAM.

I DON'T THINK WE'RE READY FOR THAT YET.

THE AD AGENCY

IS IT WISE TO INSULT ALL OF THESE MINORITY GROUPS IN OUR COMMERCIAL?

THE AD AGENCY

I'VE ALREADY SOLD TEN MILLION OF THESE PER YEAR, AND I'LL JUST MAKE THEM BETTER.

THE 'EXACTLY' MAN

OKAY, I'M NOT EVEN SURE THAT WAS A HUMANOID RESPONSE.

THE 'EXACTLY' MAN

EVERYTHING YOU SAID IN THE MEETING WAS LUGAR. HERE'S THE PROOF.

THE 'EXACTLY' MAN

 THIS WOULD BE THE CASE. BUT IT'S LIKE SARCASM.

THE STICK MAN RUNS THROUGH A FIRE AND GETS EATEN BY A GIANT WOLVERINE.

WOLFIE, WHAT ARE YOU DOING HERE?

THE AD AGENCY

DOES OUR COMPANY HAVE TO SPIT ON 'DIFFICULT CLIENTS' LIKE THIS?

THE AD AGENCY

THEY DESIRE A LITTLE MORE RESPECT FOR THEIR IDEAS.

THE 'EXACTLY' MAN

WE'RE ALREADY A WHOLE MILLION DOLLARS IN THE HOLE, AND WE STILL HAVE TO PAY YOU.

THE 'EXACTLY' MAN

EXACTLY!!

THE 'EXACTLY' MAN

EXACTLY!!

EGG DONOR NEEDED.

Couples seeks egg donor with 1420 SAT or 33 ACT, 18-28 yrs old, 5'4"-5'10", attractive, athletic and healthy. Grandparents European and at least one Jewish. Compensation is $25,000. Email photos and scores to nancykp9@aol.com

New Delhi Palace

Restaurant of the Year

Cuisine of India

Specializing in Northern Indian Food

Lunch Buffet

Monday - Friday

$5.95

$6.95

Take Out & Catering

New Delhi Palace

931 E. Colorado Blvd. - 2nd Floor
Pasadena, CA 91101
Tel. 213-465-4959
Fax 213-477-2060

LAEMMLE THEATRES

PLAYHOUSE 7

Mandarin Cuisine & Seafood
Cocktail Lounge

Lunch Specials $6 11:30 - 3 p.m.
Early Bird Specials $6 3 - 7 p.m.
Classic Dinners 3-10 p.m.

Food To Go Welcome
OPEN 7 DAYS
Tel: 449-8018
2475 E Colorado • Pasadena
Between Sierra Madre Blvd & El Adobe Dr.
Free Parking In Rear

January 19, 2001

6

The California Tech

Comics

FoxTrot by Bill Amend

WOW, YOUR IDEA WOULD BE A HIT, SURE...

BUT NOT AT THE COST OF OUR RATING.

IT'S NOT AN EXACT SCIENCE.

THE MEETING WAS A HUMANOID.

THE AD AGENCY

IS IT WISE TO INSULT ALL OF THESE MINORITY GROUPS IN OUR COMMERCIAL?

THE AD AGENCY

WHAT'S THE WORST THAT COULD HAPPEN?

THE AD AGENCY

IS IT WISE TO INSULT ALL OF THESE MINORITY GROUPS IN OUR COMMERCIAL?

THE AD AGENCY

THE STICK MAN RUNS THROUGH A FIRE AND GETS EATEN BY A GIANT WOLVERINE.

WOLFIE, WHAT ARE YOU DOING HERE?

THE AD AGENCY

DOES OUR COMPANY HAVE TO SPIT ON 'DIFFICULT CLIENTS' LIKE THIS?

THE AD AGENCY

THEY DESIRE A LITTLE MORE RESPECT FOR THEIR IDEAS.

THE 'EXACTLY' MAN

WE'RE ALREADY A WHOLE MILLION DOLLARS IN THE HOLE, AND WE STILL HAVE TO PAY YOU.

THE 'EXACTLY' MAN

EXACTLY!!

THE 'EXACTLY' MAN

EXACTLY!!

EGG DONOR NEEDED.

Couples seeks egg donor with 1420 SAT or 33 ACT, 18-28 yrs old, 5'4"-5'10", attractive, athletic and healthy. Grandparents European and at least one Jewish. Compensation is $25,000. Email photos and scores to nancykp9@aol.com

New Delhi Palace

Restaurant of the Year

Cuisine of India

Specializing in Northern Indian Food

Lunch Buffet

Monday - Friday

$5.95

$6.95

Take Out & Catering

New Delhi Palace

931 E. Colorado Blvd. - 2nd Floor
Pasadena, CA 91101
Tel. 213-465-4959
Fax 213-477-2060

LAEMMLE THEATRES

PLAYHOUSE 7

Mandarin Cuisine & Seafood
Cocktail Lounge

Lunch Specials $6 11:30 - 3 p.m.
Early Bird Specials $6 3 - 7 p.m.
Classic Dinners 3-10 p.m.

Food To Go Welcome
OPEN 7 DAYS
Tel: 449-8018
2475 E Colorado • Pasadena
Between Sierra Madre Blvd & El Adobe Dr.
Free Parking In Rear
SNOW:
which showed a whole bunch of identical snowflakes. They key to the truth "no-two-alike concept" is that crystal growth is extremely sensitive to temperature and supersaturation. As crystals fall through the atmosphere they experience thousands of condition changes, and that the chance any two would follow exactly the same path is infinitesimal. As the South Pole however, the atmosphere is far more static—very cold and dry. There, snow crystals tend to be cylinders or plates (one of the fancy ones you see on Christmas cards), and this simplicity leads to many identical snowflakes.

Sorry.

The science is all very applicable to things like "self-assembly" and "carbon nano-tube arrays" but even Libbirecht admits that by now they’re really just playing around. "At this point we’re no longer doing science—this is artistic expression." You can see their latest efforts to create "the world’s best man-made snowflakes" at http://www.its.caltech.edu/~atomic/snowcrystals/

NAPSTER:
contined from page 1
webpage).

ITS is also concerned about its capability to allow increasingly high network utilization.

“Access [rates] to commodity internet are usage-based" said John Dundas, Director of ITS. "If actual usage exceeds our budget allocation, we may need to limit or throttle traffic.”

ITS has received formal complaints from outside organizations regarding Napster-related issues but does not foresee a need for a formal policy or statement in the near future.
Mints

ANNOUNCEMENTS

H&S Division offers the following Selected Topic and New Course for winter term 2000.

Law 133 Business Law and Ethics

This course provides an introduction to modern business organizations, from both the legal and social-scientific points of view. First we will examine the basic principles of a legal system, and the agencies that control relationships of the business organizations, from both a legal and economic standpoint.

Economics

This course provides an introduction to the mathematics of modem organizations, the economic environment, and the factors that determine the prices of goods and services. We will then explore the governance of modem organizations, including shareholder suits, proxy contests, shareholder voting, and the threats of regulatory intervention. We will also examine two problems: 1) what is being measured, and why should a system of measurements be prevalent in society? 2) In certain conditions, a quantum system is not being measured, the other system is being measured? 2) In certain conditions, a quantum system is not being measured, the other system is being measured?

One rule applies when the system is not being measured, the other when the system is being measured. This raises two fundamental questions: what is measurement, and why should a system behave differently when it is being measured?

1) The standard formalism for quantum mechanics includes two different rules for the evolution of a physical system. One rule applies when the system is not being measured, the other when the system is being measured. This raises two fundamental questions: what is measurement, and why should a system behave differently when it is being measured?

2) In certain conditions, a quantum system is not being measured, the other system is being measured?

Science, Ethics, and Public Policy LEcTURE SERIES Winter Quarter 2000:

- The William and Myrtle Harris Distinguished Lecture in Science and Civilization presents the following lectures:

  - Dr. Ute Diechmann, Genetics Institute, University of Cologne will discuss The Slow Start of Molecular Biology in Post World War II Germany: The Impact of the National Socialist Science Policy. Thursday, February 1, 2001 4:00 p.m. Room 25 Baxter Building.

- Dr. David Rowe, Professor of History of Science and Mathematics, Mainz University, Senior Fellow, Dibner Institute will discuss Einstein's Enemies. (German Antirelativists, 1914-1920. Thursday, February 15, 2001 4:00 p.m. Room 25 Baxter Building.

- Dr. John D. Norton, Professor of Philosophy of Science, University of Pittsburgh will discuss Einstein and the Canon of Mathematical Simplicity. Thursday, February 22, 2001 4:00 p.m. Room 25 Baxter Building.

The Caltech Balroom Dance Club presents a Professional Scholarship Ball held on The American Electroplaters and Surface Finishers Society (AESF) is offering scholarships to upper class undergraduate and graduate students who are interested in careers in the surface finishing field. Applications are available in the Financial Aid Office. Please send completed application materials to: AESF Scholarship Committee, American Electroplaters and Surface Finishers Society, Central Florida Research Park, 12644 Research Parkway, Orlando FL 32826-3208. Entries must be submitted to the AESF Scholarship Committee by April 15, 2001. 

The National Institute of Health scholarship program, the Undergraduate Scholarship Program for Individuals from Advantaged Backgrounds (UGSB), targets students who are committed to pursuing careers in health research or basic biomedical science research. For further information and an application to go to the Internet site at: http://www.nssh.org

The American Society of Naval Engineers sponsors a scholarship program to encourage students to enter the field of naval engineering. Programs of study which apply to the diverse field of naval engineering include architecture, marine, mechanical, civil, aeronautical, and electrical engineering, and the physical sciences. The deadline for receipt of scholarship applications is Feb. 15, 2001. Call (703)836-6727 if you have any questions about this program.

The Korean American Scholarship Foundation (KASF) is accepting applications for its 2002-2003 academic year. Applicants must be U.S. citizens; have a 3.75 or above GPA; and enrolled as a COHEAO member school; must be entering their sophomore, junior, or senior year at the member school; and only one scholarship per family per academic year will be awarded. Further information about the COHEAO scholarship is available via the web at www.coheao.com. Information and application package are available in the Financial Aid Office. Entries must be submitted by March 1, 2001.

The Danville-Alamo Branch of the American Association of University Women (AAUW) is offering scholarship awards ranging from $500 to $1,000 for female college students entering the junior or senior year for the 2001-2002 academic year. For more information and application package, please send your request with a $5.00 stamped self-addressed large envelope (9" X 12") to: AAUW-CA, P.O. Box 420, Danville, CA 94526. Entries must be postmarked by April 2, 2001.

To submit an event for the Mints, please contact mints@uacs.caltech.edu or mail your announcement to Caltech, 40-48 Atm: Mints. Submission deadline is Friday at 3:00 p.m. All other selected topic course descriptions are posted in Baxter.