New faculty members will begin teaching, research duties

Locking forward to living with Caltech's academic spirit and its challenging, inquisitive student body, new faculty members have arrived to join our staff in this new school year.

Prof. John Todd and his wife, Dr. Olof Todd, are both teaching in the Mathematics Department. They, along with other new faculty members in philosophy and other departments, will be teaching in the Biology Department.

Dr. L. Slinshaker, who received his degree at MIT in biophysics, has come to Caltech from Iowa State College to continue his research work on nucleic acids in viruses. At the same time, he will teach in the Biology Department.

John Todd

Hoyle Returns

Fred Hoyle, who has been a faculty member at Caltech for 13 years, returned as Visiting Professor of Astronomy. He is also a staff member of the Mount Wilson and Palomar Observatories.

Visiting Professor of History, Dr. H. Jenson, retired last year from Wellesley College after working there for 27 years. Others include professors, instructors, seniors, research fellows, and residents, who will stay with us for one year.

61 Come, 60 Leave; 12 New

Sixty faculty members have left Tech since last June, mostly because of the termination of their contracts.

H. S. Johnson, Associate Professor of Chemistry, resigned to join the staff of UC at Berkeley. Dr. R. A. Linsley, Associate Professor of Mechanical Engineering, and some Executive Assistant in Charge of Technical Development of the Styling Section of the General Motors Corporation, have already been discharged for the academic spirit.

Besides the addition of new faculty members, twelve new laboratory assistants, secretaries, and accountants, shows about twenty new faces. They can be found in the General Library, the Biology Lab, the Chemistry Engineering Office, the Accounting Department, and elsewhere.

Frosh - girls

Sunday afternoon, October 6, at 2:30 p.m., the annual Frosh Welcome will take place in Dabney Hall lounge and courtyard. The freshmen and the faculty welcome them to the college with a dance to the music of Claude Davie and his quintet. The dance was planned by Tom Jordan and Mike Talton. Refreshments will be served.

The Student Glee Club will be conducted at 4 p.m. today in Culbertson.

Sherry Zlotnik

 Tec to host Riverside in season opener Saturday

by Steve Emmanuel

Offering some of the classiest backfields ever seen in the Southern California Conference, Caltech opens against Riverside in Townsend Gym.

Presented with the best football squad in years, both in experience and depth, Coach Bert Lahr-Wilshire has high hopes for a victorious team. Riverside players have been practicing for the past seven years, the biggest squad since 1948.

The backfield, fast and experienced, includes Dick Van Kirk, Ed Tenderich, Takido and Hal Forsen, varsity tryoutists. Takido, Krehnich, and Stocking hold All-Conference honors, Takido havinglettered on the 1955 team as a sophomore, and the two seniors playing for Uncle Sam. As in the past, Tech uses the term "line," which suits the passing abilities of Van Kirk.

The strongest point on the team is end, where senior Gene Bickel, Kendall F. Casey, and junior Fred Newman are backed by Tony Leon, Mike Milder, and Steve Overland, who halfback last year, was moved to end because of his speed and size. In the opinion of the Coach, the line needs to learn the fine points of defensive tackling.

The line is good but not outstanding nor especially heavy. Rodney Messer will probably take them on in the line, and Bickel, Dwayne, and Mike Milder will be outstanding in practice.

The league this year is expected to be good, but no team particularly outstanding. The Engineers should be all right.

(Continued on page 8)

Test dates revealed to grad students

Admission tests for Graduate Studies in Psychology, Law, and 15 other subjects will be offered on four dates during the coming quarter, according to Educational Testing Service, which prepares and administers the tests. These tests are required for admission to a number of graduate schools throughout the country; a candidate must take separate application for admission to each school of his choice, and should inquire of each whether it will administer the Admissions Test.

The Law School Admission Test will be given at more than 100 centers on November 9 in the Los Angeles area, December 17, January 14, and August 2 in 1958. Other tests may be taken on November 16, 1957; January 19, April 28, and July 12, 1958.

A Bulletin of Information providing information about colleges and administration as well as sample questions, and may be obtained from Educational Testing Service, 20 Nassau St., Princeton, N.J.

A completed application must reach the U.S. Office at least fifteen days before the test for which the candidate is applying.
Frosh views

Freshman camp

by Joel Yellin

Thursday, October 3, 1957

EDITORIAL

One hundred eighty-four “eager” freshmen, together with the usual complement of “cynical” upperclassmen and “inspiring” faculty, last week recreated the annual experience of frosh camp.

Faculty warned frosh of upperclass cynicism, upperclassmen warned frosh of the dangers of slothfulness and the daggers of the faculty, and the frosh proved themselves normal, healthy boys by engulfing themselves and ignoring the speakers.

There is nothing new about freshman camp except the freshmen; the California Tech welcomes the class of ’61.

EAGLE PENCIL COMPANY. NEW YORK • LONDON • TORONTO • MEXICO • SYDNEY • BOGOTA

You get off to a fine start (and do some fine finishes!) the drawing pencil that ranks No. 1 with professionals when you work with an Eagle TURQUOISE. This is

The pencil that’s first with professionals is the perfect pencil for you!

1. Uniform grading: you get exactly the blackness and for good reasons:

   a) a long line of unchanging width.

2. Proven needle-point strength for line after long line of unchanging width.

3. Proven smoothness—thanks to Eagle’s exclusive 100% “Electronic” Graphite. So do justice to yourself: Start the year right with TURQUOISE—get it at your favorite dealer now! Eagles are guaranteed to be uncooperative.

Eagle Turquoise Pencils, Leads and Holders are the largest-selling in the United States!

Eagle Turquoise Drawing Pencils: With 100% “Electronic” graphite. 17 grades, 6B through 9H.

Eagle Turquoise Leads: Fit any standard holder. Grades 2B through 9H.

Eagle Turquoise Cleantex Erasers: Super-soft, non-abrasive rubber.

Eagle Turquoise Cleanview Leads Holder: Hold any grade of Turquoise lead—so firmly that lead cannot be pressed back.

Eagle Turquoise Drawing Leads: Fit any standard holder. Grades 2B through 9H.
Upperclassman Jon Kelly, Dean Foster Strong and an unidentified freshman enjoy a game of mountain golf.

FROSH CAMP
(Continued from page 2)
The fact that each time the experience becomes more and more meaningful. Take it for what it's worth. Others noted at camp were Dave Kubrin, Larry Brown, and Dick Feynman (my roommate). For those who still understand little of the camp's idea and purpose, Samuel Johnson once wrote: "The seeds of knowledge may be planted in solitude, but must be cultivated in public."

Conversation overheard:
Hey, who's the cat with the bongos? Dick Feynman.
Teach here?
Yeah.
Nobel Prize?
No.
Guess it don't take brains to play a good bongo.

Most effective speech was given by frosh Yellin, deploring lack of organization in previous attempts to light Oxy bonfire. Deans were so roused they called an immediate meeting to excommunicate BOD for allowing such heresy.

Frosh Camp
(Dubridge continued his arithmetic series of frosh camp talks ("Your $600 bargain," "Your $750 bargain," with one entitled "Your $900 bargain." However, it seems proper to rejoice in this trend, as the students' percentage share is going down, down, down. Moral of speech: if you're flunking out can't afford bluebooks, be happy. The institute's doing much worse.

If you're flunking out cause you can't afford bluebooks, be happy. The institute's doing much worse.

Help Wanted!

The Caltech varsity football team came as close as they probably will ever to playing a Big Ten team when the Michigan Wolverines worked out on Tech's field last Friday afternoon before their game with SC. Bennie Oosterbaan's team no doubt sought out the Pasadena campus because of the privacy and excellent locker room facilities. Bennie's choice proved a wise one as the Wolverines beat the Trojans 16-6 on the following day.

HELP WANTED!

Sticklers are back!
Send yours in and MAKE $25

Most Popular Game that ever went to college—that's Sticklers! Just write a simple riddle and a two-word rhyming answer. For example: What's a big cat shot full of holes? (Answer: peppered leopard.) Both words must have the same number of syllables—bleak freak, fluent truant, vineyard siren. Send Sticklers, with your name, address, college and class to HappyJoe Lucky, Box 67A, Mt. Vernon, N. Y. Don't do drawings! We'll pay $25 for every Stickler we use in our ads—and for hundreds that never see print. While you're Stickling, light up a Light smoke—light up a Lucky. You'll say it's the best-tasting cigarette you ever smoked!

Sticklers are back!
Send yours in and MAKE $25

Most Popular Game that ever went to college—that's Sticklers! Just write a simple riddle and a two-word rhyming answer. For example: What's a big cat shot full of holes? (Answer: peppered leopard.) Both words must have the same number of syllables—bleak freak, fluent truant, vineyard siren. Send Sticklers, with your name, address, college and class to HappyJoe Lucky, Box 67A, Mt. Vernon, N. Y. Don't do drawings! We'll pay $25 for every Stickler we use in our ads—and for hundreds that never see print. While you’re Stickling, light up a Light smoke—light up a Lucky. You'll say it’s the best-tasting cigarette you ever smoked!
Inflation - Causes and Cures

**The Outside World**

by Al Carlin

As the student body learned last Monday, prices are going up. Curiously enough, the recent Caltech tuition increases have paralleled similar increases in the national economy recently. Labor Department statistics show that prices took a marked upward turn near the beginning of 1956 and have been going up ever since despite increasing Federal Reserve discount rates. This appears to be due primarily to increased farm prices, which doubled between the middle of 1956 and have continued to rise since then. However, when farm prices began to recover in 1956, prices took a noticeable jump.

Inflation is, in the current inflation, it is necessary to inquire into why industrial prices took a marked upward turn in 1956. There are two obvious possible explanations, increased wages and increased profits. Both exhibited a remarkable increase during 1955. Total non-agricultural wages have risen 26 percent most notably in manufacturing and retail trade, but not as much as wages increased new higher wholesale prices. It is difficult to blame raw materials—those with low labor costs—since they show slightly lower prices on the average, but show higher and higher comparative prices at each succeeding stage of manufacture, so that the wholesale price index for "finished goods" is 18 percent higher than it was 10 years ago.

The question of corporate profits is even less clear cut; for who is to decide what a proper return on investment should be? First of all, profits themselves have no natural standard by which to pass wage increases along to consumers. Certainly wage increases cannot be justified as mere productivity increases; Labor Department statistics show that total non-agricultural wages have risen 26 percent more than productivity in the last decade. It is difficult to blame increased wages—those with low labor costs—since they show slightly lower prices on the average, but show higher and higher comparative prices at each succeeding stage of manufacture, so that the wholesale price index for "finished goods" is 18 percent higher than it was 10 years ago.

**The Bull Pen**

by Ford Holtman

Now that rotation is with us in all its partisan fury, it might not be amiss to stop and consider the purposes of all this rigmarole. The most obvious purpose is to fit each freshman into the House whose personality is most congenial to him. But, while this may be the most obvious purpose, it is not completely achieved, nor is it vital that it should be. In two weeks' time all the freshmen and the Houses can do is to give each other the non-over and trust in their skill in seasoning observations with appropriate quantities of salt. Usually they succumb to the influence of inertia; last year only 20 percent of the freshmen left their original Houses.

**The Daily Californian**

I am not saying that freshmen frequently fail to end up in the best Houses. The entire question of a "best House" is rather fictitious. By the end of the term almost every freshman will be convinced that, by the grace of providence, or his own wits, or God, or whatever you please... he has managed to join the best House. You can fit into all the Houses, or else you cannot fit into any of them. None of the Houses has such a set personality that a reasonably sane freshman cannot adjust to it and the House to him.

**The Grey Flannel Suit**

To tell the truth, I have thought those two "purposes" for rotation just to say that, though they may seem to be amuse juction for rotation, they really are not. In a term's time nobody will notice the difference between the best House and the worst. I can see that in a term's time nobody will really care whether or not the Houses were united. The real reason for rotation is not very glamorous, but very true. It is, very simply, to teach us how to live, create unanswerable justifications, cast exagerrated aspirations, and in general to trounce friend and foe alike for the benefit of ourselves and for an organization with which we have cast our lot. And since most of us are going to spend a good portion of our lives doing these things, it's about time we had an opportunity to practice the most subtle and most sublime art of shooting the bull, and to evaluate our mistakes. Anyone who finds himself in any sort of executive position is going to have to be a graceful hypocrite. And though hypocrisy may not be very inspiring or delightful, I'm afraid it is here to stay. We came here for a higher education in order to learn some of the facts of life and how to deal with them.

**ASCIT starts photo division**

ASCIT President Richard Kirk has given Dennis Faull and Barry Young permission to proceed with plans for a campus Photography Division, pending approval of the Board of Directors. Little doubt was expressed that the proposed measure would be approved.

Schmus revealed that the plan will combine campus photographic talent and equipment into a single organization partly supported by ASCIT funds. This organization would provide photography for campus publications, and news releases on an order basis and maintain a catalog file of all pictures.

Schmus, charging that the old system of obtaining photographs is haphazard and wasteful of equipment, time, and money, claimed that the new Photo Division would effect an increase in speed and as much as fifty percent savings in cost.

**The Flaxen Arrow**

"Pretty soft!"... new Arrow Cambridge Cloth

This new Arrow University-styled shirt is a delight blend of the old and new... traditional styling in smart new feather-shot Arrow Cambridge Cloth. Now, this cloth has become as popular as our famous Oxford cloth. Collar buttons down, front and center back.

Men's, tailored body and sleeves fit smooth and neat, without bunching. Full length box-pleat in back. Your favorite colors in solids, checks, pen-line stripes. At your Arrow dealer's. Shirt, $5.95; Tie, $2.50.
Beavers seek winning season

by Dave Singmaster

For the first time in over twenty years or so, Caltech has a chance of breaking even or better in varsity football. Tech faces four league rivals and four non-losers, with UC at Riverside here Saturday afternoon for the season opener.

UC at Riverside

Riverside promises to be an easy game with Tech favored. This is Riverside's third year of varsity intercollegiate football and they have not had time to develop a strong team. They beat Cal Baptist, a very weak team, 31-0 last week.

Redlands

Redlands is weaker than last year's champions. The Bulldogs' line is lighter but their backfield is still fast. Howard Tipton, Small School All Coast last year, is returning to spark the Bulldogs' wing-T backfield.

Pomona-Claremont

Pomona will be spearheaded by two returning All-Conference backs, Jim Lindblad and Buzz Block, both only 150 pounds. They will operate a single wing under a new coach. A dark horse team.

Cal Poly

Cal Poly is much improved over last year's team, which lost 16-7 to Tech. A new coach, a new athletic scholarship program and many returning lettermen add up to the strongest team that Caltech will face.

Whittier

Whittier has only two first stringers returning to their staff. The loss of Gary Campbell, star tailback, has occasioned a shift from single wing to T formation under the direction of their new coach. The Poets have lost one game to Santa Barbara, 13-0.

Occidental

Oxy is Tech's traditional rival, only they don't know it. The Tigers have been strengthened by a number of Junior College transfers and a new coach. The loss of their brilliant pass combo, Jack Kempp and Jim More, more than offsets these gains, however. Stan Friedman, All Conference lineman, will return to spark the Tigers wing-T, unbalanced line offense.

VARSITY FOOTBALL CALENDAR

Saturday, October 5—UC, Riverside at Caltech (2:00)

Friday, October 11—Caltech at Redlands

Saturday, October 19—Caltech at Pomona-Claremont. (Day game)

Saturday, October 26—Caltech at Cal Poly (at Pomona)

Friday, November 1—Whittier at Rose Bowl

Saturday, November 9—Cal Baptists at Caltech (10:00 am)

Friday, November 15—Occidental at Rose Bowl

Saturday, November 23—La Verne at Caltech (day game)

Varsity water polo hopes still bright

The most important factor in the outlook of this year's water polo team is the loss of goalie Don Wiberg for the season. Except for the sudden weakness at this vital position, the outlook is bright and a championship year may be again in the offing. Clark Rees will be back as number one scoring threat, with help from Bob Blandford, Vince Taylor and Keith Martin.

FOOTBALL (Continued from page 1)

Even, and it is unlikely that any team will emerge undefeated in league play.

LaBrucherie is expected to start Newman and Stanley at ends, Larry Berry and Gene Beisman at tackles, Pitzer and Conover at guards, Hays at center, Van Kirk at quarterback, Blockling and Takido at half, and Krehbiel at fullback.

LaBrucherie is expected to start Newman and Stanley at ends, Larry Berry and Gene Beisman at tackles, Pitzer and Conover at guards, Hays at center, Van Kirk at quarterback, Blockling and Takido at half, and Krehbiel at fullback.

Tackle—Larry Berry

Quarterback—Dick Van Kirk

CALF—Ruth Pitzer

Center—Lance Hays

Guard—Ruth Pitzer

Tackle—Larry Berry

Football

(Continued from page 1)

Even, and it is unlikely that any team will emerge undefeated in league play.

LaBrucherie is expected to start Newman and Stanley at ends, Larry Berry and Gene Beisman at tackles, Pitzer and Conover at guards, Hays at center, Van Kirk at quarterback, Blockling and Takido at half, and Krehbiel at fullback.

Tackle—Larry Berry

Quarterback—Dick Van Kirk

Cal Poly

Cal Poly is much improved over last year's team, which lost 21-0 to Tech. A new coach, a new athletic scholarship program and many returning lettermen add up to the strongest team that Caltech will face.

Whittier

Whittier has only two first stringers returning to their staff. The loss of Gary Campbell, star tailback, has occasioned a shift from single wing to T formation under the direction of their new coach. The Poets have lost one game to Santa Barbara, 13-0.

Occidental

Oxy is Tech's traditional rival, only they don't know it. The Tigers have been strengthened by a number of Junior College transfers and a new coach. The loss of their brilliant pass combo, Jack Kempp and Jim More, more than offsets these gains, however. Stan Friedman, All Conference lineman, will return to spark the Tigers wing-T, unbalanced line offense.

VARSITY FOOTBALL CALENDAR

Saturday, October 5—UC, Riverside at Caltech (2:00)

Friday, October 11—Caltech at Redlands

Saturday, October 19—Caltech at Pomona-Claremont. (Day game)

Saturday, October 26—Caltech at Cal Poly (at Pomona)

Friday, November 1—Whittier at Rose Bowl

Saturday, November 9—Cal Baptists at Caltech (10:00 am)

Friday, November 15—Occidental at Rose Bowl

Saturday, November 23—La Verne at Caltech (day game)

Varsity water polo hopes still bright

The most important factor in the outlook of this year's water polo team is the loss of goalie Don Wiberg for the season. Except for the sudden weakness at this vital position, the outlook is bright and a championship year may be again in the offing. Clark Rees will be back as number one scoring threat, with help from Bob Blandford, Vince Taylor and Keith Martin.

VARSITY FOOTBALL CALENDAR

Saturday, October 5—UC, Riverside at Caltech (2:00)

Friday, October 11—Caltech at Redlands

Saturday, October 19—Caltech at Pomona-Claremont. (Day game)

Saturday, October 26—Caltech at Cal Poly (at Pomona)

Friday, November 1—Whittier at Rose Bowl

Saturday, November 9—Cal Baptists at Caltech (10:00 am)

Friday, November 15—Occidental at Rose Bowl

Saturday, November 23—La Verne at Caltech (day game)
**QUAD** (Continued from page 1)

- Dr. Frank Press was appointed as director of the Seismological Laboratory in July.
- Dr. Press, assuming his new duties this month, succeeds Dr. Beno Gutenberg, world-famous geophysicist who is retiring to half-time status after 27 years at Caltech and 10 years as director of the laboratory.

The new director, 32 years old, has been a member of the laboratory staff since 1955, when he came to Caltech as professor of geophysics. He had previously been associate professor of geophysics at Columbia University and a member of the research staff of Columbia's Lamont Geological Observatory.

**FELLOWSHIPS**

Caltech has to date awarded 32 fellowships for graduate study during the academic year 1957-8. The fellowships, representing a total outlay of $120,000, were financed by grants from 26 business corporations and foundations.

Each fellowship grant covers a year’s tuition and includes a stipend for major student expenses.

**Class officers**

Joining previously elected class presidents Sonny Nelson (senior), Jerry Arenson (junior), and Jim Sorensen (sophomore) was newly elected freshman class president Sid Leibovich. Also chosen by the BOD to take the helm were Ken Casey, vice-president; Bruce Ulrich, secretary; Don Forrest, treasurer; Tom Thed, athletic manager; and Bill Bauer and Pete Lippman, o/o Board of Control. The new frosh officers will serve until elections at the end of first quarter.

---

**THE CALIFORNIA TECH**

**ROTATION** (Continued from page 1)

1) spend any money on, or lend any to, a freshman. "Lending" includes furnishing goods or services on credit.
2) post a coming social program.
3) organize or sponsor any "social events." Unorganized stag parties on campus shall not be considered social events provided that they are conducted in accordance with the Student House rules as interpreted. "Unorganized" means the existence shall be spread by individual word of mouth only.
4) get freshmen dates or lend them cars.
5) be in a freshman's room, or ask him to leave his room, after 10:30 p.m.
6) give information to a freshman on the preference of any other freshman.

"No freshman shall actively or passively resist rotation. No freshman shall participate with any house in an organized athletic program during rotation, and no challenges for interhouse trophies shall be made during this period. " ‘House' in the above rules, means either the organized body as a whole, or any or all of its individual members.”

---

**THE BMOC GO FOR UMOC**

Today's most exciting cigarette! The campus favorite that gives you "Live Modern" flavor...plus the pure white Miracle Tip. Draws easier...tastes richer...smokes cleaner.

**Oasis.....**The freshest new taste in smoking...with soothing Menthol mist and easy-drawing pure white filter. Once campus they're saying: "O'flavor, O'freshness, Oasis!"

**Chesterfield.....**The big brand for big men who like their pleasure big! For full-flavored satisfaction...it's Chesterfield...the cigarette that always goes where the fun is.

Yes, the BMOC go for UMOC! How about you?