

Student Invasion Saturday

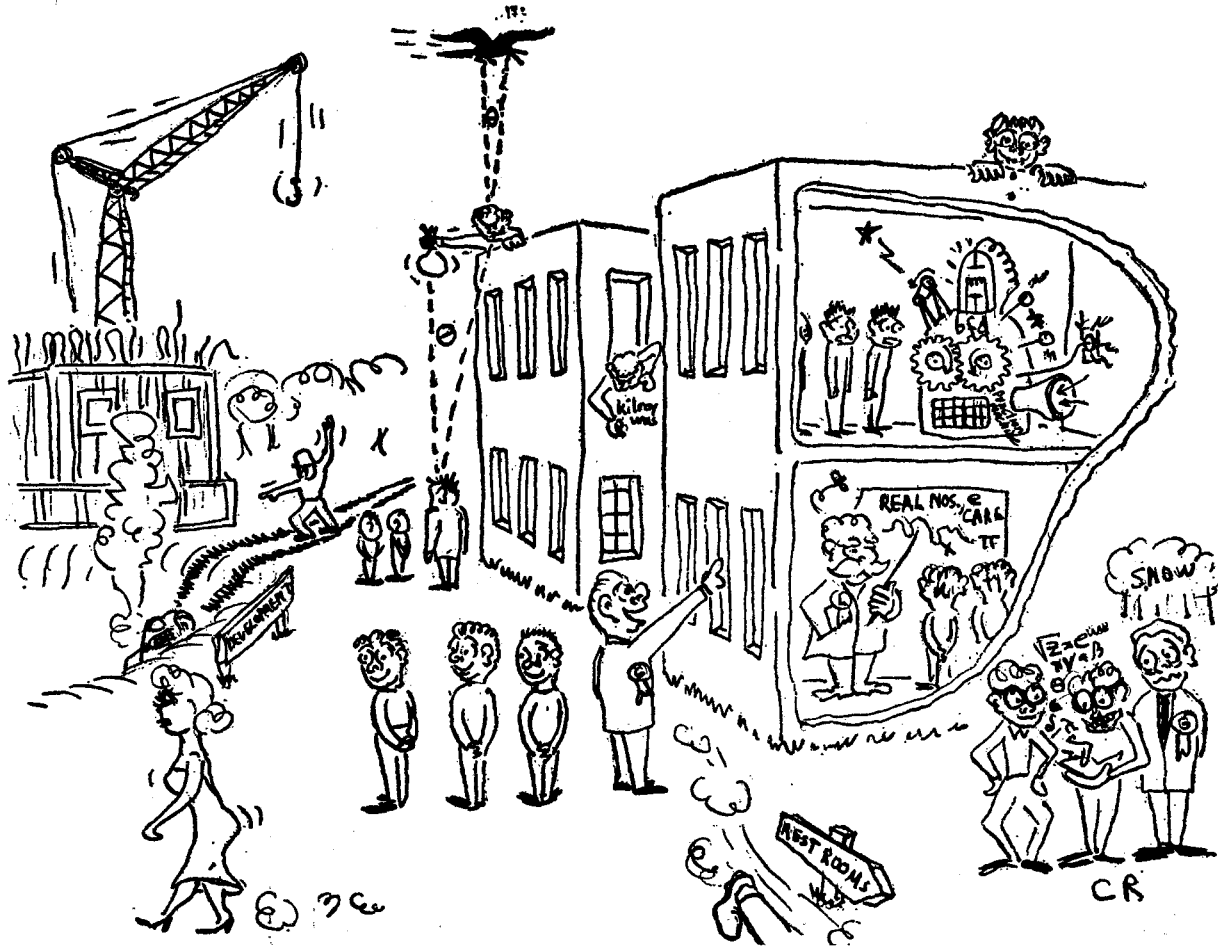
Speaker Wants Education For New Nations

BY JAY LIPPMAN

On Tuesday, November 21, Djahngir Boushehri spoke in Dabney Lounge on the subject of monetary prerequisites for economic development. Mr. Boushehri is head of the Middle East Department of the International Monetary Fund and was here as part of the Carnegie Lecture Series.

Although the title of his speech was "Nasser, Inflation, and the Development of Egypt," Mr. Boushehri spoke in general about the economic development of underdeveloped nations. His main contention was that the people of these underdeveloped countries must receive an economic education and learn the economic facts of life. These facts are that one must save today for bettered economic conditions tomorrow. He made the point that if we promise and give the people temporary aid today that this will not contribute to the long range de-

(Continued on Page 2)



Hi School Lads Come To Gawk At Techmen

BY J. C. SIMPSON

In order to better instill about 1100 Southern California high school students with "a little glimpse of what a center of education and research looks like," this year's Student's Day has been made more elaborate than ever.

The students, supplied by about 225 schools, will converge upon the Student Houses at 8:30 Saturday morning to register for the tours and activities of the day. The students, having been sorted and regimented, will spend the morning on tours. Caltech, as always attempting to please everyone, has provided ten wonderful and different excursions, to accommodate seven groups each. This interesting total of seventy groups will be served by eighty guides, which shows that featherbedding is becoming big on campuses too. **Ranger Rockets to Tech**

This year for the first time the synchrotron has been omitted from the list of exhibits because of new uses to which all the galleries are being subjected. Coming to the rescue, however, Jet Propulsion Laboratory is spending \$5,000 to transport an entire Ranger spacecraft to the front of Throop. Generously, they have also offered to take it back at the end of the day. There will also be a Thor Discoverer satellite in Keck. Not to be outdone, the geology department will drop a 300-pound ball 15 feet onto Tournament Park to show the uses of seismological instruments.

Physics is supplying among its exhibits one called "New Experiments in Freshman Lab", and chemistry, striking back, has scheduled an esoteric demonstration in 102 Gates, entitled "Weighing Made Easy."

Worn out by a hard morning of tours, the famished horde will descend upon the Student Houses for a cafeteria-style lunch of delicious Saga spaghetti at 12 noon. Saga will serve lunch for Techmen early, and, as a special enticement, promises something different from spaghetti lunches for under-

(Continued on page 6)

Two Win New Institute Posts

President L. A. DuBridge recently announced the appointment of Dr. Robert F. Bacher as Provost of Caltech and the election of Robert L. Minckler as Chairman of the Board of Trustees.

Dr. Bacher, professor of physics, has served as chairman of the division of physics, mathematics, and astronomy since 1949.

The purpose of the Provost, a new position, Dr. DuBridge said, is "to create a closer link between the faculty, the administration, and the trustees in order to increase the effectiveness of the Institute in the development and improvement of its academic program."

Minckler, a Los Angeles industrialist, will occupy the post vacated by the retirement of Albert B. Ruddock, who has been a member of the board since 1938 and has served as board chairman since 1954.

Faculty Fireside Features Press

The first YMCA faculty fireside of the year will be held a week from this Sunday, December 3, from 7 to 10 p.m. The fireside is a "beer-and-pretzels" type chat with a faculty member, who this time is Dr. Frank Press of the Geology Department. The discussion will be held at Al Green's house; accommodations are limited to 15 students and their dates, wives, or mistresses. Both grads and undergrads are invited to sign up for this activity at the Y office, where the address of Green's secret hideaway will be revealed.

Editorial

Quick, Look!

"In the Reptile Hall of the American Museum of Natural History, New York, there is a large habitat group representing the reptile life of the Florida Everglades. Alligators doze in a murky pond overhung with Spanish moss. Frogs of several kinds bob about in the scum around the edges. Sluggish chocolate-colored moccasins and gaudy coral snakes, among a number of species, slither around the mangrove roots. Lizards of a dozen kinds scurry along the edge of the water and up the slimy tree-trunks.

"The placard at the front of the group explains quite frankly that the chances of finding such a wide variety in one place at the same time, in the Everglades, would be negligible. The object of the group, then, is not to present an actual picture that one could duplicate in real life, but a schematic assortment in the forms of life likely to be found at a given spot over a long period of time.

"Thus it is with our Exhibit Day. We don't pretend that we are always dressed up and always running spectacular experiments in the high-tension laboratory. A visitor to the Institute on any ordinary day might possibly be impressed by the apparent lack of activity on the campus. But, while little or nothing of a spectacular nature would be visible, more important work is going on continuously. It is only rarely in the course of our ordinary routine that an experiment comes up of such a nature as to appeal to the layman. Therefore we put on Exhibit Day, when all the pyrotechnics of years are crowded into a few hours. We wish you a most enjoyable visit."

—L. Sprague de Camp
Editor, California Tech
April 19, 1929

Caltech has changed a lot since the days when Sprague de Camp was an undergrad here. You'll be seeing a good sample of the scientific change in the many exhibits and lectures scheduled. I'd like to suggest you take a look at another major difference from the Caltech that de Camp knew—the seven Student Houses.

We don't have fraternities here, nor do we have run-of-the-mill drab dormitories. The Houses play a large part in the life of most Techmen, and are pretty interesting places to visit. Try and squeeze in a few minutes in your day to see the House in which you registered. Grab a Techman and have him show you around. You'll enjoy the tour, but, more importantly, you haven't seen Caltech unless you've seen the Houses.

—molho

Notices

FALL SPORTS BANQUET SET

The annual Fall Sports Banquet will be held this Monday evening, December 4, at 6:30 p.m., at the Brookside Park Golf Club. Football, water polo, cross country, and soccer squad members (Varsity, JV, and Frosh) are eligible to purchase student admission tickets for \$1.75. Student tickets, as well as general admission tickets for \$3.50, are available in the athletic office, from representatives in the Student Houses, or from Tom Bopp, 35 Ricketts.

BAND CONCERT NEXT WEEK

The Caltech Band will present its first concert of the year a week from today, Thursday, December 7, in Dabney Hall Lounge at 8 p.m.

The program will feature works by Tschaiowsky, Gustav Holst, Cesar Franck, and many others. The fifty-piece band will be under the direction of John C. Deichman, director of the Caltech Band for the last six years.

ASCIT BY-LAWS AMENDED

The ASCIT By-Laws have been amended as the result of the vote taken on November 16. The BOC revisions have been incorporated, having received better than two-thirds of the total votes cast. Approximately 60 percent of the student body cast votes in the election.

YALE RUSSIAN CHORUS BACK?

Students interested in working on a committee for the planning of the second visit of the Yale Russian Chorus to Caltech at the beginning of third term should indicate their interest by signing up in the Y office. The committee's work will not begin until second term.

INTERVIEW DISCUSSION SET

Dr. D. S. Clark, Director of Placements, will discuss interview procedures and placement problems in a meeting next Tuesday, December 5, at 7:15 p.m. in 206 Dabney. All students are welcome.

Xmas Dance Saturday

Fun-loving students can jump on the ASCIT gravy train by attending the annual Christmas Dance, to be held this Saturday night at the plush Bel Air Hotel. One of the few ASCIT social events during the year, the dance will begin about 9 p.m. and run its course of hops, steps, jumps and cha-cha's (maybe even twists) until 12:30.

The dress for the event ("featuring a band," says Pete Metcalf, ASCIT Social Chairman) is semi-formal. The address of the hotel is 701 Stone Canyon Road, West Los Angeles.

Editorial

Spectator Sports

The football season is over, and Tech will content itself notwithstanding the lack of post-season Bowl invitations. A lot of people have worked hard since September and deserve a rest.

One would certainly be hard pressed to claim that the team had made a brilliant athletic showing, but on the other hand, one could not deny that the team made a far better showing than the spectators. The antics at the C-HM game were a disgrace to both Caltech and its students. Those same spectator antics were an insult to a team which deserved better, to those in opposing stands, who will justifiably be sick at the future mention of Caltech, and to the innocent bystanders (alumni, friends of Caltech, and even some students) to whom enjoyment of the game was denied.

The major attraction at football games, even in these jolly times, is on the field. Perhaps some fenced-off area can be provided next year, say in the end zone, for those enthusiasts who want to have a Rose Bowl Party.

Phooey!

—abell

Let's Change It

How about Beckman Auditorium? Each time the subject comes up more people seem to have violent objections to the proposed plans. Yet nothing seems to have been done in response in all the months of protest.

The major complaint concerns the interior design of the proposed building. According to reliable sources, the auditorium will be unsuitable for dramatic productions by virtue of its having no suitable stage, no lighting provisions, and no curtain. It would be unsuitable for musical performances because of the acoustics which accompany the novel round design.

The limited uses that the auditorium would have (speeches, movies) makes one wonder if it is worth expending the money for it. Why not take the trouble to modify the plans before we're stuck with an unused barn?

—abell

REPORT FROM THE U. N.

Nehru Takes Stand

BY BOB KOH
AND ROGER NOLL

NOTE: This is the second in a series of three articles by Caltech's delegates to the CCUN conference held recently in New York.

Most of the 1300 delegates to the Collegiate Council for the United Nations conference came waiting to be awed by Prime Minister Jawaharal Nehru of India and they were probably not disappointed. The slightly-built leader of the free world's most populous nation led a most impressive entourage of Indian dignitaries through a standing ovation by the delegates to the speaker's platform and left 90 minutes later after re-affirming his policy of non-alignment for India with a warm personal touch.

Trailing Nehru to the dais were his nephew, B. K. Nehru, Indian Ambassador to the U. S., Foreign Secretary Dsali, First

destroyed in nuclear war," Nehru stated what he considered the two major problems of Secretary of the Indian Embassy Rai and Consul General S. K. Roy. The Prime Minister specifically requested the scheduling of this appearance with students among the two dozen speeches, nine press conferences and two hours of network television time that he packed into his first visit in the U.S. in five years.

The formal address part of the appearance was devoted to a special appeal to American youth. The longer question-and-answer period prompted Nehru into discussing his concept of neutrality, reasons for differences in Indian and U.S. thinking and the United Nations' role in promotion of general disarmament and world peace.

Proceeding from the major premise that "we are not first

(Continued on page 3)

LETTER

Real Cheerleaders Explain Absence

Editors:

We feel that the student body and especially the football team deserves some explanation of our part in the activities at the Harvey-Mudd football game. We, along with a large part of the student body, believe that the whole affair was in very bad taste. Though we must accept part of the responsibility, the fault was not entirely with us. We were approached by a member of the student body who explained that his House was planning a social event in conjunction with the football game and had planned a slate of activities to take place during the game. These activities were to include card stunts, special yells, and pom-pom girls from Occidental. They also explained that House cheer leaders had worked out activities and it all seemed well organized. For this they requested our sweaters. At the time we assumed that their motives were to promote spirit at the game and were otherwise legitimate. On this basis, since we ourselves had no special plans, we consented, thinking that it would be in student interest.

We regret that things were not as we presumed, and sincerely apologize to the football team for our negligence.

Jon Kelly

Wendell Mendell

Boushehri

(Continued from page 1)

velopment of the country.

This point of saving today and educating the people caused a greater reaction among members of the audience than any other point. In the discussion following the speech Mr. Boushehri was confronted with phrases like "depriving the deprived, grinding the face of the poor," and "having your cake and eating it too." His universal answer was the education of the people to the fact that they must have less today in order to have more tomorrow. His answer was the same when confronted with the question of the communists promising the people relief today: educate the people.

Mr. Boushehri's economic contentions were for price and monetary stability, governmental laissez-faire, and a concentration of savings to facilitate investment. The chairman remarked at the end of lecture that Mr. Boushehri was writing a book which he thought should be entitled "The Wealth of Nations, Volume II." This facetious remark gives one a good idea of the content of Mr. Boushehri's lecture for his ideas did have a great similarity to those of Adam Smith. He said that individuals should develop the country, but during the time that they were unable to do so that the government must take the initiative.

Me made some passing remarks about economic conditions in the United States. He attributed U.S. agricultural price supports to an inefficient capital market and unemployment to the immobility of labor.

He brought out the fact that we must look at the underdeveloped countries in the context of their "climate of opinion." The tremendous desire for economic development, the impatience and seeming ingratitude

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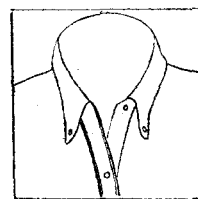
frets and frails
Folksingers Smash Jack Ash

BY JOHN D. CROSSMAN

There have been many controversies over the John Birch Society. The folksingers, who are more often than not pretty liberal, have adopted this song sung to the tune of "Abdul Abul Bul Ameer" (See the "New Song Fest" if you are hazy on the tune.)

THE JACK ASH SOCIETY

1. A bunch of jack ash-es at large in this land,
Have suffered a terrible fright,
They looked under their beds and discovered such Reds,
As Allen and Milton and Dwight.
2. If more you would know of this Jack-Ash credo
See the blue book, the black book, the white;
If you do you will find we're all Reds of some kind
Like Allen and Milton and Dwight.
3. Joe McCarthy is dead, so Jack Ash instead
Leads the anti-communist fight,
U. S. Reds he has found all around (179 million so far)
Including Allen and Milton and Dwight.
4. Social Security's a Bolshevik plot
Cooked up by some shrewd Muscovite.
So go naked you must or be a security risk
Like Allen and Milton and Dwight.
5. Beware of good pay and the minimum wage,
It's part of the Socialist blight,
Created by conspirators bold,
Like Allen and Milton and Dwight.
6. nUnemployment insurance is another Red trick
That slipped by in the dark of the night.
So send back your checks lest you share the fate,
Of Allen and Milton and Dwight.
7. These Jack-Ashes are drawing the lunatic fringe
Assembling on the right,
Barry's their man, he has no pinkish tan
Like Allen and Milton and Dwight
8. There's a man sitting on the Un-American Committee,
He's a Jack Ash Society-ite,
I wonder what day he will send a subpoena
To Allen and Milton and Dwight.
9. The Jack Ashes say that in World War II
We should have joined with the Third Reich,
Adolph can pass their loyalty test,
But not Allen and Milton and Dwight.
10. They want us to prepare for a nuclear war,
Kill everything human in sight,
And if you'd rather live, you're a Communist dupe,
Like Allen and Milton and Dwight.
11. So all the Jack Ashes should take some advice,
Wake up and start seeing the light,
Their fuehrer may find they are Red agents too,
Like Allen and Milton and Dwight.

our man in the
Ivy Leagues

One Techman wrote to me recently: "I loved your two articles, but the columns are not quite so inspired. Still good, but not the sort of thing that makes one sit up and take notice." * Sigh! * That's the way it is in this modern age; if you want to be loved you have to be an iconoclast and go around smashing sacred cows!

* * *

After a few weeks of mild weather, the mercury took a sudden drop last week. I dropped into the Co-op (book store) to buy a pair of gloves, and the salesman remarked, "What part of the West are you from?" When I looked a bit puzzled he explained that he had had a steady stream of customers all day — all of them Westerners unprepared for New England winters. "See you again soon!" he said as I left. Wonder what he meant by that?

* * *

From "America's Only College Humor Magazine," **The Yale Record**:

"A roommate of ours was a real social demon in the old Yale Tradition. Every week-end

he would have a date — each a different girl from the previous week, and each from a different school. And every girl he took out was immediately impressed with his suave sophistication and general coolness. Perhaps our friend's greatest social skill was his ability to make any girl feel like a queen by complimenting some mildly attractive feature which she might happen to possess. His repertoire ranged from 'Your sparkling eyes are the lights of my soul' to 'I'm in love with your charming knees.' He was a snowman in every sense of the word.

"One week-end, however, he met his match. His date was six and a half feet tall, larger than any of Yale's tackles, muscular, with a broken nose which adorned her poorly complexioned face. In short, there was nothing attractive about her, and our roommate was poorly concerned that he would be unable — for the first time in his long social career — to compliment a date. All week-end he sought one attractive trait in her, but could find none. At

(Continued on Page 7)

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a hand of BRIDGE

BY DAVID SELLIN
AND BILL TIVOL

NORTH		EAST	
S—2		S—Q 6 5 4	
H—4		H—A K J 6 2	
D—A Q 10 5 3 2		D—7 6	
C—A K 7 6 5		C—9 2	
WEST		SOUTH	
S—A K 10 8 3		S—J 9 7	
H—Q 9 8 5		H—10 7 3	
D—K		D—J 9 8 4	
C—Q J 4		C—10 8 3	

East-West vulnerable. South deals.

South	West	North	East
5 Diamonds	Double	Pass	Pass

Opening lead: 5 of Hearts

This week we consider a defensive convention: the unusual two no trump overcall. West opens the bidding with one spade. North has a hand whose values are highly distributional. His hand is strong offensively in a contract in either minor suit, but is virtually worthless defensively against a major suit contract. North wishes to overcall naming both his suits at once, a bid which is normally impossible. The unusual two no trump overcall is such a bid. It promises, in this case, at least five cards in each minor suit, and it asks the partner of the bidder to take out in his longest minor. East attempts to give his partner as much information about his hand as possible by bidding three Hearts. South, realizing his hand is defensively worthless against any contract, attempts to shut out his opponents by bidding five Diamonds. The shutout works; West can only double, partly on the strength his partner is showing him.

The play is simple; South loses one Spade, one Heart, and one Club. East-West score 100 points for the set, whereas the Spade game is worth 620 points.

Had North merely overcalled two Diamonds, South would have been unable to bid since he cannot know the full distributional value of the North hand.

The two no trump convention is a semi-preemptive bid showing five-five distribution or better. If a major suit is opened the five-five is in the minor suits; if two suits have been bid, the five-five is in the unbid suits. The responder to the no trump bid is in a position to decide whether to sacrifice or try to reach a makable contract, since his partner's hand has been accurately described to him.

U.N. Report

our era: (1) how to achieve a peaceful and free world and avoid mutual destruction; (2) how to advance our political thinking at a pace equal with our technological progress.

Nehru contended that disaster looms unless we adjust our political thinking since "there are now common world problems without united action." Terming it an "extraordinary state of affairs," he noted how every country shouts naturally against war yet by a "peculiar destiny, we are driven toward the possibility, although not an inevitable one, of war." In all communications, only the "shady aspects of life makes news," in all speeches threats and insinuations of military action are prevalent; even in the UN, "petty national problems are discussed." He asked the students to realize that militarily there are no solutions, other than total destruction, of world problems and it is more difficult now to coerce even small nations by power. U.S. students, living in a society that is the prime proponent of the new technological age, bear a greater responsibility to chance the climate of international thinking by discovering "non-violent attitudes, mentally and physically, towards solving world problems."

He cautioned the students to temper their efforts with at-

tempts not to excite envy since the "reaction of affluence among poor people is not good" and therefore "the U.S. operates at a disadvantage." "There is a tendency of the U.S. to judge everyone by its own yardstick," he said, "but you must learn the varieties in the world."

Six questions chosen as representative of the many submitted prior to the speech were asked of the Prime Minister.

In reply to a question calling for his definition of neutralism, Nehru argued that neutralism semantically means non-belligerent but "the use of the word in times of peace is odd." India thinks of herself as not passive but rather as militarily non-aligned since "military alliances have done definite harm without much good. Non-aligned countries help create an atmosphere of removal from military approaches and if there were no neutral nations, conflict would become more imminent."

He impressed the students with a curious mixture of philosophy and pragmatism in his answer to a question of possibilities of resumption of unilateral nuclear disarmament without adequate control guarantees. Quoting Gandhi that no arms are needed, he said, "if a strong country chooses to disarm, it would make a splendid example." However "due to hostile world attitudes, disarmament would be probably looked



BY JOHN BERRY

"Christmas-time is here, by golly, Disapproval would be folly, Deck the halls with hunks of holly . . . Brother, here we go again."

For those of you who need some excuse other than this sentiment so well expressed by Tom Lehrer to imbibe the spirits of the season, here are some dandy anniversaries which can be celebrated during the next two weeks: 12/1 — the Chicago Stock Show opened; /2 — the Monroe Doctrine announced; /3 — Illinois State founded; /4 — U. of Purdue Queen contest; /5 — Martin Van Buren born; /6 — capstone placed on Washington Monument; /7 — U.S.-Africa air-mail service opened; /8 — American Farm Bureau Federation formed; /9 — William Henry Harrison born; /10 — less than 14 shopping days to Christmas; /11 — Bank Moratorium called; /12 — American Pioneers Bridge Tourney played; /13 — Annual Hoosier Dinner.

The most famous spirit of the season is, of course, the Ghost of Christmas Past, but next only to it is the Tom and Jerry, or possibly Egg Nog. Since perfectly good Egg Nog can be purchased, I won't enter the controversy as to which recipe is best when home-made.

TOM AND JERRY

12 Eggs

6 tbs Sugar

1 tsp Grated Nutmeg

Beat the eggs till thick and light in color. Gradually add the sugar and nutmeg and continue beating until the batter is very thick. Chill for several hours before serving. To serve put 1 tbs of batter in a warm mug. Add about 1 jigger of bourbon or rye and half that amount of rum. Fill with hot milk or boiling water. Stir and serve with a light grating of nutmeg on top.

Another good hot drink is:

HOT BUTTERED RUM

1 twist Lemon peel

3 oz. Rum

1 stick Cinnamon

1 or 2 Cloves

Place ingredients in a mug and fill with boiling water or boiling cider. Float a pat of butter on top and stir well.

on now as a trick. Partial disarmament is no answer. Wars must be abolished, even small wars." Nehru said that negotiations must be done so that "no one is at disadvantage."

Another question asking for a clarification of an earlier statement of similarities of the American and Russian peoples brought about the fuzzy Nehru optimism that tends to irritate the American press. "Both are friendly and hospitable and are concentrating on technological development. The Russians, despite political differences, are full of admiration for U.S. science. Once political difficulties are resolved, the peoples will probably come closer."

He said that in Russia there are currently greater advances
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AFROTC Unit Wants Officer Candidates

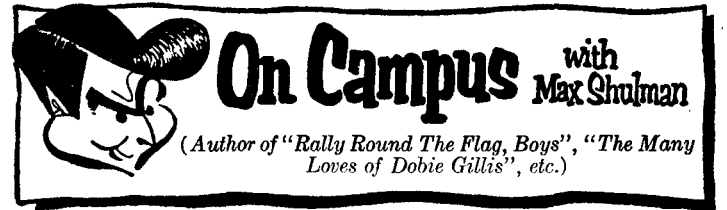
Freshman who meet entrance criteria may still enroll in the AFROTC Program at the beginning of the second term, according to Major Lorrin C. Peterson, Professor of Air Science. All freshmen who are U.S. citizens are eligible provided they are acceptable to the Professor of Air Science.

Freshmen who are interested and qualified, should enroll this week in Air Science 1b for the second term. For further information contact the Air Force ROTC.

Drama Club Will Meet, Read, Eat

Caltech's Drama Club holds its second gathering of the year tomorrow evening at 8 p.m., a "play-reading social" at the home of Dr. Ricardo Gomez. The group will enjoy coffee and donuts and informal conversation, and will read an anonymous Chinese play of the thirteenth or fourteenth century, "The Chalk Circle."

For information contact Bruce Abell in Lloyd House.



"HAPPINESS CAN'T BUY MONEY"

I have asked the makers of Marlboro—an enterprising and aggressive group of men; yet at the same time warm and lovable; though not without acumen, perspicacity, and drive; which does not, however, mask their essential great-heartedness; a quality evident to all who have ever enjoyed the beneficence of their wares; I refer, of course, to Marlboro Cigarettes, a smoke fashioned with such loving care and tipped with such an easy-drawing filter that these old eyes grow misty when I think upon it—I have asked, I say, the makers of Marlboro—that aggregate of shrewd but kindly tobaccoists, that cluster of hearty souls bound together by the profit motive and an unflagging determination to provide a cigarette forever flavorful and eternally pleasing—I have asked, I say, the makers of Marlboro whether I might use today's column to take up the controversial question: Should a coed share expenses on a date?

"Yes," said the makers simply. We all shook hands then and squeezed each other's shoulders and exchanged brave smiles, and if our eyes were a trifle moist, who can blame us?

To the topic then: Should a coed share expenses on a date? I think I can best answer the question by citing the following typical case:

Poseidon Nebenzal, a student at Oklahoma A and M, majoring in hides and tallow, fell wildly in love with Mary Ellen Flange, a flax weevil major at the same school. His love, he had



"Oh, foolish reaper! Why have you not told me before?"

reason to believe from Mary Ellen's sidelong glances and maidenly blushes, was not entirely unrequited, and by and by he mustered up enough courage to ask her the all-important question: "Will you wear my 4-H pin?"

"Yes," she said simply. They shook hands then and squeezed each other's shoulders and exchanged brave smiles, and if their eyes were a trifle moist, who can blame them?

For a time things went swimmingly. Then a cloud appeared. Mary Ellen, it seems, was a rich girl and accustomed to costly pleasures. Poseidon was bone-poor and he quickly ran out of money. Unable to take Mary Ellen to the posh places she fancied and too proud to tell her the reason, he turned surly and full of melancholy. Soon their romance, so promising at the beginning, was headed for a breakup. But at the last moment, Poseidon managed to blurt out the truth.

"Oh, beloved agrarian!" cried Mary Ellen, grappling him close. "Oh, proud husbandman! Oh, foolish reaper! Why have you not told me before? I have plenty of money, and I will contribute according to my ability."

Poseidon, of course, protested, but she finally persuaded him of the wisdom of her course. From then on they split all expenses according to their incomes. Rather than embarrass Poseidon by handing him money in public, a joint bank account was set up to allow him to write checks. Into this account each week they faithfully deposited their respective allowances—35 cents from Poseidon; \$2300 from Mary Ellen.

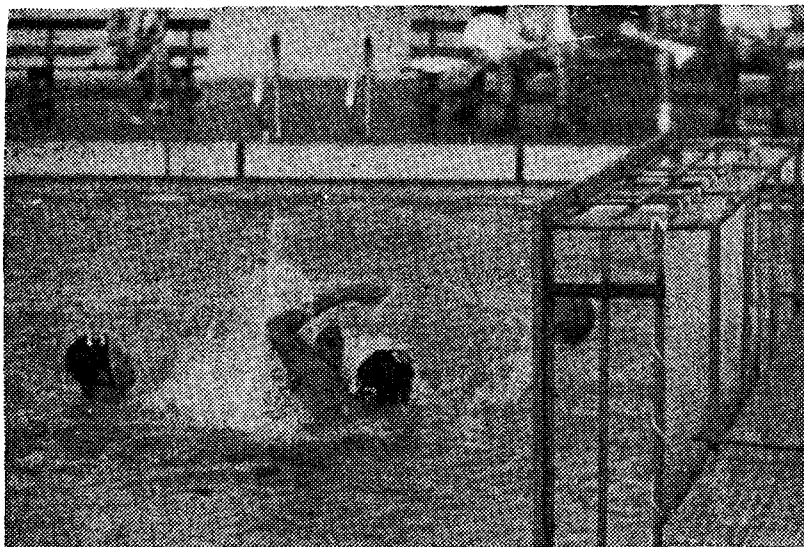
And it worked fine! They were happy—truly happy! And what's more, when they graduated they had a nice little nest egg—eight million dollars—with which to furnish a lovely apartment in Lubbock, Texas, where today they operate the local laundromat.

So you see? You too can salvage your failing romance if you will only adopt a healthy, sensible attitude toward money.

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Lucre is no obstacle when it comes to popular-priced Marlboro, or to Marlboro's popularly priced partner in pleasure—the unfiltered, king-size Philip Morris Commander. Get aboard. You'll find long enjoyment for short money.

SPORTS



—photo by Bruce Sirovich

Chesebro shows all-conference style by scoring a goal against C-HM.

Webmen Split Last Two; Chesebro All-League

It was announced last week that Bruce Chesebro, Caltech's ace forward, has been selected for the first string all-conference water polo team for the second consecutive year. The selections are made on the basis of a vote of the players in the league. Chesebro, a junior, led the Beavers in scoring with a seasonal total of 69 goals.

In the last week of competition, the water polo squad suddenly caught fire again and turned in two excellent performances as they split their last two games with Redlands and league-leading Oxy.

It was a sweet victory on Tuesday as the Beavers made up for their loss at Redlands by defeating the visiting Bulldogs 8-5. The Redlands squad took a quick 1-0 lead at the opening of the game but could not hold it as the Beavers came right back with three quick goals of their own and went on to lead at half-time 5-2.

Most of the credit for the victory must go to the very alert guarding which took advantage of the Bulldog mistakes and held down the visitors' forwards. Bruce Chesebro, the Beaver ace forward, scored all eight of the Tech goals as he brought his total to 61 for the season.

Oxy Wins 13-9

On Friday, in the season's last game, the visitors from Oxy grabbed an 8-3 first-quarter lead and hung onto it tenaciously as they defeated the awakened Beavers 13-9. It was a wild first quarter as the lead changed hands three times in as many minutes and both sides playing an all-out swimming game. The very fast reaction of the fast Oxy forwards to changes in possession of the ball gave them many of their points.

Beaver hopes were hurt badly in the second quarter when all three of the starting guards, Dave Seib, Gary Turner, and Mike McCammon had to leave the ball game. Despite their loss the Beavers played on even terms with the Tigers for the remainder of the game. Once again Chesebro was high scorer, accounting for eight of the nine Tech goals.

Outlook Bright for Next Season

The Beavers finished the

season with a 2-6 league record. This record places them in a fourth place tie with Redlands in the conference standings. Prospects look bright for next season as the Beavers lose only four seniors: Gary Turner, Gary Mitchell, Sherm Gratch, and Tom Sallee. Returning lettermen include all-conference pick Bruce Chesebro and four of the other six starters.

Dabney Wins Table Tennis

Dabney won its fifth straight Discobolus contest last Monday by defeating Lloyd in table tennis three matches to two. This win enabled the Darbs to extend their lead in the Trophy race to eleven points over their nearest competitors from Fleming.

The contest was not decided until the final match, doubles. Harold Haskins and Warren Teitelman won this decisive match for the Darbs from the Lloyd team of Bob Howenstine and Mike McCammon in two straight games 21-15 and 21-15. Wendell Mendell, who defeated Ivar Tombach 21-12, and 21-15 in third singles, and Bill Bush, who defeated Al Gillespie 21-18 and 21-13 in fourth singles, collected the other wins for the victors.

The Dabney triumph was the result of their superior depth, as Lloyd won the first two singles in the closest and most exciting matches in the series. Bob Ruddick won first singles over Ying-Bun Woo by the score of 21-14, 14-21 and 21-16. Dick Hess took second singles from Steve Bruen by the score of 21-16, 10-21 and 21-17.

The next Discobolus competition will be between Dabney and Ricketts in the sport of archery. The standings at the present time are as follows:

HOUSE	TROPHY POINTS
Dabney	15
Fleming	4
Ruddock	1
Page	1
Blacker	1
Lloyd	1
Ricketts	0

Hopes For Winning Year High As Basketball Season Opens

BY ROGER NOLL

The 1962 basketball season swings into action this weekend with a trio of non-conference games scheduled for the next five days. Friday night the Beavers journey to nearby Azusa College for the first meeting between the two clubs. Gametime is 8 p.m., Saturday afternoon at 4 p.m. LA Pacific College hosts the Beavers. Next Tuesday Caltech opens the season at home by entertaining Upland College at 4:15 p.m.

Azusa promised to be the toughest game of the three. Although their strength in basketball is not known, past experience in other sports, notably football and baseball, indicates that the Azusans nab several top high school players in the San Gabriel Valley area. Last season Azusa was one of the better independent small college teams in the area, beating Biola, LA Pacific, Upland and Southern California College.

The easiest of the three games, and possibly the easiest game of the season, will be the LA Pacific contest Saturday afternoon. In past years scheduled as opponents for the Caltech freshmen, this season LA Pacific is attempting to move into regular college competition. But the matriculation is going to be a tough one unless they can rise above their performance in a recent scrimmage with the Caltech varsity.

If last season indicates anything, the Upland game will be a close one. The Beavers beat Upland twice last year, but both games were in doubt to the end. Upland features a hustling group of short players who prove to be phenomenally hot against Caltech. This season the Beavers, unsatisfied with last year's performance against Upland, hope to play better ball against them.

In spite of the fact that Azusa might come up with a good team, the Beavers have to be favored in all three games. Caltech does not expect to be a

patsy in the SCIAC, on paper comparing favorably to most of the teams in the conference. None of these teams should be able to compete with even an average team in the conference which perennially represents the Southern California area in the NAIA tournament.

For those interested in attending the games, Azusa College is located about one mile east of Azusa Boulevard on Foothill Boulevard on the eastern side of Azusa. The college is easily spotted by a fairly large ground-level sign on the north side of Foothill and at the west end of the campus.

LA Pacific College is very easy to find—take the Pasadena Freeway until you see a sign indicating the place to turn off to the college. The exit is near the exit to Occidental.

Friday night at 8 the Caltech freshmen open their season with Rio Hondo at the Caltech gym. The baby Beavers, lacking in experience, ought to put on a hustling show against a weak opponent.

Harriers Defeat Paz-Naz; Tie C-HM; Frosh Win

In a triangular meet with C-HM and Paz Naz, the Caltech cross-country team was paced by Art McGarr's first-place performance to a tie with Claremont and a victory over the Nazarene team, on Tech's course two weeks ago.

Frosh Clean Up

Techmen won both freshman scorings, and won "over all" in a subsequent dual meet with Cal Lutheran. The freshman team has lost only one dual meet for the season, sporting a 4-1 record and a trophy from the Frosh Biola Invitational.

Spectators are expected to be in great demand at the 3½ mile hilly Mount SAC conference battle this Saturday, according to enthusiastic team members.



—photo by Jim Sagawa

Nishiyama demonstrates defense.

Karate Tourney In L.A. Sunday

BY JIM SAGAWA

The first all-American Karate Tournament is being held this Sunday, December 3, 1 to 5 p.m. at the Olympic Auditorium, Grand at 18th in downtown L.A. Proceeds go to the Muscular Dystrophy Association of America. Tickets can be obtained from any member of the Caltech Karate Club or Lester Ingber (SY 5-4662) or from the News Bureau. Participants in the tournament rank up to 2nd degree black belt. ("A Ph.D. is only slightly lower than a black belt.")

Selected members of the Caltech Dojo will participate in demonstration aspects of the tournament.

The Caltech Karate Club has 20-odd members, and affiliated with dojos in downtown L.A., Whittier, Long Beach, U.C.L.A., etc. At present, the instructor here is Hidetaka Nishiyama, a 5th degree black belt (the highest) from Japan, with Larry Shampine assisting. Lester Ingber, captain of the club, is temporarily retired.

In Japanese karate means literally "empty hand". It is a refinement of various hand and foot fighting techniques imported by the Japanese from China and Okinawa.

Anyone interested in this "gentle art" should come by the gym any day at 3 p.m. Members are only eager to discuss karate techniques with anyone they can get to listen.



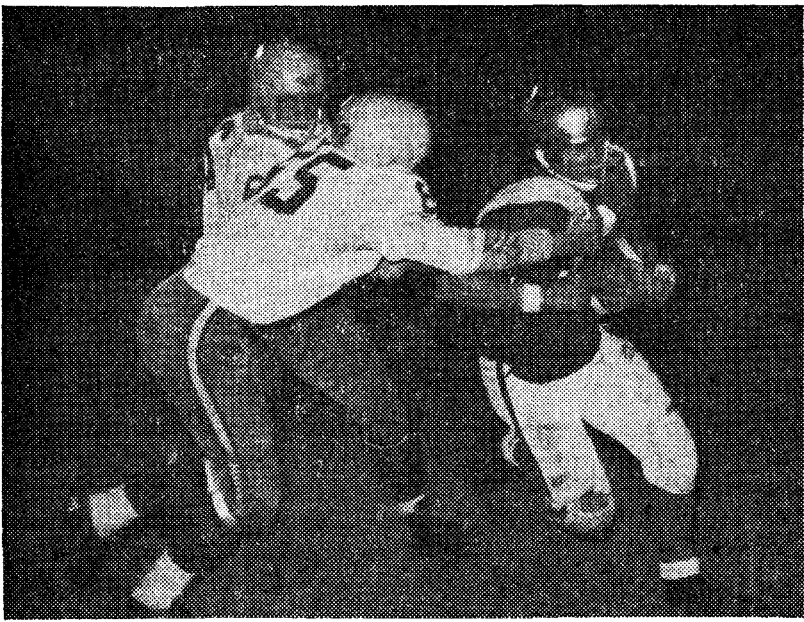
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—ARROW—

From the
"Cum Laude Collection"



—photo by Bruce Sirovich

Tom Krueger returns a kick during the Claremont-Harvey Mudd game.

Beavers Overrun By Stags In Disastrous Rose Bowl Meeting

BY GARY CHAMNESS

Caltech's Beavers made a disappointingly poor showing Saturday night as the Claremont-Harvey Mudd Stags triumphed 60-8.

There were a few bright spots. The Caltech team made 133 yards in the air to C-HM's 66, with Jack Arnold catching five passes and Frank Ridolphi two more. Ed Cline's rushing was dependable until he was hurt. Tom DeKlyen played a solid, hard-hitting game on the line, as he has all season. But Lee Peterson seemed unable to turn the corner and was repeatedly thrown back, while quarterback Bob Liebermann was dumped for a loss again and again as his protection melted and his receivers failed to break clear. Without Vince Hascall's speed, the defense seemed helpless whenever a Stag back broke through the line — and that happened regularly.

C-HM fielded some first rate football players. Fullback Bob van Marle gained a phenomenal 190 yards in twelve carries, and linemen Bill Chamberlain and Roger Williams broke up innumerable Beaver plays.

In the first half C-HM scored four touchdowns, and Jim Morrow was called in to punt no less than seven times. Only as the half ended did the Beavers pull together, first to mount a long but unsuccessful offensive and then to hurl back their opponents from the Tech goal line. The score at halftime was 28-0.

Second Half

The first Stag score of the third quarter came on a long pass. It was followed closely by three more — a controlled downfield march, an interception, and a breakthrough from midfield. As the fourth quarter opened Liebermann counter-attacked with a long pass to Ridolphi, two short ones to Arnold, and

Beaver defense and tallied another score for C-HM, making it 60-0.

Near the end of the second half the shaken Techmen pulled together for a last try. Passes to Arnold and Ridolphi put the ball on C-HM's 29 yard line and another pass to Arnold made the first and last Caltech touchdown. Liebermann swept the end for two extra points, making the score 60-8 with 23 seconds left. Liebermann kicked inside and Carl Baum grabbed the ball for the Beavers, but the game ended there.

Seniors' Last Game

Seven seniors saw their last Caltech game Saturday night. The absence of co-captains Vince Hascall and Ed Cline will be particularly felt next season. Evan Hughes and Carl Baum have been dependable starters all through their varsity years, Hughes playing an outstanding game in several positions. Geary Younce showed a lot of promise until he was sidelined with injuries, but Frank Ridolphi recovered soon enough to do good service in receiving this season. John Newmeyer, in his first year of football, rounds out the list.

another to Peterson. The Beavers were halted only a short yard from the goal. Moments later Peterson recovered a C-HM fumble on the 8, but Tech was thrown back and lost the ball once more. This time van Marle powered his way through the



Beaver Chips

By Noll

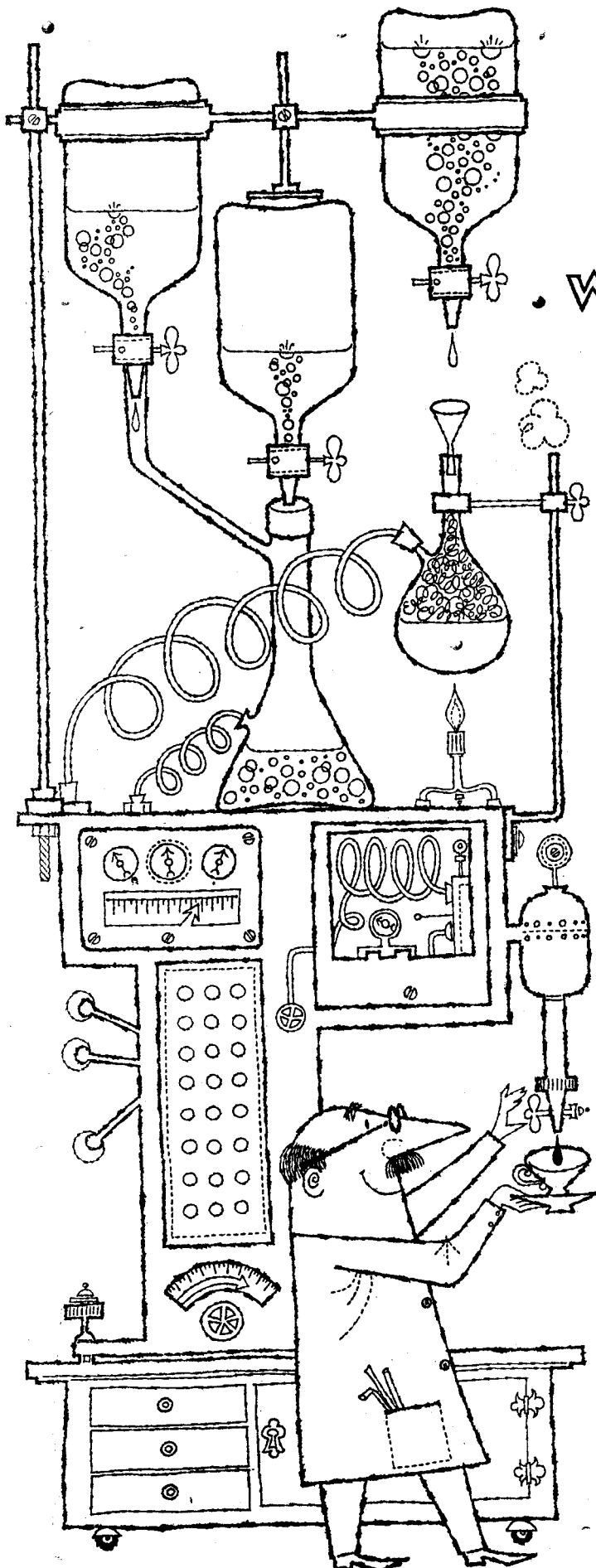
A Beaverwatcher's Guide

Even if unsuccessful, this season's varsity basketball team ought to be interesting to watch. The Beavers have come up with a new "continuous motion" offense which seems to be working quite well, especially in breaking the guards loose for easy layups. Even against Pasadena College (formerly Pasadena Nazarene—not PCC!), who played-off with Redlands last year for the regional NAIA championship, the Beavers scored consistently.

The main feature of the new offense, and the reason it is called "continuous", is that if a particular play fails, another play can be run off immediately without the players returning to their normal positions on the floor. To the sports fan this might appear to be confused scatterball what with guards playing forward and vice versa, but that is actually the way it's planned! It makes for a faster, more exciting game, for it means that every player at every moment of the play has a specific assignment and is usually moving.

Another point to watch is the Gerber Factor. Due partly to the new offense and partly to a tremendous improvement shown by the Beaver captain, Gerber ought to be the main offensive threat. Gerber has developed into a fine ball handler and driver, better in these departments than the legendary Fred Newman. Watch for Gerber to score close to twenty points a game this weekend.

The real key to success this season will be defense. In past years Caltech squads have tended to loaf half the game—the defense half. If the Beavers can overcome this, every game ought to be close. Furthermore, if the Beavers can overcome their traditional weakness in rebounding, things look bright indeed. But both of these problems remain, as yet, partially unsolved — at least in the pre-season scrimmages. It remains for the actual game conditions to see if the Beavers can make the necessary improvements.



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Dabney Wins Tennis; Lloyd Leads IH Race

In one of the closest Inter-House tennis tournaments in recent years, the Dabney netmen edged Lloyd and Ruddock to take first place. It was a three way contest all the way with Dabney scoring 46 points to Lloyd's 44 and Ruddock's 40. Fourth place Ricketts scored a distant 28 points. The tournament was so close that the final standings were in doubt until the last match had been played.

The Dabney victory was led by the first place finish of the doubles team of Art Robinson and Charley McBurney. Dave Sellin tied for second place in first singles. Steve Bruen placed third in second singles, and Warren Teitelman placed second in third singles to round out the well balanced Darb attack. Lloyd was the surprise of the tournament, finishing a strong second. Frosh Freeman Rose led the Lloyd team by taking first place in first singles.

Ruddock was strongest in singles with Dave Lischinsky taking a first in second singles, Bill Webber a first in third singles, and Art Niell a tie for second in first singles. Despite this impressive performance, the Ruddock doubles team finished seventh.

The scoring in the tournament was as follows:

Dabney	46
Lloyd	44
Ruddock	40
Ricketts	28
Fleming	27
Page	20
Blacker	19

Lloyd Takes Trophy Lead

With this strong finish in tennis, Lloyd takes the lead in the race for the InterHouse Trophy. Swimming is the next sport in InterHouse competition, and teams from all seven Houses are practicing. The qualifying meet is next Tuesday and the finals are a week from today. The standings in the IH Trophy race are:

House	Trophy Points
Lloyd	36
Ricketts	30
Dabney	27
Page	24
Ruddock	21
Blacker	9

CCUN Report

(Continued from page 3)

in living conditions and material comforts and a greater tendency towards individual freedom than in Stalinist times. "After each revolution, there is a 'toning down'. This 'toning down' took a longer time in the case of Russia but now it is happening." According to the Indian, prospects for peaceful co-existence are becoming better.

In response to a final question, Nehru expressed faith that the UN would grow into a world authority. The need for someone with recognized influence to interfere in national mis-doings and international problems is clear and the UN is the only agency with this authority and influence.

The patrician democrat left the impression that the Indian differences with the U.S. are not so much over objectives as over methods. Politics aside, Nehru himself, dressed as expected in his white achkan tunic, red rose and Gandhi cap, presented an engaging impression of a genuine world leader favorably impressed by sincere student interest.

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BELL TELEPHONE COMPANIES

Students' Day

(Continued from page 1)

grads. In return they humbly beg everyone to please be on time for lunch this year, to prevent a worse traffic jam than anticipated.

Space Lectures

After the delicious luncheon, the student guests will choose from many interesting lectures to fill the three lecture periods scheduled for the afternoon hours. In accord with present-day interests, over half of the lectures will be connected with space. Numb with the wisdom they have acquired, and impressed by the wonders they have seen, the weary students will finally journey home to contemplate the possibilities of a scientific education, possibly even at Caltech.

Undergrads desiring to serve as guides, registrars, or general nuisances should contact their House presidents. As an extra inducement, guides will be the only undergrads allowed to see the exhibits of the day. Volunteering will prevent a general draft.

Boushehri

(Continued from page 2)

of the countries is part of the spiritual and political awakening that has become a religion to people. They have a burning desire to close the gap between the standard of living of the developed and underdeveloped nations. In short, it is the urge to live that is at the bottom of the emergence of the underdeveloped countries.



Ivy Leagues

(Continued from page 2)

last, as he was putting her on the train Sunday afternoon, he turned to her desperately and blurted, 'Say, there, Hilda, you don't sweat much for a fat girl, do you?' At least the string of consecutive compliments remained intact, but our roommate has since retired to the peace of the Grace-New Haven mental ward."

Who says Techmen are different from Ivy Leaguers?

* * *

And in case you aren't convinced, I offer one more bit of evidence from the same magazine:

"A few week-ends ago, as the Yale team was driving towards a winning touchdown, we happened to notice a Freshman squirming miserably in his seat, apparently unused to the general apathy displayed by the students who surrounded him. At last, he could contain himself no longer, and, standing up, he cried a loud YAY TEAM. He was, of course, immediately hissed down."

* * *

But I think my disinterest in football sets a new record. The other day I received a letter from a girl, suggesting that we might attend the Yale-Princeton game together. In all sincerity I replied, "That sounds great. When and where is it?"

* * *

My quantum-mechanics prof spent some time explaining all the errors in Pauling's original theory of electronegativity. Then he pointed out that the corrected theory gave essentially the same answers, and with a slight pout, he complained: "I don't know how that Pauling does it! He's always getting the right answers with the wrong methods!"

* * *

Appropriate enough: "LONG-BEACH, Calif. (AP) — The city council here has voted to abandon Peace Street after the city engineer's office reported it to be 'unpaved, unused, a dead-end, and cannot be extended.'" From the *New York Times*, Nov. 5.

* * *

Since a few weeks before I left California, I have allowed myself the luxury of growing a full beard. The Director of Graduate Studies in the Education Department here has made known his displeasure with my whiskers, but only in a bantering fashion. A few days ago, however, with a certain degree of embarrassment, he informed me that since I would be representing Yale University when I went out to observe high-school classes in the New Haven school system, I would have to conform to the popular clean-cut Ivy League image. He hastened to assure me, however, "I know that growing beards is a common practice in California high schools, but it just isn't done in this part of the country."

* * *

An incurable optimist: George W. Beadle can still say — after years at Tech — "Scientists, after all, are people . . ." (From the Introduction to Isaac Asimov's *The Intelligent Man's Guide to Science*).

* * *

A true test of one's knowledge of Techese and one's pure native ingenuity: trying to decipher Brewin's at a distance of 3000 miles with no knowledge of the incidents described!



Brewin's



Football Fans Find Fun

Though Caltech received the low score at the recent Clare-munch game, the fans were found to be rabider than usual. With the help of cheerleaders from the college of the Ox, a most impressive half-time show was put on. In keeping with the mathematical tradition of Tech, a banner with the graph of the square root of the absolute value of $(\sin x \text{ over } x)$, evaluated from minus 3 pi to 3 pi, was paraded around the field on the roof of a car.

Even after halftime was finished, cheers such as those relating to the ingestion of potato chips, were proffered at intervals. Realizing that the hard-working cheerleaders might be a trifle warm after leading such strenuous yells, Rage House "Joe College Boys" thoughtfully brought supplies of water to keep them cool.

Grand Finale for evening was repeat of performance of game-winning bonfire at San Pasqual

and Chester. Fire-boys were aided by advice from Techmen and dates issued from top of Spalding.

Couldn't Have Been Much

At Llewld House "Beatnik" Booze Blast, Bashful Boy Biologist Ill Coward was hampered in scientific experimentation by unsober attentions of house-mate Beau Cellar, so retreated with sexiwench to nearby closet. Returning from 4-by-10 bridal chamber one hour later, Coward was eyed jealously by ravenous Llewldboy All Her Man. Taking situation in hand, Her Man's date drags Her Man off to self-same closet, promising to teach him *all she knew*. Returned in three minutes.

Scurve Scrunched

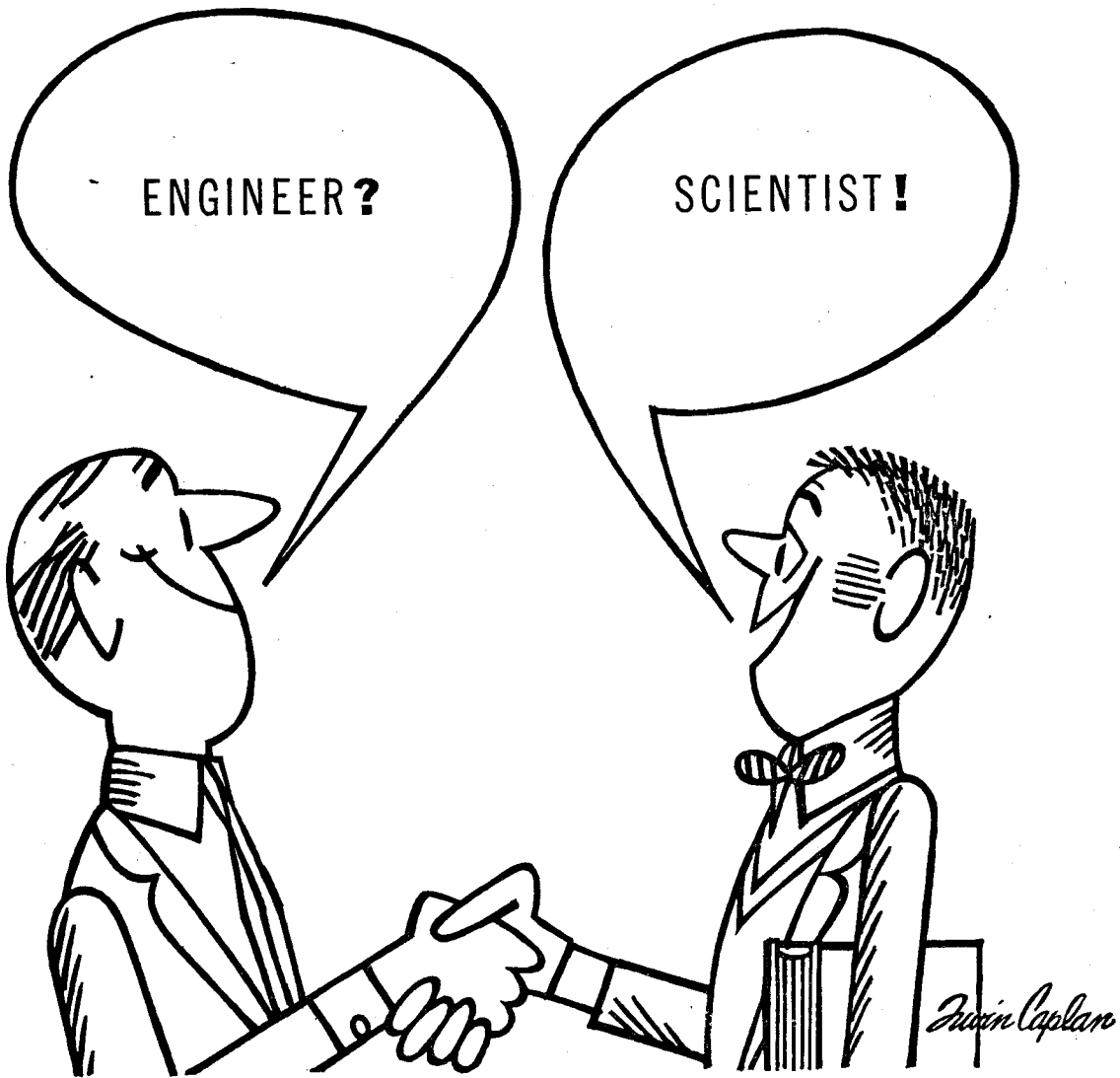
Toad reports that it is *unwise* to make loud noises at drive-in theatres. Cites own troubles as a moral example for the masses:

Attempting to clear vocal

chords after consuming quantities of a certain canned beverage, Toad finds himself surrounded by the local Gendarmarie, who frown on underage imbibing. He and date then proceed to local Bastille where our friend is advised to empty his pockets. Exposure of articles reveals a package of AVC's. Quoth officer Boor, "Naughty, Naughty."

Belt Brings Blush

Ardent Techman, who shall remain nameless and Houseless (by request) found himself falsely accused of behavior unbecoming . . . His date for the evening had gone to her place of abode, when a belt, belonging to wench's maternal parent, was found in Techman's room. Girl — and mother — are surprised to find that belt is lacking from attire. Hurried explanations and calls to Tech follow. Is wench-mother suspicious? Recent calls to girl reveal that she is not there — repeatedly. Hmmm?



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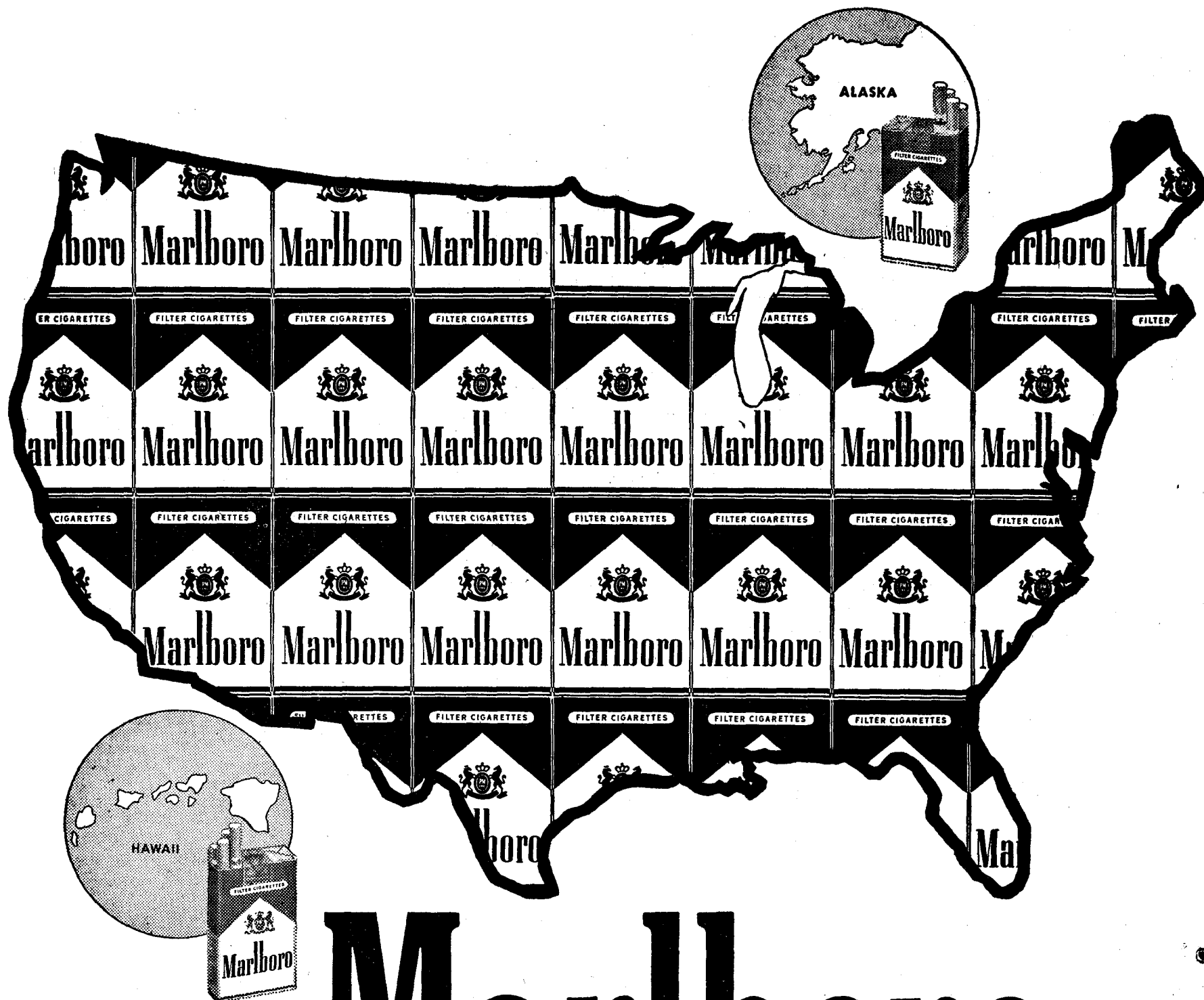
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