

Notices

BOC REP-AT-LARGE

Applications for Board of Control Representative-At-Large have been opened to fill the current vacancy on the Board. Interested persons should submit their applications to Gordon Myers, Fleming, by Sunday, October 10.

MARSHALL SCHOLARSHIPS

The United Kingdom is offering all expenses scholarships to all seniors and graduate students who are U.S. citizens. The scholarships may be used for any university in Britain for the study of any subject for two years. Interested students should obtain an application from the campus scholarship advisor, Professor Gilbert in 104 Dabney, or any British consulate, before Oct. 22.

RAPE, TERROR, PILLAGE

Dr. Huttenback, just returned from India, will speak on the background and current status of the Indian-Pakistani conflict at 7 p.m. next Thursday, Oct. 14, in a dinner forum at Chandler.

SKIERS

If you want to take a ski trip next spring vacation, win an Inter-house ski meet, or just want to meet some other skiers, come to a meeting next Wednesday night at 7:30 in Clubroom 1 in Winnett. Interested grads are encouraged to be there.

BAROQUE FANS ARISE!

Grab your recorders, lutes and violas and come to the first meeting of the recorder club this Sunday at 2 p.m. in Winnett Clubroom 2. If you would like to play with the group but cannot attend this meeting, drop a note to Dean Ayers in Keck Lab.

FOREIGN STUDENTS

The members of the Inter-Nations Association cordially invite foreign students, research fellows and their wives to attend a reception tomorrow.

FELLOWSHIP MEETING FOR SENIORS AND GRADS

Dean Bohnenblust will discuss the general fellowship programs available to graduate students, in particular the NSF, NIH, NDEA and Woodrow Wilson programs, tomorrow at 12:30 p.m. in 22 Gates.

GET A LITTLE

Off-campus undergraduates who have not yet received their '65-'66 little t can get them from Greg Shuptrine or Eric Young in 104 or 106 Ruddock. Hurry!

NOW YOU CAN STOP WAITING

Have you been patiently waiting for a rational alternative to the YRs? Well wait no longer. The first and only organizational meeting of the Caltech Young Democrats will be held Tuesday, Oct. 12, at 7:30 p.m. Come and railroad your favorite candidate.

From the office of Dr. Robert Huttenback, genial Master of Student Houses, comes another ticket refund offer. Any Techman residing on campus in one of the seven Student Houses may apply for a refund of one-half the price of one ticket to any cultural event. By "cultural event" is meant such things as are listed in the Beckman Auditorium Ticket Office roster — not movies or athletic exhibitions.

This is a generous offer; let Teckers everywhere take advantage of it!!



—by Alfung

See the frosh. The frosh is cringing. Cringe, frosh, cringe. See the sophomore. The sophomore is worrying. Worry, sophomore, worry.

Candidate For State Lt. Governor Speaks

By Solo Meo

Mr. Robert L. Finch, the only announced candidate at present for the post of Lieutenant Governor of California, spoke at Dabney Lounge Tuesday evening on "The Components of a Winning Republican Campaign." Finch's speech was jointly sponsored by the Caltech Young Republicans Club and the California Republican League of Pasadena, but it was attended by only a handful of students, in spite of the fact that part of Finch's program was an appeal to young people.

Hard Look

Finch's subject, in view of the calamitous Goldwater defeat of 1964, was a difficult one. He got down to brass tacks, after a disavowal of the distracting off-and-on lights, by emphasizing that a prerequisite to winning any campaign is a good hard look at reality. The classical components of a successful campaign, namely a lot of money, a strong organization, and the right candidates, aren't very valuable in evaluating how the Republicans could win in 1966. His "hard look at reality," finally, amounted to calling 1966 the "year of opportunity" for the Republican Party in California.

GOP Gain

Although he admitted that the lineup in the US Senate will not be greatly changed in '66, Finch maintained that a 70-seat gain for the Republicans in the House was not only possible but a realistic goal to work for. Flattering his audience a bit, Finch announced that a Republican governor of California would be an odds-on favorite for the Repub-

lican Presidential nomination in 1968. California, he said, is a microcosm of the US in population profile; here, he stressed, the two-party system will be facing a stern test. Finch got a storm of spontaneous applause when he characterized the election: "If the Republican Party doesn't do it in California in 1966, we'll be

(Continued on page 2)

Coleman Chamber Concerts To Be Presented In Beckman

This year an entirely new season of chamber music concerts will be offered in both Beckman Auditorium and Dabney Lounge. The Coleman Chamber Music Concerts will open with the first of seven concerts featuring the Fine Arts Quartet, October 10 in Beckman Auditorium at 8:30 p.m. The remaining six concerts of the famed Coleman series will also be presented in Beckman Auditorium during the remainder of the season at the same hour.

Not to be outdone, the Caltech Chamber Music Series will begin its 16th season with a performance of the Pacific String Quartet on October 17 in Dabney Lounge. All of the concerts in the series will be presented at 8:15 Sunday evenings.

Ah, Culture

The Fine Arts Quartet, one of the leading American string quartets, is composed of artists-in-residence at the University of Wisconsin. The quartet has presented a weekly broadcast over the ABC network for the past eight years in addition to five previous performances in the Coleman Series.

The first number of the Coleman Concert will be the Mozart Oboe Quartet, K. 370. This will be followed by the Hindemith Quartet No. 3, and finally by the Beethoven Quartet in C Op. 59, No. 3.

The performance of the Pacific String Quartet will open with

Gridders Prepare For First Game

Let's go, football fans!

The Caltech Beavers open their 1965 football season by meeting the Cougars from Azusa Pacific. From all indications Saturday's game should be a repeat of last year's Beaver victory over L.A. Pacific. LAPC, having joined with Azusa, is now Azusa Pacific, and they should field a team which is strong, but certainly not invincible. The Caltech team is in excellent shape and high spirits, and is ready to trample over the Cougars. The contest should be an exciting one and a rewarding experience for Tech fans.

Snow!

In brief, our starting line-up is impressive. With both offensive and defensive teams made up primarily of seasoned veterans from last year's effort, we should be fielding our best team in many a year. This year's Beavers are fast and hard-hitting. Hard weeks of practice have whipped them into a coordinated unit. Instead of thinking too much, (a common mistake of Techmen) the grid-ders are hitting the line where they should and not where they think they should. Their blocking is crisp and in time with the plays, bringing near perfection to execution. Our linemen, Kampe, Logan, Sharman, Peters, and Myers have experience and deep insight into the matters of the

line. In short they are brutal.

The offense operates from a basic slot formation, which should be well suited to the rushing and passing talent of the team. Several new plays have been added in order to keep the Cougar defense on their toes. The Beaver defense is also operating at top efficiency. The whole squad is fast and should be able to contain Azusa with their vicious tackling. What should give Tech an extra advantage is the great depth they have. There are 45 men on the team, a number

(Continued on page 3)

New Ricketts R. A. Chosen

Allyn Davis, Caltech graduate student, has been appointed the new Resident Associate of Ricketts House. He is replacing Miles Walsh who served as R.A. of Ricketts during the past two years. Davis, who also has two years previous experience as an R.A. at Clarkson College of Technology, should be well prepared to accept both the good and the troublesome aspects inherent to the office of R.A. Walsh, a third year graduate student, was married last spring.

Davis passed his undergraduate days at Clarkson College of Technology where he was awarded a B.S. in chemical engineering. From Clarkson, he transferred to Caltech as a graduate student in June of 1964, and won his Masters degree in Chem E last spring. Davis has also been working this past summer under Dr. Corcoran and is presently aiming toward a Ph.D. in reaction kinetics.

Rotation

Noted as the only one at frosh camp with a Vassar sweatshirt, Davis may be otherwise easily mistaken for the random Caltech graduate student. He has a medium build and short dark hair.

A previous fraternity member, (Continued on page 6)

Faculty Appointments

The appointment of 49 new faces to the illustrious Caltech faculty was celebrated by a tea given by President and Mrs. Lee A. DuBridge at the Athenaeum Sunday, October 3.

Three professors were added: Dr. Robert E. Ireland, organic chemistry; Dr. Richard T. Shield, applied mechanics; and Dr. Frederick B. Thompson, applied science and philosophy.

Geomorphology

There is one new visiting professor, Dr. Herbert B. Keller, in applied mathematics, and two new research associates, Dr. Paul S. Farrington in chemistry and Dr. Octavio G. Ricardo in aeronautics.

Eleven visiting associates were appointed. They are: Dr. Claude

J. Allegre, geology; Dr. Seymour Benzer, biology; Dr. Michael Cais, chemistry; Dr. John Cushing, biology; Dr. John A. Fagerstrom, paleontology; Dr. Stanley J. Gross, biology; Dr. Kazuo Ikeda, biology; Dr. Paul C. Johnson, engineering science; Jack A. Mabbutt, geomorphology (really); Dr. Jerry B. Marion, physics; and Dr. Theodor H. H. Pian, aeronautics.

Also appointed were four associate professors: Dr. James N. Brune, geophysics; Dr. James J. Morgan, environmental health en-

(Continued on page 5)

Rebecca Penneys Comes Tomorrow

Editorials

The Truth Will Out

Now that you frosh have successfully weathered all those w letters you got from the deans and others over the summer; w that you've been suitably impressed by how cool all the profs re at Frosh Camp; now that you've had your egos soft-soaped rotation; and now that you've survived almost through initia— we don't think it would be traumatic if we were to admit at you know deep down in your heart must be true: **Tech is a k.** Here are a few reasons why:

Pasadena: offers no reason to leave the campus. Tech isn't ge enough to attract either a large intellectual community or arge commerical community. Where are all those bitchin' fee houses, taverns, and bookstores that add so much to a n's education? All we have is the Greasy, Vroman's, and key's. Whee.

Girls: Teckers spend more time thinking about getting it n they would spend getting it if there were any to be got. ry poor student here dreams of that mythical girls' school that heyday will rise on the corner of California and Arden.

Millikan Library: It's really not that bad. We have reason believe that B&G plans to paint big yellow numerals on a large e around the building, thus converting the whole mess into a nt sundial.

Saga: No one else would even dare to sell trichinosis, ptone, starch, and grease for such outrageous prices. This will brought home to you if you occasionally eat in the Greasy. a can actually get decent food there for about what you pay the Student Houses.

Ma 2: Ma5 in disguise. What the hell is a k-linear dual p? (Ask a soph; it was on this week's homework.)

B&G: Fill in the blank with their latest outrage

little t editors: The only example of ASCIT incompetency can think of.

Tuition: In 1926 it was raised to \$250 and there was a big or over it. Last year it was raised by \$225 and not a peep was rd.

PE: Someone over there must not like us. They say they in-completes in case of sickness, but we've yet to see one.

Beckman Auditorium: Some of Tech's buildings are funcal; some of them are beautiful; Beckman is neither. It is a ice to snow visitors and the good citizenry of Pasadena.

Teckers: are the biggest reason this place is a crock. They the most egotistical, obnoxious, and boorish group of people he world. They are also, as a group, the world's worst-dressed ents. President DuBridge once said ". . . we want, and the d sorely needs, the occasional genius who may lack some ial graces." That man is not occasional, he's downright nmon.

And that's what's wrong with the place. What are its good ts? Well, you get a good education.

—Bob Berry
Norton Greenfeld
Tim Hendrickson

Throbbing Republicanism

(Continued from page 1)

ering in the wilderness for g, long time."

e major change proposed by n in the Republican outlook strong appeal to the young e of the nation. He noted we will build a second Amer- in terms of population, in ext forty years. He pointed hat traditional Republican ades are alien to the people can't remember Pearl Har- the New Deal, and he T Republicanism's greatest lem as its failure to arti- an alternative to the De- ats.

e Saviors
e way Finch looks at it, e are three problem-solving ps in the US: the public sec- or the federal government; private sector, or corporations; the independent sector, or k-governmental, voluntary or- izations to solve public prob- s." He said the first third of

the twentieth century was dominated by the private sector, the second third by the federal government, and perhaps the third will be by this independent group. Examples of this last include the frontiersmen banding together to rebuild a burned barn and mothers clubbing together to watch over their children at play.

The candidate hinted finally that young people today are fighting the encroachment of the federal government, and he urged that the main pillar of a Republican platform be based on keeping the local government in the picture of problem-solving. After the speech, he called for unity in the national and state Republican parties, and got his second burst of spontaneous applause when he called Robert Welch "an absolute ass." His final appeal was for a broadly-based Republican campaign, aiming to involve the minority groups, of late neglected by the Republican Party, in the two-party system.

Debate Squad Prepares for Early Tourney

BY FRED LAMB

The Caltech debate squad has been brightened this year by a large influx of eager and talented frosh, many of whom have actually had previous forensic experience. Three returning upper-division debaters and nine freshmen attended the annual Pacific Southwest Collegiate Forensic Association Fall Clinic, held at Pierce College last Saturday.

The morning events consisted of explanation and criticism of sample oral interpretations, orations, and impromptu, expository, and extemporaneous speeches given by students. After lunch a short analysis was given of this year's national collegiate debate topic, "Resolved: that law enforcement agencies in the United States should be given greater freedom in the investigation and prosecution of crime."

Police Brutality

This was followed by a debate on the topic between last year's second-place team in the National Westpoint Tournament, Doug Foerster and Mike Jones of Redlands, on the affirmative, and the fourth-place team, Larry Stein and David Kenner of USC, on the negative.

Caltech will enter the debate lists for the first time this year at Cal State LA on October 15 and 16. Already five teams from Caltech have been entered, with Dave Close and Fred Lamb, Kermit Kubitz and Nick Zabitchuck slated to go in upper division, while Gary Cable, George Jackson, Mark Jackson, Mike Nolan, and Dave Perasso will compete in lower division. Lamb and Kubitz will also give orations. The large number of entries is in marked contrast to recent years and promises increased interest and success for the Caltech squad.

Happy Birthday!

BY ROUSE

This week is the eighth anniversary of the launch of Sputnik I. In due celebration of this event, the Caltech Space Patrol may resume operations on the roof of Chandler Dining Hall. Hopefully they will be able to grind out their own predictions, rather than rely completely on outside information.

This year they are going to stress observing for the fun of it, as many satellites have interesting tumbles and flashings to look for. The Space Patrol will also do useful work, which is sent to various agencies, but this aspect of the job takes care of itself.

Science?

Presumably, members will be trained in the use of the equipment, and then turned loose to do what they want. Predictions for interesting objects will be prepared and given to members who are interested in them.

Anyone who would like to know more about this most disorganized of all campus organizations should see Al Harris, 212 Ruddock, or call John Rouse at 799-9098.

Stevens Announces Big T Journalists

The staff for the 1966 **BIG T** has been announced by Tim Stephens, Editor of the yearbook. York Liao will be Photography Editor with responsibility for all photographic operations. Staff photographers include Steve Creekmore, Al Williams, and Jules Kline.

Section editors will be Ben Dembart, sports; Dave Shirley, seniors; Stu Davey, activities; and Bill Broste, Student Houses. All of these men have shown a broad interest in campus activities, and are well qualified to edit their respective sections.

Business Manager for 1966 is George Sharman, who will be responsible for advertising sales as well as maintaining financial records.

Here's the Pitch

There are still opportunities for

those wishing to join the staff, however. Photographers and typists are especially needed, and the position of Faculty Editor has not yet been filled.

Freshmen are welcome — this is a good chance to become familiar with the **BIG T** with a small amount of effort, and qualify yourself for more responsible positions in future years. Anyone interested in working with the yearbook is encouraged to see Stephens in 51 Blacker.

The 1966 **BIG T** will again be published by Yearbook House of Kansas City, Mo. The book will feature full color end sheets, a specially designed cover, and a spring supplement covering year-end events. Said Stephens, "We hope to produce a first rate annual which will not only catalogue the year's events, but will also capture the feeling of life at Tech. We plan to meet deadlines and have the book in students' hands before the end of third term."

YMCA Plans Small Tours

Many look at the Tecker's apathy towards science and say, "really care." Your YMCA, however, proposes to help cure this chronic campus disease.

The Y is organizing tours of small groups of students through selected portions of research establishments. These tours will allow students to discover in depth what si being done out in the real world.

The general format of the tours will be this: Tours to be offered in the next few weeks will be publicized in the **Tech**, and a sign-up sheet will be provided in the Y office. A limit of five or ten persons per tour will be set. For small tours, transportation will be donated by someone going on the tour. On long, large-scale tours, the Y will either rent a bus or travel in caravan.

Restrictions

Please keep in mind that because of insurance and security requirements, most of these tours will be closed to non-citizens, and frequently to persons under 18.

No firm dates have yet been set, but here are some of the trip destinations planned: Edwards Air Force Base, many of the sections of JPL, and area industries such as North American Aviation, IBM, and Beckman Instruments.

Norton Greenfeld thinks Teckers ought to wear long pants and shoes to Beckman performances.

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California Tech

Published weekly during the school year by the Associated Students of the California Institute of Technology, Incorporated.

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Bob Berry, Norton Greenfeld, Tim Hendrickson

News Staff

Don Curry, Les Fishbone, Joe Jeffrey, Steve Lewis, Michael Meo, John Middleditch, Joe Rhodes

Feature Staff

Jim Austin, Editor

Steven Alfin, Frank Ettin, Ken Kamm, Wally Oliver, John Rouse, Ben Saltzer, Martin Smith, Hank Suzukawa

Sports Staff

Peter Balint, Editor

Bob Enenstein, Dave Hammond, Gary Ratner

Photographers

Bill Boyd, Kim Gleason, Robert Pelzmann

Copy Staff

Bil' Orr, Editor

Russ Craig

Business Staff

Stuart Galley, Manager

Circulation: Bob Parker

California Tech, 1201 East California Blvd., Pasadena, California 91109. Represented nationally by National Advertising Service, Inc. Second Class postage paid at Pasadena, California. Printed by Bickley Printing Co., 25 So. Fair Oaks Ave., Pasadena—SY 2-6594. Subscriptions: \$1.50 per term, \$4.00 per year. Life Subscription, \$100.00.

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Paul A. Harmon

Gridders Grid

(Continued from page 1)

which is amazing considering teams of the past. The stiff competition at all positions has kept everyone at their highest performance level.

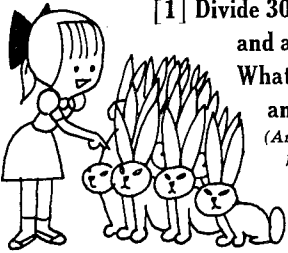
Azusa Pacific's team is much heavier than the Beavers, with three linemen around 250 lbs. and several more at 230 lbs., but their weight advantage has made them considerably slower. They also have much less experience. The Cougars operate out of a pro-type formation with a split end and a flankerback. The man to watch this Saturday will be Azusa's wily quarterback, junior Mike McKee, who called the signals for the LAPC Panther last year and compiled an impressive record.

High Hopes

Everyone associated with the Beavers has high hopes for victory in this first game. Coach LaBrucherie has commented that Caltech should have no great difficulty with Azusa Pacific. The team to a man share the coach's optimism, but they also need the support and encouragement of the student body. Put off snacking for a couple of hours and spend an exciting afternoon watching your team put out. The game starts at 2:00 p.m. at Duarte High School, which is located at 1565 E. Central Ave. in Duarte. If you wish to see a victory, be there; then you can also participate in the evening's victory celebration.

Swingline PuzZLEMENTS

[1] Divide 30 by $\frac{1}{2}$ and add 10. What is the answer? (Answers below)



[2] You have a TOT Stapler that staples eight 10-page reports or tacks 31 memos to a bulletin board. How old is the owner of this TOT Stapler?



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ANSWERS: 1. 70 divided by 2 with 10 added is 35. 2. You are 10 years old. 3. You have a TOT Stapler. 4. Which is not a bad idea at all, by the way! Next to a note-book and a pencil, it's the handiest little school item you can own!

Service League Aids Techmen

The Caltech Service League — the least known, but most valuable service organization on campus — has elected a new slate of officers for 1965-66.

In order to be of real value to Caltech students the league has established the following regular services, headed by the new officers.

Student activities chairman is Mrs. Myron Goral, 664-2702. Through her the league donates flowers for Lost Weekend, Inter-house Sing, and House Formals, furnishes chaperons for Lost Weekend and will gladly aid any social chairmen any time they need help.

Wardrobe

Wardrobe chairman is Mrs. S. C. Solomon, Hi 7-8781. Not only a lending library of formal wear, the wardrobe has a supply of slacks, sport coats and white shirts that students may take in need and keep. The key to the wardrobe is available from Mrs. Hale at Dr. Robert Huttenback's office.

Student service chairman Mrs. John Honsaker, Sy 4-2567, assists students with out-of-the-ordinary personal or financial problems.

Health center chairman Mrs. Robert Stanton, Ci 7-3827, supplies inmates with special foods, pajamas, robes and subscriptions to newspapers and magazines.

For the more prolific Techmen, well baby chairman Mrs. John Murray, 779-4223, directs free monthly shots for babies up to two years of age. Baby furniture pool chairman, Mrs. Robert Sharp, Sy 8-5504, runs the lending pool for cribs, bibs, playpens and so on for married students.

The League welcomes ideas for special projects from any Caltech students.

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Exactly one week ago today, a story appeared in this lovely bit of pulp announcing a new contest so marvelous that it defies adequate description: The FERDINAND FEGHOOT CONTEST. To date, only one Dessingerism has been received, and that not from a Techman. It seems that a random frosh left his **California Tech** in the phone booth outside the Lodge Coffee Shop. Lo and behold, an equally random employee, one C. L. Skelley, picked it up, and noted our CONTEST. His entry is as follows:

A Balkan, during the War (WWII) was fleeing from the Gestapo, and asked at the nearest house with an open door, "Can you cache a Czech?"
NEED WE SAY MORE? •



The Firebugs by Max Frisch and **The Shoemaker's Prodigious Wife** by Frederico Garcia Lorca. Two one-act plays at the Pasadena Playhouse through October 16. \$5, \$4, \$3.

This season at the Pasadena Playhouse looks like a blast, and because of **The Firebugs** it has begun with a bang.

Firebugs is what the playwright, perhaps with tongue in cheek, calls "a learning play without a lesson." It has something for everyone who has ever enjoyed anything in the theater: a Greek-tragedy-type chorus (all firemen), a human problem, tragedy, farce, abstraction, absurdity, acting, creative staging, and many

important lessons (Mr. Frisch notwithstanding). It's a pleasure to see all of this packed into a one-act fable that is both easy and fun to witness. The theater suddenly becomes much more.

The story may seem a bit absurd, but take it with a grain of salt. The town is full of firebugs who pass themselves off as peddlers, get into people's houses, and burn them. Herr Biedermann, alias Everyman, opens the play decrying the situation, but is immediately confronted by a vagrant, Schmitz, who wants to spend the night. Finding it hard to say no, Riedermann takes him in. And then it gets harder and harder to oust Schmitz; even when his friend Willi moves in, even when they bring in barrels of gasoline, even when they ask Riedermann to help measure the fuse.

The Question

The chorus asks, "He who dreads action / More than disaster, / How can he fight / When disaster impends?" And much later Biedermann asks the audience, "What would you have done? If you were in my place, for God's sake? And when? When would you have done it? At what point?" Ah, the lines! Willi admits that he's a firebug, adding that "a joke is good camouflage. Next best comes sentiment . . . But the best camouflage of all . . . is the plain and simple truth. Because nobody ever believes it." Now where in the world have we heard that before?

The Answer

Of course the house and the city burn because of Biedermann's insistence on his right not to think. What a glorious finale of smoke bombs and dog howls and firemen sirening "Woe!!" The play is a pleasure; amen.

The acting is uniformly inspired. One sample touch is the maid's delectably disgusting habit of sucking (as opposed to blowing) her nose. A touch of genius.

Now, what about the Lorca play? It's a colorful production of a pretty good play, but somewhere along the line it misses something. It took some effort to watch the show and almost none to put it down afterward. Perhaps there was too much sound and fury for the significance. In any case, it didn't fire the imagination as did the other one.

New RNA Found Bound to Histone

Biologists here at Caltech discovered a new kind of ribonucleic acid (RNA), it was announced on September 20. Dr. James Bonner and research fellow Dr. Ru-chi Huang discovered the new RNA in pea embryo cells. The complete results are published in the current issue of the "Proceedings of the National Academy of Sciences." The new RNA is linked chemically with histones, which are suppressor agents for certain RNA molecules.

Histone Repressors

Every cell in an individual's body, except a germ cell, contains the complete genetic code for reproducing every other cell in the body — blueprints for muscle, bone, blood, and all other tissues. It is the function of the histones to repress certain of these genes so that a muscle cell will only produce another muscle cell, or a tendon cell only another tendon cell. It is believed that the new RNA provides the selectivity of the histones, telling them which genes to repress.

All of the genes are contained in the nucleus, being carried in a network called chromatin. Traditionally, the histones have been removed from the chromatin by an acid. This method splits the histone from the RNA. The Cal-

tech investigators used a new technique to remove the histones from the chromatin still attached to their RNA. Their method was to centrifuge the materials in a density gradient of cesium chloride, which separates the materials according to their densities.

The histones perform their function by wrapping themselves around the specified gene. When the histone is removed, the gene resumes normal activity, thus indicating that it is completely unharmed by the histone-induced dormant period. The histones themselves are manufactured in the nucleolus, a structure in the nucleus, only at the time of cell division.

The origin and time of manufacture of histone-bound RNA are as yet unknown, but it is known that it differs from other types of RNA in composition and length of its nucleotide chain. Each molecule consists of 40 nucleotides (nucleic acid building blocks), and is unusually rich in dihydrouridylic acid. In the pea-embryo cell, each of these RNA molecules is linked to about 14 histone molecules.

The Bonner group stated that their future work will consist of conclusively proving their hypothesis about the function of the new RNA.

STUDENT GO - GO!

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TECH Sports

Probable Starting Lineup

Offense			
LE	35	Kawal, Ray	6'0" 195
LT	74	Logan, Sam	6'3" 195
LG	67	Sharman, George	5'8" 180
C	55	Myers, Lee	6'0" 194
RG	68	Peters, Arlin	5'9" 175
RT	79	Kampe, Andy	6'0" 200
RE	87	Powers, Les	5'11" 175
Q	12	Burton, Tom	6'2" 190
LH	32	Brennan, Mike	6'0" 200
RH	44	Reedy, Terry	6'0" 187
F	36	Frazzini, John	6'2" 185
Defense			
LE	88	Levinson, Rock	6'2" 185
LT	55	Myers, Lee	6'0" 194
LG	79	Kampe, Andy	6'0" 200
RG	67	Sharman, George	5'8" 180
RT	77	Powell, Howard	6'0" 190
RE	81	Wright, Bill	6'0" 180
LB	65	Ensey, Lot	5'11" 190
LB	32	Brennan, Mike	6'0" 200
H	43	McAllister, Craig	5'11" 160
H	22	McWilliams, Jim	5'9" 165
S	35	Kawal, Ray	6'0" 195

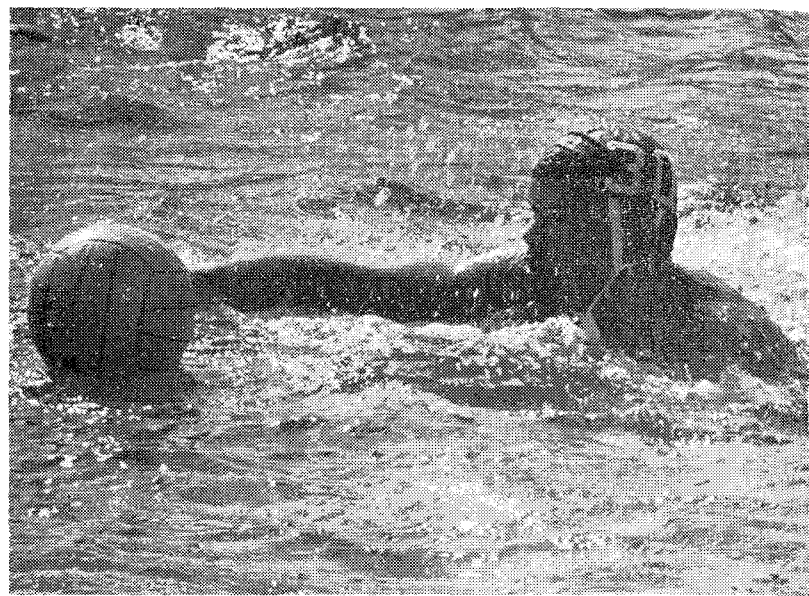
Webmen Lose Then Win One

The Caltech water polo team has opened its practice game season in preparation for its defense of the SCIAC championship. Though the team is under somewhat of a rebuilding program, it has looked strong in its first three games. The Beavers enjoyed a half-time lead in each contest, but were not able to keep it in the first two games.

The season opener was lost against Glendale by a score of 4-2. The annual game against the alumni was even closer, with the varsity coming out on the short end of a 9-8 score. The team finally found the winning combination last Tuesday and beat Mt. Sac 9-5. They are hoping that this is the start of a long win streak.

Walter-polo

In the games up to now the Beaver offense has consisted almost exclusively of John Walter and Rich Nielsen. The first two losses might be blamed on the latter's absence. Walter has been the big gunner, accounting for both goals in the opener, shooting six more against the alumni and five against Mt. Sac. That's 13 out of a team total of 19! Nielsen has contributed four more, all in the last game. The opposition has concentrated on Walter, but this has not stopped him. Beside his high scoring, he managed to foul out three opposition players from Mt. Sac as well as getting another one ejected.



by Pelzmann

Well-known, but unidentifiable water polo player poses in the middle of the Alumni game. He's quite photogenic.

Next Week's Sporting Events

FOOTBALL			
Sat.	Oct. 9	2:00 p.m.	Azusa-Pacific at Azusa
VARSITY SOCCER			
Sat.	Oct. 9	11:30 a.m.	Pomona JV at Caltech
OPEN SOCCER			
Sat.	Oct. 9	9:30 a.m.	Pomona at Caltech
WATER POLO			
Sat.	Oct. 9	11:00 a.m.	L. A. State at Caltech
CROSS COUNTRY			
Fri.	Oct. 8	4:00 p.m.	Occidental at Caltech

Soccer Starts

The high hopes of the varsity soccer team were set back somewhat by a loss to a strong team from Loyola. The game was generally dominated by Loyola, with the ball being in Beaver territory most of the time. This was the Caltech team's first game together and the players' inexperience showed. They were unable to maintain a sustained offense, so a much greater burden fell on the defense. The defense played extremely well and kept the opposition from scoring until late in the half, and then the first goal came on a penalty kick.

Strengthened by their experience the Beavers will try to get on winning ways against Pomona this Saturday. The varsity will play the Pomona JV at 11:30, the game to be preceded by a contest between the open team and

the Pomona varsity at 9:30. You can get three hours worth of very fast sports action if you come out and watch.

Attention Football Players

Who would think that Caltech was a football school? Well, apparently the Dallas Cowboys of the National Football League think so. They have sent a letter to the California Tech asking for information on any football players of pro potential who might reside among the wimps. If anyone feels an irresistible urge to be scouted by a pro scout he should bring his qualifications to Peter Balint, your glorious sports editor, in 111 Page. Come one, come all!

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CACTUS PRESS'D

CACTUS CASUALS

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Umblings Awaken erckhoff Squirrels

ckhoff Laboratory of Bio- Sciences was built in a on aeon, a decade of func- elegance, an era when e heads, massive plaster, posed beams were in style. o the floors of that edifice elegantly paved with red tiles, mortared in place a gray grout-like material. e science slithers inexorably rd, dooming even this of antiquity.

hnicians wheeling their lit- ts full of flies, rabbits, and ls from room to room are g an intolerable racket. In erbiage of B&G: "Uneven- of corridor floor tile and between tiles causes dis- ing noise when carts . . . se the floors."

s noise is seriously ham-

pering the pursuit of science. Technicians are distracted from their apparati, mathematicians throw down their computer programs in disgust, and squirrels wake up. Dr. Felix Strumwasser, Associate Professor of Biology who is studying hibernation in the furry creatures, suspects that his squirrels are being disturbed by the racket. He is now testing his hypothesis with a control squirrel in a specially designed lead-lined box.

B&G to the Rescue

But even if the carts aren't dis- turbing the squirrels, the tile floor appears to be doomed. B&G has made a thorough study and has come up with at least five different solutions. The most feasible plan is to apply a plastic reagent proof coating to the entire floor, thus hiding forever the elegance of checkerboard floor. ●

Chamber Culture

(Continued from page 1)

October 31, the Quartetto Di Roma on November 14, and later the Weller Quartet, the New York String Sextet, and a concert of violin and piano sonatas by Nelli Shkolnikova and Ljuba Edlina. The final concert of the season will be performed by the Coleman Audition Winners to be selected by the New York String Quartet.

Fifty tickets were given out to Teckers yesterday on a first-come first-serve basis at 12:30 p.m. and 4:30 p.m. at the Beckman Ticket Office. However, free tickets for the concert may still be available for Teckers. Fifty tickets will also be available for sale to Teckers at \$1, with a limit of two to a customer.

There is no charge for admission to the chamber music series in Dabney Hall.

Trojan Women Draws Full House

BY APHRODITE

Theodore Mann's production of Euripides' **The Trojan Women** filled Beckman to standing-room-only last Tuesday, in the premier of what may be a very successful season.

The tragedy made good, effective use of Beckman's facilities, especially of lighting. The music of the play (with the voice of Poseidon earth-shaker) was reproduced with great fidelity by the stereo equipment — but unfortunately, far, far too loudly.

The imaginative music (twang, bang, clong, pluck!) obscured the words of the actors, made it impossible to hear the wailings accompanying the final hair-pulling and eye-gouging, and was too loud in the front seats for comfortable listening. But this was the only apparent technical defect.

The plot of Euripides' tragedy is too simple for modern taste, requiring more recognition and reversals. The middle of the drama seems to drag between choric interludes, where excessive mourning, weeping, and wailing prevails, and the action is somewhat episodic. It is mostly in the first portion of the play that Euripides' thesis about the hideousness and pitifulness of war is fully expounded through the character of Cassandra.

The acting overall is well done. Tamara Daniel as Hecuba is quite adequate, and Andromache, played by Joyce Ebert, is well-ported during her electrifying but brief presence. The chorus — seven Trojan women strong — also does very well, including music and dance.

The messenger Talthybius — George Morgan — was weak. Although his was a bit part, Morgan didn't project during the interludes where he should have asserted himself. In fact, one could establish more empathy with Tom Sawyer as Meneleus, who should have been more evil. Helen of Troy, Dimitra Steris, was also somewhat devoid of passion — unless that was Helen, whose face launched a thousand ships. ●

Faculty Ad Nausea

(Continued from page 1)

gineering; Dr. Rangasami Sridhar, electrical engineering; and Dr. Nicholas W. Tshoegl, materials science.

Now is the time for all good men to come. Five visiting associate professors were announced: Dr. Peter Lancaster, mathematics; Dr. Rokuro Muki, applied mechanics; Dr. Warner L. Peticolas, materials science; Dr. George C. Sih, aeronautics; Dr. James Wei, chemical engineering.

New Fellows

The new senior research fellows number seven: Charles E. Billings, environmental health engineering; Dr. Arrigo Finzi, physics; Dr. Dennis Hoffman, electrical engineering; Dr. David Koelbloed, astronomy; Dr. Robert F. Landel, materials science; Dr. Ching-Shi Liu, aeronautics; and Dr. Konrad Rudnicki, astronomy.

Eight new assistant professors now grace our fair institution: Dr. John F. Benton, history; Dr. Donald S. Cohen, mathematics; Dr. William R. Cozart, English; Dr. John A. Holbrook, mathematics; Dr. Frederick H. Shair, chemical engineering, and Dr. William B. Wood, biochemistry.

Five lecturers joined the staff: Stephen H. Cain, information sciences; Dr. Albert R. Hibbs, government, Dr. Edward H. Klevans, engineering sciences, and Mrs. Anita Mason, French.

Finally, three new instructors were announced at the tea: John R. Crawford, English, Donald R. Davis, chemistry, and Roger G. Noll, economics.

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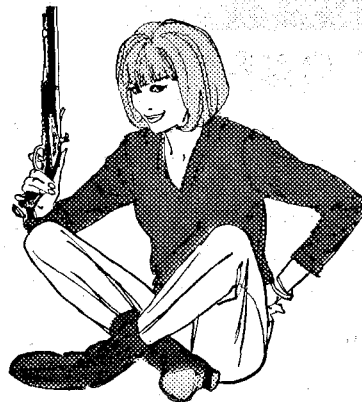
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Draft May Be After You

BY WILLIAM GRANT

The Collegiate Press Service Washington (CPS) — With the October and November draft calls the largest since the Korean War, the nation's draft boards are set to look at requests for student deferments with a more discerning eye.

Last January the total nationwide draft call was only 5,400 men. In February, it dropped to 3,000. The Vietnam crises shot the draft call to 7,900 in March; 13,700 in April; 15,100 in May; 17,000 in June; 17,100 in July; and 16,500 in August.

Then, on July 28 President Lyndon Johnson announced that a September call of 27,000 men would be necessary in order to meet the increased commitment in Vietnam.

Sneaky Dealings

Even at that time most state Selective Service men were quoted as saying they didn't feel the new figure would cause any change in the draft status of most men because "draft pools" were large enough to take care of the increased demands. In most states, draft officials were quoted, some off the record, as saying that married men with no other dependents still need not fear for the draft. Under a 1963 order by President Kennedy, married men with no children were not to be drafted as long as single men were available.

But the Defense Department announced an October call of 33,600 and recently announced its November call of 36,450 — the two largest calls since the end of the Korean War. And in November, for the first time since Korea, the draft will include men for the Marine Corps.

Some states began to backtrack on their previous statements about married men and many conceded that it would be necessary to take married men "some time in the fall."

Turnabout

On August 26, President Johnson dropped his well-remembered bombshell and announced he had revoked President Kennedy's order that from now on married men without children would be considered the same as single men as far as the draft is concerned.

Trying to beat the order's midnight deadline, young couples sought out marriage spots like Las Vegas, Nev. Some made it and got married before midnight.

But Lt. Gen. Lewis B. Hershey, national director of the Selective Service System, observed, "I believe these couples will find they didn't beat any deadline. We'll get most of them — in four or five months."

The facts remain that with the increased draft calls, local boards are rapidly running out of single men between the ages of 19 and 26 — the present induction limits — and the childless married men are next to go.

The same sort of concern has been registered among college students who fear that continued high draft calls will further deplete the draft pools and they, after the married men, they'll be the next to go.

To a degree, they're right.

As one Selective official points out, "There is nothing automatic about a student being deferred. Each case is considered on its own merits with the student's course of study, its importance to the national interest, and the student's scholastic ability" being used as measuring sticks.

The same high official suggested that as the quotas rise (or even if they stay at the present high level for some extended period of time) and the age of the draftee drops, boards probably will not be able to give deferments for longer than a year. **Beware!**

"This would cover a man in his senior year or probably could be extended in order to let a junior finish school, but it probably would not let the 19 or 20 year-old sophomore finish college before being called for military duty," he said.

He said any student who received an order for induction while in school might be given

a I-S classification that would allow him to finish that school year before reporting for duty.

The first thing likely to happen is that probationary or borderline students will lose their deferments as they did during the Korean War. This means draft boards could require a student to meet certain academic levels in order to retain his deferment. **Grads, Too**

The graduate student's chances of completing his studies before service vary. The state director of Selective Service for Maryland said in a recent interview that graduate deferments were considered by local boards but that deferments were given after asking if the student's studies were serving the national interest, health, or safety. The Maryland director, Brig. Gen. Henry C. Stanwood, said he felt the requirement could be interpreted to mean that science, math, and medical students were favored.

(To be continued next week)

Beckman Adds New Projector, Lights, and Leap

R. C. Poolman, head of Engineering at Physical Plant, disclosed today that the audio-visual facilities of Beckman Auditorium had been improved last summer as requested by the Beckman Planning Commission. It is expected that the Auditorium, which has been in operation for two years, will better be able to handle a varied schedule of events as a result of these improvements.

A new motion picture projector with a xenon lens will put a brighter image on the screen than has been available formerly, so that the house lights can be turned up higher during movie sequences. In this bright new world it is hoped students will take notes on what they're seeing.

Additional stage lighting of various and sundry function has also been installed. Even a patch panel, a switchboard for elec-

Ricketts Raunch

(Continued from page 1)

Davis feels that the Student House system at Caltech is "better in the sense that nobody gets left out, and no one really knows what his order of choice was." In contrast to this, he observed that in many of the fraternities which he was acquainted with, everyone knew pretty much his own number on the house preference list. The other good point about our system is that the rules of rotation and the method of choice make it so that the "most financially successful fraternity (House) doesn't (necessarily) come out on top. The system guarantees a fairly good randomness of choice."

About life at Caltech, Davis notes that "in Tech the average frosh is average or below average socially and Tech doesn't help him."

trical circuits, is now available. With a patch panel, the 12 or 15 dimmers can be effectively inserted into the 160-odd circuits in Beckman without a soldering iron. Finally, a walkway and grid have been mounted above the stage, at last providing stage-workers with a suicidal leap.



FLASH ONE—TWO—THREE—FOUR BEFORE CHANGING

What new development will make indoor photography four times as much fun for the nation's millions of camera fans? The new Blue Dot Flashcube, developed by GT&E's Sylvania subsidiary for use with the new Kodak Instamatic cameras.

Pop one on and you're ready to take four flash pictures without changing bulbs!

The Sylvania Blue Dot Flashcube revolves after each shot, bringing a fresh Blue Dot flashbulb into position, with its own built-in reflector.

With this latest of many important innovations from GT&E, millions of home photographers will get the great shots that used to get away while they were changing bulbs.

The Sylvania Blue Dot Flashcube is another example of how GT&E keeps growing through constant research and swift response to the changing needs of the public.

If you're looking for a young, aggressive company with no limit to its growth, you may wish to view GT&E in the light of your own future.

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