

THE CALIFORNIA TECH

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Four Pages

Scranton, Wood Chosen As New Lloyd House RA's

By Bob Morrison

Bob Scranton and Chris Wood have been selected to replace present Lloyd House Resident Associates Jean and Bill Bachovchin, who will be leaving this summer.

Lloyd House members, in an effort to find a highly qualified replacement, participated in nominating and selecting a new RA. There were three sets of nominees for the job: Bob Scranton and Chris Wood; Chuck Douthitt; and Duncan Brown and Janet Elliott. Lloyd House members then voted on selecting the new RA.

The nominees were selected from both grad students and interested outside people. They were chosen on the basis of their ability to get along with undergrads and to be around when needed, and their receptiveness to the often very complex problems of life here at Tech. The nominees were interviewed by a group including Lloyd House President Steve Schafer Tuesday night. The nominees were questioned about various aspects of the job, especially living problems such as roommate troubles, n-draphonic asynchrouous music, and, most important, the psychological problems of the student himself. The RA's are often the first step of help for the troubled student tying to find his way out of an academic/social mess. As a result, the choice of a new RA was made with a great deal of care.

The vote was very close between Bob Scranton/Chris Wood and Duncan Brown/Janet Elliott. Scranton and Wood, neither of whom could be reached for comment, will begin the demanding task next fall.



Dr. Olga Todd

Three Caltech Professors To Retire At End Of Year

Three Caltech professors will be retiring at the end of this year. They are: Max Delbruck, Albert Billings Ruddock Professor of Biology, Alan R. Sweezy, Professor of Economics, and Olga Taussky Todd, Professor of Mathematics.

Max Delbruck retires this June from his named professorshiponly to accept a newly created position to honor retiring professors of unusual distinction: Board of Trustees Professor Emeritus. Delbruck, who shared the Nobel Prize in physiology and medicine in 1969, was the youngest of seven children in a distinguished German family of scholars and public servants. He began his career as an astronomer, but shifted to theoretical physics during his graduate study. In 1932 his interest turned to biology, and he came to study genetics at Caltech in 1937. During World War II he taught physics and researched in biology at Vanderbilt University in Nashville, Tennessee. George Beadle became chairman of Caltech's biology division in 1946, and he brought Delbruck here in 1947. Known as one of the founders of molecular biology, Delbruck used bacteriophage as a model organism to study genetics. In his current research he is using the fungus *Phycomyces* to study how sense organs work at the molecular level.

Alan Sweezy becomes professor emeritus this month after 27 years on the faculty of Caltech. He is a native of New York City and an admirer and summer resident of New England, and before coming to the Institute taught at Harvard and Williams. Since his graduate school days at Harvard, he has been a student and interpreter of Keynesian economics, and in recent years has become particularly concerned with the economic and social implications of population. He has given a course on population problems for several years and has been associate director of Caltech's population program since it began. Not content to rest on academic laurels, he has also been active in off-campus organizations that deal with family planning and population growth. For three years he was chairman of the board of the Planned Parenthood Federation of America, and he is currently a member of the board of the local chapter and a member of Zero Population

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That Was The Year That Was-Or Was It?

Another set of frosh came in September, supposedly the best and the brightest class Caltech had ever gotten. Upon arriving, they learned that, after they went to frosh camp, they were to be rotated, this year without some strange rule known as the "gag rule." Bigger events occupied the thoughts of the Tech staff as they realized that the era of McCorquodale had ended, and with it the triple deck, five column, blark font headlines and the bannerhead in red (which, by the way, costs \$40). McQ, however, stayed in touch throughout the year via the Tech with a column obscurely titled "Jai bu du Cafe Noir," literally, "I drink the black coffee."

The 1976 version of the TQFR came out, an expanded, vastly improved edition. Among other little known facts, Techers learned that AMa95 is a difficult class.

Caltech decided to change its health insurance carrier from Blue Cross to Mutual of Omaha, bringing up the question of why Caltech students are forced to buy this insurance when many of them do not need it. Apparently for the same reason we must all buy subscriptions to the *Tech*: without all 800 students buying it, it would not be a profitable enough venture for an insurance company.

October 22 brought the historic "Millikan Gets Maps" issue of the Tech. On the front page of that issue it was reported (courtesy of news releases) that Harold Brown had won the Joseph C. Wilson Award for his role in the SALT talks, that Millikan Library had received a collection of rare maps, and that the Red Cross Bloodmobile was coming.

Our football team won two games this year, the first one reported in bright red taking up the full front page of the *Tech*. Two weeks later, we won another one against the same opponents, the Glendale Colts. The scores were 15–7 and 24–6.

Amid dramatic reversals in the *Tech* offices—with Carl Lydick leaving his editorial post and Gregg Brown and Henry Fuhrmann taking over, and then Gregg Brown leaving and Kevin Drum taking over—a thousand dollars worth of books were stolen from the Clinton K. Judy Library in Baxter. No doubt they were not noticed for such a long time

because of the chaos around this newspaper.

Just before Christmas vacation, speculation that Caltech President Harold Brown would become Jimmy Carter's Secretary of Defense reached a climax with Carter finally announcing the fact during Christmas vacation, preventing the *Tech* from scoring a sorely needed scoop. On December 4, Dr. Jesse DuMond, a professor emeritus of 13 years, died.

With the start of second term, Gregg Brown finally effectively quit the Tech and Drum took his place along with Fuhrmann and Al Kellner. News finally hit the Tech, with the first story of second term being a cut-and-paste job from the Caltech News, Time, and the LA Times about Harold Brown's departure. Rumors that the faculty was planning to increase the size of the undergraduate class grew and ASCIT officially protested the possibility with a letter to Harold Brown.

David Wales left the Dean's office for Oxford and Dr. James Morgan temporarily took over, filling the post of Associate Dean. He had previously been Dean of Students for three years. The next week, William Schaefer left his post of Registrar, abdicating to Lyman Bonner.

The Braun family donated \$6 million for the construction of a laboratory dedicated to the study of cell biology and chemistry. This building will occupy the location of the Coffeehouse and the public relations building, making the comic book controversy at the Coffeehouse an even more trivial matter than it was before

It seems that, in an effort to change the atmosphere of the Coffeehouse, the managers decided to do away with the vast collection of comic books. Little did they know that their simple action would erupt into a full-fledged campaign issue (to many people's disgust). Finally, the managers acceded to popular will and returned the comic books, including some "great old ones"

Action began to find a new president for Caltech as the Trustees met to form a search committee and empowered Faculty Chairman R.E. Vogt to form a faculty search committee (which would do most of the

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Inside The Tech

If you don't know what's inside the *Tech* this week, then you're a lost cause.

Commentary

The Editorial Page <u>doooloolooloolooloo</u>

American Grading

The following article was submitted by Stanley Dagley, an instructor at the University of Minnesota, who shares many of the views put forth by Randy Tagg [See "Caltech-Stifling The Creative Scientist," the Tech, April 29]. This article originally appeared in Biochemical Education.

It may surprise students to learn that the modern examination began to take its present shape in response to what is called, in current jargon, "societal pressure" which was directed its goal by high-minded liberals. The goal was the reform of the British civil service which, until the first steps towards competitive examinations were taken in 1855, had been staffed largely by patronage; a system providing the aristocracy, in the words of Asa Briggs with "a sort of foundling hospital for their waifs and strays, their sons, legitimate and illegitimate". It was not the intention at that time, however, to open up the civil service to every Tom, Dick and Harry; for these worthies did not then receive a University education whatever their innate talents might have been. The new examinations at Oxford were intended to strengthen and multiply the ties between the upper classes and the holders of administrative power. Nevertheless, "trained intellect was henceforth to be a young man's best passport, instead of social patronage of fashionable friends.

But why make a fuss? Justice is often done; and if it is not, then there is nothing like a little injustice to rouse latent energies. Nevertheless I think it is healthy to generate at least mild scepticism about examinations from time to time for the simple reason that far too much is often read into examination results. We have to do our best to meet society's apparent need for an assessment of students' abilities when they graduate, but I for one would be happier if the limitations of our data were more widely appreciated. An examination grade may relate only to a narrow range of intellectual abilities and give little or no indication of much more important psychological qualities.

The importance of examination grades in shaping lives is shown by the use made of them when selecting for medical schools in the United States. The pressure for admission is overwhelming, and the need for objectivity in selection no doubt dictates that only a near-perfect academic record will merit serious consideration. But one must

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he sceptical about the value of the information supplied in relation the qualities sought in a medical man (I wish there were ten times more medical women in this country). This is not to question the fact that admission committees do all that is humanly possible to select potentially good doctors from the multitudes hammering on the gates. These efforts include the soliciting of opinions from advisors who often lack the time and opportunity to get to know their numerous students on an intimate, individual basis. As a student advisor myself, but more especially as one of their patients of the future, I should be curious to confront a few of these "straight A" candidates with a Rembrandt painting of a very old person. Would one sense that feelings of warmth and compassion were evoked, or a consciousness of the simple dignity that old age can achieve? Courses in art history are often most rewarding, especially for scientists, but I fear that my question would be approached in the following way: Identify this painting of a very old lady as (1) Saskia (2) Hendrickje Stoffels (3) Margaretha Trip (4) J. van Ruisdael, Failure to check (3) would lower the grade and jeopardize the candidate's entry into medical school, and we thus return to square one.

During the late 1960's several Universities abolished grades and substituted a pass/fail system. This move has more recently been described by one University Dean as "a noble experiment that just didn't work", and according to a recent survey there has indeed been a mass movement back to the old system, with the approval of a majority of students. I don't think it was a noble experiment so much as an attempt to sweep a persistent problem under the academic carpet. Graduate, medical and law schools, and possibly society in general appear to demand our numerical or alphabetical data about the worth of young people, just as Mr. Gladstone expected similar assessments from Victorian Oxford. For me at least, the Grade is like Original Sin: I didn't ask for it, but I'm stuck with it.

I am not much in sympathy with those who believe that the main criticism of examinations is that they seldom require students to display originality or think

Continued on Page Three

Election Results

Amendments, Class Officers Decided

Five bylaws changes were passed and many class officers were chosen in ASCIT elections last Tuesday. Runoffs for remaining class officers are today.

The amendment changes passed will make the TOFR an official ASCIT publication, give the BOD the power to pass resolutions, insure secrecy in ASCIT elections, raise ASCIT dues four dollars over four eyars, and institute a system of fines

for publications editors who complete their publications late. In senior class elections, Loise Saffman and Joe zwass are in a runoff for President, Ed Bielecki, Marta De Jesus, and Louis Testa are in a runoff for Vice-President, Tom McDonnell was elected Secretary, and Doug Rountree was elected Treasurer. In junior class elections, No won the presidential race, No won the vice-presidential race, No won

the secretarial race, and No won the position of treasurer, to give No a clean sweep of the Junior

In sophomore elections. Colleen Ruby and Jim Fruchterman are in a runoff for President, Ray Beausoleil was elected Vice-President, Shevaun Gilley and Eugene Loh are in a runoff for Secretary, and No won the office of treasurer.

Tsunami Research Kysinsaster Prediction Female Applicants Up 29% Story Of The Stor Sing Most Popula Ususker Questions Assumptions Ire The Find Of A Supposeful Value Admissions The End Of A Successful Year of Admissions Y Noon Discussion Female Number Hardy Recalls of Rose Bound RE

The Final Confessions Of A **Graduating California Tech Troll**

By Alan Silverstein '77 Can it finally be June, 1977? It must be, though it feels unreal, for now many of the letters that come in the campus mail speak of Commencement, and of the Alumni Association. I've only a few weeks left here, and they'll be hectic ones. How many weeks out of my youth have I spent at this place?—too many to remember, and some I'd

prefer not to remember. It seems that I've given a lot of time to this fishwrap in those four years. The Tech was something I joined my first week here, and I've been on the staff ever since-even though the last Staph Party was three years ago. Ah, well, that stack of faded Techs has special meaning to me, even if no one else read what I, or anyone else, wrote in them.

This short swansong is entitled "Opus 100"—and it's probably the first time I've ever gotten to choose my own headlinebecause one day I sat down and read through those old issues and, lo and behold, I was very close to having published ONE HUNDRED articles in the Tech (to say nothing of the ones that never ran-what futile hours). And this, loyal readers, is indeed that one-hundredth article in four long years.

A hundred is a bigger number than I can easily conceive of. So,

articles by topics. The plurality (29) were for the Caltech Y, as a weekly column. Seven reviewed Watson lectures, and five others conveyed the gist of Y events. And the miscellaneous remainder? They covered subjects ranging from administration news, to frosh options, to PDP 10s, to Interhouse, to admissions, to TQFRs, to food service, to Laserium, to dying oak trees, to parking on the Olive Walk.

So what do a hundred articles in the Tech, or four years at Tech, add up to? Perhaps Ovid answered that question long ago, in Latin. His is a sweet and short answer: I've had fun weaving its English equivalent into the first lines of the last eleven articles I've turned in. It goes like this:

Adde Parvum Parvo Magnus Acervus Erit, that is,

Add/some spice to your h A year ago a good plural Little do they suspect w To get more for your ec A (change occurs in the sha Little can be done, it seen And Monday, fifteen yea Get ready to switch you A very short time remain Big news being always lacki Pile up and burn those

... and that's all, folks.



McDonnell, Lau Win Awards

Tom McDonnell, a junior majoring in Chemistry, was awarded the Haagen-Smit award at a luncheon last Tuesday.

The award was donated in the memory of Dr. Arie Haagen-Smit, who was a professor emeritus of bio-organic chemistry at Caltech.

The \$500 cash prize is awarded to a sophomore or junior in either biology or chemistry. Both academic performance and extra-curricular activities are considered in deciding the winner.

Kam Yin Lau was recently awarded the Jack E. Froelich Memorial Award. The award was established by the family and friends of Froelich, who was both an undergraduate and graduate student at the Institute.

The prize, a gift of money, is given to the Junior who, being in the top five percent of his class, shows outstanding promise for a creative professional career.

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WAS THAT THE YEAR THAT WAS?

Continued from Page One actual searching). This was to begin a long series of headaches for Vogt, who is now "counting the days until July 1," when his term of office ends.

ASCIT elections came, as usual, with Bert Wells and incumbent Ed Bielecki as the main contenders for the presidency. Bielecki started a minor crisis by running at all, pissing off almost all of Dabney House. In the end, Dabney's candidate lost for the first time in five years. The final BOD lineup: President, Bert Wells; Vice-President, Chris Sexton; Secretary, Tom Mc-Donnell; Treasurer, Mike Schwartz; IHC Chairman, Eric Kaler; Director for Academic Affairs, LeRoy Fisher; Director for Social Affairs, Paul Gutierrez; Directors at Large, Ray Beausoleil and Leslie Paxton. In addition, the team of Kellner, Fuhrmann and Drum was swept into office by a landslide vote of 81%, an obvious mandate from the people for massive changes. The Scandal

Then came The Scandal. Dr. Jenijoy LaBelle-who was denied tenure last year, causing tirades in three consecutive issues of the Tech-threatened, through the Federal Equal Employment Opportunity Commission, to sue Caltech for sex discrimination. Although LaBelle was concerned only with her case, the EEOC case was a broad-based case concerned with Tech's overall performance in affirmative action. The figures-no tenured women and no tenured blackslooked bleak for Caltech. After frantic efforts by Faculty Chairman Vogt and others (notably Dr. Christy, who had been thrown into the presidency when Brown left and didn't like it one bit), the case was settled out of court. The EEOC then dropped the case (or at least, they haven't contacted Caltech since, and Christy says he isn't about to call them). Details of the settlement were yet to come and were to be a story in themselves.

The IHC and the administration came to an agreement on how to temporarily solve the housing crunch. Their plan basically amounted to turning three frame houses into "off-campus alleys" and turning the Chester and Del Mar apartments into exclusively student dwellings. Decisions on a long-term solution were yet to come in the form of a report from the newly formed faculty Ad Hoc Committee on Optimal Student Body Size. Their recommendations will probably come sometime next

ASCIT Musical

Guys and Dolls, starring Stan Cohn, Sue Eriksen, Chris Vertosick, and Marshall Gluskin opened to standing room crowds and ended as one of ASCIT's most successful musicals ever. John Gustafson produced while Shirley Marneus directed.

Saga Food Service returned for another year of hockey pucks along with the dormant Baxter Art Gallery. In conjunction with the Pasadena Art Alliance, the gallery premiered the first exhibit, "Art Alliance Collects."

Caltech's math team, consisting of Chris Henley, Bert Wells, and Karl Heuer, placed first in the Putnam math contest for the fifth time in six years to set a new record. To round out the term, we reported that "over 100 names (have been) suggested for the next Tech president," prompting some to wonder exactly what kind of names they were calling the poor guy.

The first issue of the *Tech* of third term offered startling new changes: ten-point leading (in other words, no space between lines), the demise of the "Week in Review," and empty ears. The first two changes stayed, the third was fixed, although there were some who felt that no ears were preferable to the *Tech* editors' odd sense of humor.

In that issue, we found that UASH wanted to raise the GPA needed to graduate with honors to 3.5 because Caltech students were getting better grades. At the same time, we learned that 20% of the frosh class had flunked Physics 1.

Prize Scholarships

An expanded prize scholarship program offered sufficiently meritorious students a total of over \$50,000. As one person put it, merit scholarships are based on the assumption that "even you rich bastards can get some money."

Over third term break, three professors emeritus died: Arie Haagen-Smit, famous for his work on smog; William Lacey, and Don Yost.

Dr. Robert Sinsheimer, head of the biology division, became the first Caltech division chairman to accept a UC Chancellorship as he decided to take the reins at UC Santa Cruz. HSS Chairman Robert Huttenback followed suit, accepting the top post at UC Santa Barbara. Nobody noticed that we used the same headline for both stories.

The details of the LaBelle case were finally worked out, as promised above, and they included an agreement that she could choose to go through a special tenure hearing in three years. This set off a storm (or perhaps simply a tempest in a teapot) of protest in the HSS division, many of whose members felt that that division was being singled out for special treatment. The controversy still goes on.

Dues Hike

Jim Mayer, master of student houses, upset over what he saw as poor living conditions at Caltech, proposed a number of solutions, including house tutors, better physical living conditions, and undergraduate counseling. At the same time, the BOD was having its favorite meeting of the year, the BODget meeting, A record budget of over \$19,000 was approved, putting ASCIT too close to insolvency for comfort. With only about \$2000 left in bank account, the BOD decided that a dues increase, the first in 15 years, was necessary. Consequently, a \$4 increase in ASCIT dues (spread over the next four years) was approved. That was approved last Tuesday in a general election.

Recombinant DNA became an issue of interest at Caltech, with Dr. Robert Sinsheimer apparently opposing nearly everyone else here by claiming that recombinant DNA research should not be done until more was known about it. His views, and the opposing views of Dr. John Rosenberg, a research fellow in chemistry, appeared in the *Tech*'s second double-page feature spread of the year, along with Senior Reporter Tom McCabe's explanation of the controversy.

On May 15 the Tech reported what became a major irritant for many factions of the Caltech faculty. Carnegie-Mellon University offered to effectively buy Caltech's Social Science Department. The offer was finally turned down, but only after the SS department had gotten some

concessions, in the form of faculty positions, from Acting President Robert Christy. Although the SS people called it "simple hard bargaining," others called it an ultimatum and claimed that such tactics were unacceptable. This story marked the first time that the *Tech* scooped the faculty chairman.

Dr. Norman Horowitz was approved as the head of the Biology Division upon Sinsheimer's departure. At the same time (two weeks ago, to be exact), an interim report from the Optimal Size Committee suggested that the only feasible changes in the size of the undergrad class were small ones. Although the final report is yet to come, it is expected to recommend only a small increase or decrease in admissions or no change at all.

Dr. James Morgan was elected faculty chairman, to the relief of Dr. Vogt. The Tech's final double-page feature spread also appeared, with an account of life at Caltech 40 years ago, as related by clipping from Techs from 1920 to 1943.

Good-bye

Finally we come to the present. With the Rivet's fine centerfold, two Tech editors will leave in a blaze of glory. In order to save their GPAs, Drum and Fuhrmann have resigned the prestigious post of Tech editor, and will return to obscurity. Although Drum will stay on as business manager (being the greedy sort), as he put it, "There's no way in hell that I'm going to write for this fishwrap again (at last count he had written 50 articles in two terms)." Fuhrmann concurred (as usual).

All The News That Fits

Before You Leave . . .

Students leaving Caltech (and never returning) must turn in all *Tech* office, ASCIT office, and gameroom keys by Friday, June 10. Failure to do so will result in a \$2.00 fee applied to your third term bill. See Flora in Winnett.

Attention Future Fatgrads

1000 English-More than language oriented schools and colleges in over 150 foreign countries offer teaching and administrative opportunities to American and Canadian educators. Positions exist in most all fields, on all levels, from kindergarten to the university. Salaries vary from school to school, but in most cases they are comparable to those in the U.S. Vacancies occur and are filled throughout the year. Foreign language knowledge is seldom required. Some schools overseas do not require previous teaching experience or certification. Graduating seniors are encouraged to apply. If you are interested in a position with an overseas school or college, contact: Friends of World Teaching, 3643 Kite Street, San Diego, Calif. 92103.

Gays To Meet

The Caltech Gay Discussion Group will continue to meet weekly throughout the summer, Wedesdays at 7:00 p.m. in the Y Lounge. Phone 793-8864 for information.

Page Outflips Ruddock

Page and Ruddock tied for first place in the second annual Interhouse Cooking Contest, held on Sunday, May 21. Blacker House placed third.

Victor Wickerhauser, calling for Page House in a coin toss for prizes, accepted the congratualtions of Dick Beatty of Ruddock. Page won a microwave oven (courtesy of Jim Black and the alumni office). Ruddock's prize was \$250 of wine or cooking equipment, while Blacker received \$150 of cooking equipment.

The Caltech Service League donated \$350; the Master of Student Houses Office contributed the balance of the prize money. Judges from the faculty and administration were Robert Christy, David Morrisroe, William Schaefer, David Goodstein, Sterling Huntley, Marc Nicolet, Hans Liepmann and Richard Dean.

RUN-OFF ELECTIONS TODAY

THE GRADING OF AMERICA--A BRITISH VIEW

Continued from Page Two

creatively; that they simply test what the student has learned. Actually, I am always gratified when students give evidence of having marked, learned and inwardly digested what I have tried to teach them. Moreover, I am not sure that the fastest problem solver makes the best research student; but perhaps I am prejudiced, since I am the sort of person who produces the devastating rejoinder the day after everyone else has forgotten the argument. Regarding graduate (postgraduate) students, grades are used to select them for entry, and in the United States a number of courses must be taken before the student devotes himself full time to research. A further batch of grades, therefore, accumulates at this stage, serving mainly to assure that graduate work is taken seriously. They do not guarantee that she will be a good researcher, and neither do the grades—however good-that were presented for entrance to the graduate school. Some further procedure usually operates to allay the persistent anxiety that the student may not eventually succeed. It is at this stage that those people come into their own who believe that they can devise ways of finding out whether a person can do creative work, either by asking her questions or by getting her to do something else. Thus, her capacity for doing research might be gauged by her ability to write research proposals and defend them before a committee. For the purpose in hand, this is usually better than writing answers to questions; but of course it does not exclude the person who is about to embark on a long career of voicing bright ideas at regular intervals and

doing nothing of substance about them. Actually, I believe that the best way to find out whether a person in inventive is to let her try to be so, as soon as possible. Americans are more anxious about breadth of education than the British, and I attribute my own narrow vision to an Oxford education. In the U.S., a good deal of quantum mechanics may be a prelude to the experimental work later performed on the enzymes from the fat body of the blow fly. The best arrangement is to get such courses out of the way as soon as possible so that an early decision can be made about research potential on the direct basis of actual performance. As for the input from committees in shaping graduate students, I am reminded of an

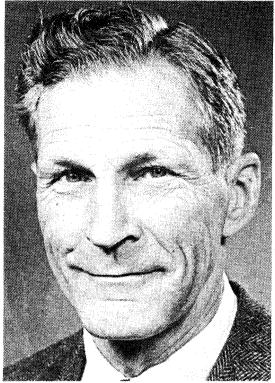
article by the American journalist, Russell Baker, which comments upon the rumour that, as part of its new friendship with the arabs, the U.S. has agreed to redesign the camel. In its present form, as Baker indicates, the camel is a horse designed by a committee. The best person for the design of a graduate student is an advisor who establishes a good personal relationship: sharing the delights of discovery, and more important, supplying from his own inner experience the buoyancy so valuable in times of disappointment and doubt. Any administrative procedure which might upset this relationship is, as they say here, counterproductive.

S. Dagley

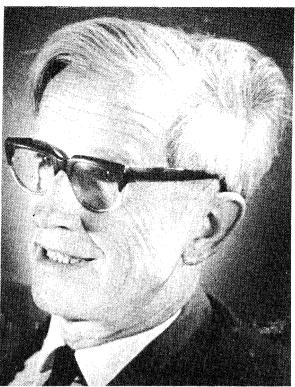
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Dr. Alan Sweezy



Dr. Max Delbruck

THREE PROFESSORS TO RETIRE AT END OF YEAR

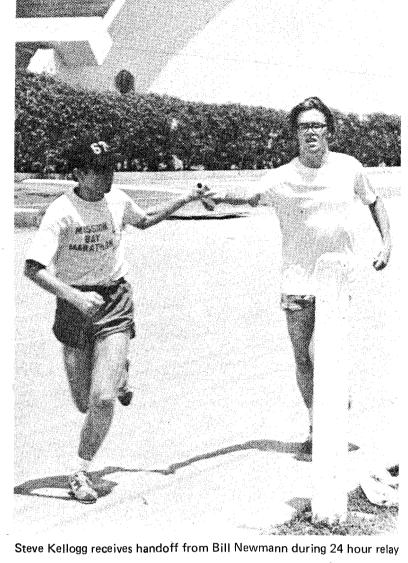
Continued from Page One

Olga Todd becomes professor emeritus on July 1, but she has already been honored this yearon her birthday. It was an occasion that brought forth special issues of two mathematics journals, a symposium attended by more than 40 distinguished colleagues, and a book with 62 papers on mathematics dedicated to her. It was all no more than fitting for so outstanding a mathematician. A native of

Czechoslovakia, she taught in several European universities before coming to the United States in 1947. After ten years with the Bureau of Standards she came to Caltech. Her main contributions are in algebraic number theory (class field theory) and matrix theory, and she has greatly strengthened this work at the Institute. She has been in demand as an editor of professional journals and as a speaker. She has also contributed to a number of books and has

published more than 160 papers, including one which earned for her the prestigious Ford Award from the American Mathematical Association. Another deep interest is that of teaching and training her graduate students. She is a corresponding member of the Austrian Academy of Sciences, and in 1963 was named "Woman of the Year" by the Los Angeles Times.

(Article courtesy of Engineering and Science)



Runners Beat Goals In 24 Hour Relay

By Tommy Trolljan Want to run for 24 hours?

You can, and if you can get ten mad people together to run one-mile legs and pass the baton continuously for 24 hours, you too can say you have been through a 24-hour relay. If you relay manages to run more than, say, 150 miles, you might even have the results printed up in Runner's World, a magazine well

known to all running fanatics.
There were not only ten people last Saturday, but 20. At 9 a.m. Saturday, May 21, 2 relay teams, the KELROFs and the Caltech Cripples without Crutches, started out and on Sunday, they finished still alive

and moving.

The KELROFs consisted of Rob Bourret, Steve Kellogg, Vic Manzella, Tom McCabe, Davis Finley, Bill Gould, Bill Newman, Finley, Bill Gould, Bill Newman, Arne Fliflet, Eugene Loh, and Bruce Bills. Your local Cripples without Crutches are Werner Pyka, Eric Goldreich, Tim Brown, Francis Mukai, Jim Yamamoto, Edmond Lo, Hal Finney, Randy Okubo, Doug Brandt and Ed Soto.

The KELROFs topped their goal of 240 miles (6 minutes per mile pace), averaging 5:49.5 per mile for a total of 247 miles, 275 yards. The CCC averaged a little under 8 minutes per mile,

beating their goal of 180 miles with 189 miles, 850 yards, two miles ahead of a 2-man 24-hour relay team, the Tortoise 'n' Hare. (Take heart! Whenever you think you are doing something crazy, you know at least two people have been crazier).

In case you haven's ofund out already, KELROF stands for Kellogg's Eighth Light Regiment On Foot.

If one had happened to drop by during the grind, he would have seen sleeping bags strewn about the gym, with a few apparently lifeless runners in some of them. Elsewhere, helpers and runners passed out the Gookinade, nuts, raisins, and honey. Activities centered under a tent, giving the relay a carnival-like atmosphere. Careful records of each runner's distances were kept, thanks to Steve Kellogg's careful organization. Everyone was glad when the final gun sounded, and 20 minutes later there was almost no trace of the event, many of the runners having gone out to breakfast.

Awards Banquet

track season is finally over. Whew! The season is almost as long winded as I am, and it concluded with its annual awards banquet on Friday, May 20,

The Goldsworthy Award, given to the athlete who means the most to the team in terms of points, leadership, and spitit, was given to Norm Murray. John Hattick, for his efforts in the 440-yard run, got the Most Improved coaches' award, and Rob Bourret, for his leadership and dedication, received the coaches' Most Inspirational award. It has been a very successful season, and due to the large number of freshmen and sophomores, the team could attain considerable improvement in the next few years.

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