

MIT representatives here to discuss various problems

Academic problems of the country's two foremost institutes of technology were reviewed last week when the presidents and staff officers of M.I.T. and Caltech met here for a three day conference beginning Tuesday (March 20). The conference continues a series of meetings launched here in 1953 to compare notes on questions of administration, curriculum and finance.

The opening sessions Tuesday morning were devoted to the general subject of new educational experiments, such as M.I.T.'s School for Advanced Study and Caltech's Human Relations Course. The afternoon meeting covered fiscal problems, including fund raising and the handling of government finance. This year's discussion covered ideas for increasing the effectiveness of scientific education in the United States.

On Wednesday morning the conferees discussed "the future complexion of engineering education," with particular attention to the role of applied science and the sources of engineering motivation. The afternoon session provided a study of how to improve the quality of science and mathematics instruction in secondary schools, and how to increase student interest in these fields.

On Thursday, the final day of the conference, the morning meeting concentrated on the

Social events for weekend planned

This week's student house social programs have just been planned, this being the first weekend of the term.

On Friday evening Blacker men will play Pee Wee Golf, Ricketts will hold a Roller Skating Party, Flemig will have a Theatre Party at the Pasadena Playhouse seeing the play "The White Sheep of the Family."

Saturday night will see a Caterwauling Party for Blacker, a record dance for Dabney and Ricketts, and a Beach Patrol and Open House for Fleming.

Techmen live it up riding to Colorado Springs as observers on the Mobilgas Economy Run

Amid the blaring of bands and the cheering of thousands, the 1956 Mobilgas Economy Run got under way at midnight, Sunday, March 26. Included in the personnel in the run were 44 Caltech students who acted as official observers for the run. Each of the competing cars was required to have two of these observers in it at all times during the run. Their duties consisted of checking on drivers to make sure that all traffic regulations were observed, to make sure the cars weren't tampered with, and to record gasoline consumption.

Observers found that they were in the spotlight of attention in many of the small towns along the route. Many of these communities made the Economy Run an occasion for gala welcoming celebrations. In many places school was dismissed for the affair, and streets were lined with students and

problems of laboratory instruction and on the handling of students of exceptional mental capacity. The afternoon session will be devoted to graduate school problems.

The Caltech delegation, in addition to President Lee A. DuBridge, included: Division Chairmen Robert F. Bacher, physics; George W. Beadle, biology; F. C. Lindvall, engineering; Linus Pauling, chemistry; Robert W. Sharp, geology; and Hallett Smith, humanities. It also includes Deans William N. Lacey, graduate studies; L. W. Jones, admissions; P. C. Eaton, students; and Foster Strong, freshmen. Other staff members attending are Charles Newton, assistant to the president, and George W. Green, comptroller.

Hobbyists display handicraft in show

The third annual Arts and Crafts Show of the faculty, employees and students of Caltech was held this week in the lounge of Dabney Hall of Humanities. Displaying their hobbies also, will be employees of the Huntington Library and Mount Wilson and Palomar Observatories.

Beginning Wednesday, March 28, the show was open from noon until 6 P.M. and again from 7:30 until 10 p.m. Thursday evening entertainment was furnished by the Misguided Missiles, a barbershop quartette, and refreshments were served on both Thursday and Friday evenings.

In charge of the event was Mr. Charles W. Easley, safety engineer at Caltech, who stated that the entrants ranged from a 1902 "horseless carriage" to a poem.

townsfolk observing the progress of the run. Several high school bands turned out to add an air of festivity to the occasion.

Accommodations provided for the observers on the run were of the highest quality. All nights were spent in first class hotels or motels, and the food the observers ate was the best the hotels and restaurants had to offer. After ordering anything or everything on the menu, the observer had only to hand over a ticket from a booklet he was provided with which covered the entire expense. Probably the top accommodations were in Las Vegas, where the observers stayed in the famous New Frontier Hotel.

The run was not all a picnic, however. Travel was started at midnight each day, often before observers had had adequate

Tech Turks to attend model U. N. conference Tuesday

Mock political parties to meet

Caltech has been given an opportunity to send delegates as representatives to a mock political convention that is being held at the University of Southern California. The convention is planned to duplicate as nearly as possible the political conventions by the Republican and Democratic parties in which the candidates for the President and Vice-President of the United States are nominated. There will be delegations at the convention representing all the states and territories that would ordinarily be represented at a nominating convention. The representatives from Caltech have been assigned the state of Rhode Island as that for which they are to act as representatives. About forty other colleges are participating in the convention.

The conventions will begin with committee meetings in which the delegations from the various states will meet and organize themselves as to what candidates they will support and the platforms for which they will strive. These committee meetings will commence on Thursday afternoon, April 5, for the mock Republican convention. The full assembly will be held the following day, in which candidates will be presented and the various balloting necessary to select one as the party nominee will be held. The same procedure will be repeated for the Democratic Convention starting Friday morning and ending Saturday afternoon, April 7.

Anyone interested in attending as a delegate to either one or both conventions should contact Rube Moulton, Ricketts, or John Young, Blacker.

Ten Caltech men will leave next Tuesday to represent Turkey in the annual collegiate Model United Nations held this year at Oregon State College in Corvallis, Oregon. More than sixty western schools, from Arizona to Hawaii, have been assigned member countries of the United Nations for sessions modeled after the General Assembly, councils, and committees of the United Nations itself.

Beavers elect this year's officers

At the meeting held Wednesday, March 7, at the home of Dr. Alan Sweezy, the Beavers elected new officers and choose additional members for the coming year. The new officers are Jim Workman, president; Warren Furumoto, vice-president; Frank Kofsky, secretary, and Jon Harford, treasurer.

The new members are Bruce Blackie, Mike Bleicher, Howard Bloomberg, Chuck Bonwell, Doug Carmichael, Glenn Converse, Mike Duke, Pete Finley, Dave Leeson, Chuck Malone, Sonny Nelson, Don Nierlich, Jerry Peck, Walt Petersen, Herb Raunch, Vince Taylor, Dick Van Kirk, Jim Welsh, and Larry Whitlow. Dr. Bohnenblust and Ed Hutchings were elected as faculty members.

Caltech employee dies after 25 years here

Frank R. Onza, one of the old timers of the Filipino employees at Caltech collapsed during the meal served Friday noon, March 2. He died at 5 p.m. at the Huntington Hospital.

Onza had worked almost continuously in the Student Houses since their first opening in 1931. Frank was a leader in the Filipino community; he belonged to the Legionarios de Trabajo and happened to be the secretary of the Pasadena Lodge, a social fraternity much like the Masons. "We understand each other," is the way Teo Magdalayo explained its functioning.

Announcements

Next Tuesday and Wednesday between 10 a.m. and 3 p.m. Caltech students may register in the lobby of Throop Hall for the coming national elections. Anyone coming of age by June 5 may register at this time.

Those coming of age between June 5 and November may register at L.A. City Hall. Registration deadline is April 12.

Seniors Caps and Gowns

Today, forms concerning the measurement of caps and gowns will be sent to each senior. These forms must be returned to the "B" box of any of the student houses or Throop Hall by Tuesday, April 3, 1956. The junior class, which is responsible for the caps and gowns, will appreciate the seniors' promptness in this matter, so that each member of the class of '56 will have his cap and gown ready by graduation.

The purpose of the conference is to promote understanding of the United Nations, of foreign countries, and of international affairs. It is the largest intercollegiate conference of its type in the country.

The Tech delegation will travel with 15 other southern California schools in a chartered train.

Following a reception Wednesday, the affair officially opens with a plenary meeting of the Model General Assembly in the OSC coliseum Wednesday evening. At this time the delegates will be dressed in the native costume of their countries as far as possible. Students from the schools representing the Big Five will address the Assembly in native tongues.

The next two days will be devoted to meetings of committees such as the Security Council Trusteeship Committee, and Peace Observation Committee. In the evenings there will be a dance, a concert, and a concluding banquet. On Saturday the General Assembly will meet once more to vote on the recommendations passed to it by the committees.

As host school, Oregon State College plays the role of the secretariat. Nearly seventy students have been working regularly since September organizing the affair. They have drawn up rules of procedure, agendas, and a Charter.

The law schools of the west are forming an International Court of Justice with the cooperation of the Oregon Supreme Court. This Court will hear disputes between nations as presented by students from the schools involved.

The heart of the conference, however, will be the sessions of the General Assembly and the committees. Already fifty resolutions have been submitted for study. They cover such matters as the Arab-Israeli dispute, race relations in South Africa, and even jurisdiction over the proposed space satellites.

Much of the negotiating on resolutions will be done in block caucuses. Turkey will attempt to spread its influence in three of these: the NATO countries, Bagdad Pact countries, and the Arab nations.

Tom Bergeman is chairman of the Caltech delegation and representative on the Ad Hoc Political Committee along with Frank Kofsky. They will present Turkey's position on Cyprus and consider the race problem in South Africa. Vince Taylor and Doug Carmichael will serve on the Political and Security Committee, which will take up disarmament problems. Dick Kirk and Baird Brandow are on the Economic and Financial Committee, which considers

(Continued on page 4)

California Tech

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Campus Brewins

"Scientist wants to knock off chunk on moon"
—Headline seen in L.A. Examiner

Sexonomy Run

The Mobilgas Sexonomy Run (paid for by Generous Petroleum) once more came through to give sex-starved and Scripps-fed Caltech men a respite from the boredom of existence as students. The first night in Las Vegas started with a floor show of six-foot-tall blonde Amazons. (Some of the boys even thought they recognized friends.) Jon Harford had his mind on other things, however, as this gracious "host" dazzled his audience by serving them flaming "baked Alaskan" (on the half shell, no less.)

Conley Tries for Five Mormons

The Mormon City was quite a letdown the second night, but "end" Phil Conley (paralyzed from the mouth down) decided to give his friends a good time.

"Look at those five girls on the other side of the street. They're waving to us!" Quick like a bunny, fulsome Phil galloped across the street, of course being careful not to jaywalk. He

started with his usual conversation opener—"What's there to do in this town after dark?" But, alas, the fair wenches were only fourteen. Next time try a spy glass, Phil.

Mobile Expense Account Useful

In the third night's stop Ole Faithful Co-Chairman Don Wilberg came through with an unusual coop de tite or whatever you callit. Five luscious, lavisvious, licentious damsels were sitting across from our hero.

"Give those adies five dishes of ice cream, assorted flavors, and charge it to our account." (Luckily for our story there were five boys, also.) After showing the girls the more exciting sights of the parked cars (from the run), the half score decided to cut out for some dancing at a "friend's" house. It was going well until it was discovered there was no phonograph. There was no music on the radio. Question: What to do? "Anyone for tennis?" Then people started arriving and our fond five bid their fond farewells to the girls who made Grand Junction more than a dot on the map.

Fourth stop—The BROADMOOR Hotel where Bob Talbot volunteered to fix up with a date anyone who could handle her. (I mean he said he had many dates for all the boys.) This was great except that before the girls arrived there was a free cocktail party—you know the kind—where the water for scotch and water is poured from a thimble and only one bottle is used to pour a martini. Anyway, our boys were a little the worse for wear, being used to nothing stronger than student house cider. So the damsels were reluctant to trust themselves to strangers who had a hard time walking, and there were—excuse the expression infinite—USC football players and the like who swept these broads off their feet and for Techmen the cupboard was bare.

That is, for all but William "Try-um-by-the-dozen" McClure. Bill was running around all afternoon looking for the non-existent keys to an imaginary Oldsmobile — (undoubtedly to pick up the little woman who

(Continued on page 8)

Cyprus, Arab-Israeli conflict to be on Model U.N. Agenda

by Tom Bergeman

As Turkish delegates to the Model United Nations, Caltech men at Corvallis next week will have three major concerns arising from crises surrounding Turkey today. Among the many important problems facing the United Nations these are of most direct importance to Turkey.

The Cyprus problem, which appears on the front page of newspapers every day, is the first of these. Turkey considers that Cyprus is historically and geographically tied to Turkey, after many years under the Ottoman empire. It is only 40 miles from the Turkish coast, but several hundred from Greece, who is trying to extract Cyprus from British rule and place it under Greek control.

Turks protest that Greece has incited the Cyprus mobs to rebellion in an effort to extend its territory. Under these circumstances the principle of self-determination cannot be applied, say Turkish diplomats. Turkey thus opposes a plebiscite in favor of continued British administration.

At Corvallis, Tech delegates will debate against the proposal of Venezuela (Loyola) for a plebiscite on the island. They will ask that the United Nations refrain from interference.

The second important Turkish interest stems from her economic crisis. Today she is desperately in need of economic aid, even to the point of considering Russian assistance. Thus Tech delegates will be vitally interested in economic development and aid programs.

In its effort to match the west in economic status, Turkey has had a trade deficit virtually every year since the war. In the past, U.S. aid has bridged the gap, but recently this assistance has been drastically cut. Turkey thus would like to encourage foreign investment as well as loans from United Nations agencies.

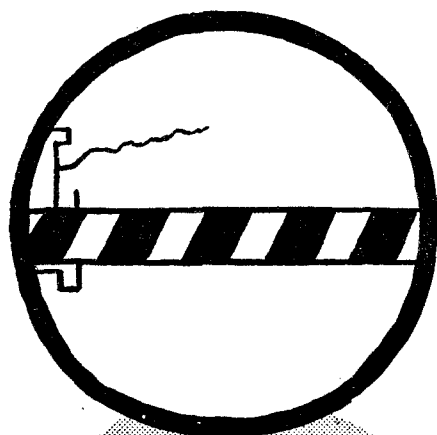
In connection with the dangerous Arab-Israeli conflict, Turkey will strive for a peaceful solution, for she has no desire for warfare near her borders. As a powerful military power in

the Middle East, Turkey will offer to patrol Israel borders.

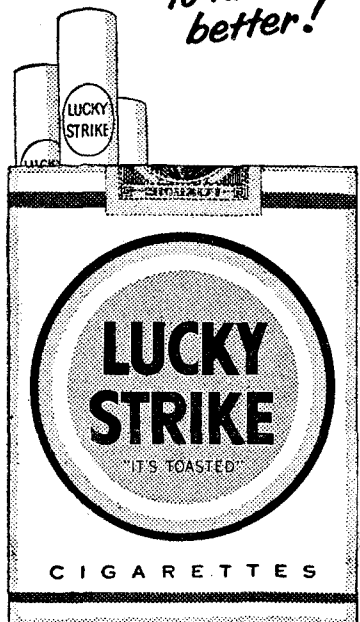
Because of Turkey's position in the center of these problems facing the world at large, Tech men are sure to enter into the thick of the debates at Corvallis.

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WHAT'S THIS? For solution see paragraph below.



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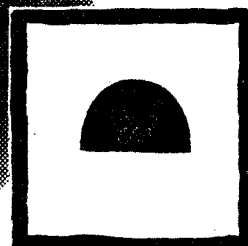


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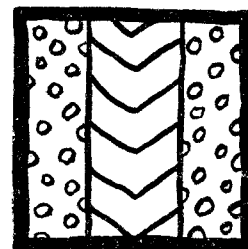
DROODLES, Copyright 1953 by Roger Price

COLLEGE SMOKERS PREFER LUCKIES!

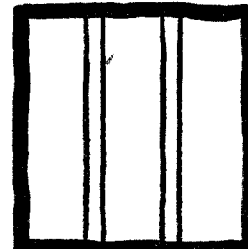
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Dr. Ralph Johnson Bunche

Nobel Peace Prize winner Bunche at Tech has led life of achievement

By Richard Hundley

When Ralph Johnson Bunche left New York by plane for Palestine in June of 1947, he was a distinguished scholar, an authority on the problems of race relations, a man with over six years experience in important government positions, and a man who was virtually unknown to the American man-in-the-street.

When he returned to New York a year and a half later, to receive a ticker-tape parade welcome, Bunche was a front-page newspaper figure, a world hero, one of the most successful peacemakers in history, and this country's most outstanding Negro citizen.

During the period of time between these two events Ralph Bunche brought to a halt the Arab-Israeli war. This accomplishment not only brought peace to the Middle East and saved millions of people from further suffering and possible death, but also vastly increased the prestige of the United Nations. Indeed, at this time many people believed that Bunche had saved the UN from a slow death.

Ralph Bunche went to Palestine at the special request of Trygve Lie to be secretary of the United Nations Special Committee on Palestine. This group was to study the Arab-Israeli problem and attempt to get the two groups to settle their differences. Bunche and his co-workers were able to accomplish little before actual fighting broke out in the spring of 1948. At that time Count Folke Bernadotte was appointed the official UN mediator, and Bunche became his first assistant.

During the spring and summer of 1948 Bernadotte and Bunche labored to get the Arabs and Israelis to settle their differences and end the bloody war. Their task was made difficult by very deep political, social, and religious differences, which extended back in history for over a thousand years. These differences were so deep that the UN mediators were able to accomplish little in spite of the most skillful and arduous diplomatic efforts.

Near Assassination

On September 17, 1948, while on a trip to Jerusalem, Count Bernadotte was assassinated by Hebrew-speaking fanatics. Bunche, who was also marked for assassination, was scheduled to accompany Bernadotte on this trip, but at the last minute he had to stay behind because of unfinished paper work. He thus narrowly escaped death.

Following Bernadotte's death, Ralph Bunche became the acting UN mediator in Palestine. He immediately set to work on the many problems confronting him, and obtained the agreement of the Israelis and Arabs to send representatives to the island of Rhodes to discuss peace terms.

Forces Mediation

At Rhodes Bunche held the representatives of the various factions in conference for 81 days. During this time he, through the greatest diplomatic efforts, forced the Arabs and Israelis to settle their differences point by point. These dis-

cussions were climaxed when the representatives of the two sides signed the armistice and truce agreement. At this time, all agreed that their discussions succeeded only because of Bunche's inexhaustible energy, determination, unruffled good nature, ingenuity, and patience.

After the truce signature, Bunche returned to the United States to receive the nation's acclaim. Following his ticker-tape reception at New York, he went on a nation-wide speaking tour at the request of UN officials. On this tour he received thirty-nine honorary degrees and accolades from about three dozen countries. These honors were climaxed on Sept. 2, 1950, when he was notified that he had been awarded the 1950 Nobel Peace Prize.

Bunche's accomplishments in Palestine and the honors and awards that he received because of them are impressive enough in themselves; they become even more so when one realizes that Ralph Bunche is no ordinary striped-pants diplomat. He is a Negro; his grandfather was a slave on a Southern plantation. All his life Bunche has been the victim of segregation; from childhood experience he knows what the word poverty means.

An Underprivileged Youth

Bunche was born in Detroit, Michigan, on August 7, 1904. He spent his childhood in the Negro section of that city, a section of about twenty square blocks of slum housing in which some ninety thousand Negroes lived, suffered, and died. Disease was prevalent, there was no medical care; infant mortality was three times that of white people; the area was littered with vast garbage heaps; the Negroes were all very poor.

Ralph's father, Fred Bunche, was a barber. Since his neighbors were so poor, and since white people never came into his shop, his income was not very high, and the family, which included Ralph's grandmother and two aunts, was quite often without money. To supplement the meager income of the barbershop, the women of the family took in washing or needlework from the Detroit factories.

Ralph went to work at an early age.

Things became worse and worse for the Bunches in Detroit, and finally, when Ralph was ten years old, they were forced to give up the barbershop and move to Toledo, Ohio, where they hoped to better the family fortunes.

They stayed in Toledo for a year, Ralph's sister Grace was born, but conditions improved not at all. To make matters worse, Fred Bunche developed tuberculosis. Somehow the family found the money to move to Albuquerque, New Mexico.

In Albuquerque, disaster struck. At the age of twelve, Ralph Bunche became an orphan in that city. His mother died of rheumatic fever, and three months later his father followed her. Ralph's grandmother, Anna Johnson, became the head of the family and moved them to Los Angeles, where they arrived in 1916.

Dr. Ralph Bunche will be on the campus for four days of evening lectures and informal meeting with students and faculty during the first week in February. He is the second guest brought to Caltech under the auspices of the YMCA Leaders of America program. The CALIFORNIA TECH takes the opportunity to introduce him.

—The Editors

Ralph had begun his elementary schooling in Detroit. He completed it in Los Angeles and then, in 1918, at the insistence of his grandmother, entered Jefferson High School. At Jefferson he was an excellent debater and an outstanding athlete, winning varsity letters in football, basketball, and baseball. Besides these extra curricular activities he was an honor student, and, at the time of his graduation in 1922, was one of the ten ranking students in his class.

Never a loafer, Bunche held many odd jobs during his high school days. He worked as a messenger for the **Los Angeles Times**, and he was a houseboy for Charles Ray, silent film star. During the summer he worked full time in a carpet-dyeing plant.

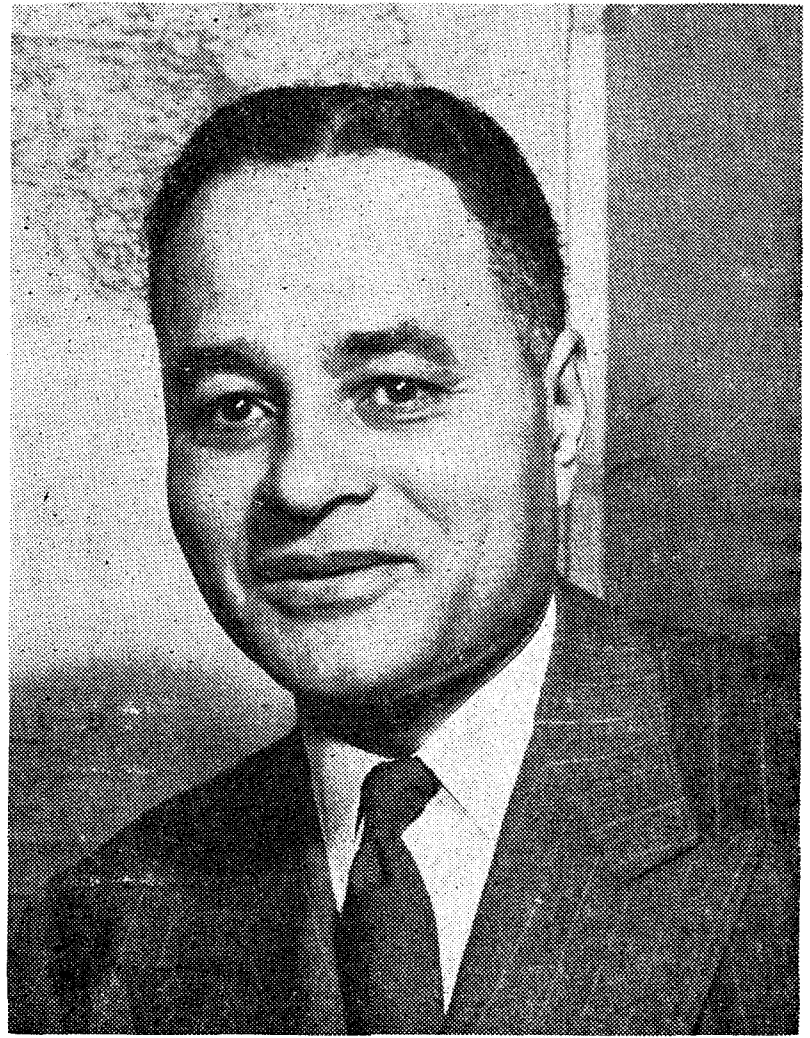
Recognized as Athlete

Because of his athletic abilities, Bunche was awarded a four-year scholarship to UCLA. He hesitated about accepting it, because he thought it was time for him to go to work to help support the family, but again at the insistence of his grandmother, who was determined that he should get as much schooling as possible, he continued his education. Bunche entered UCLA in the fall of 1922. After a few short months he was forced to leave school because of illness. He re-entered college a year later and was outstanding in every way. He took part in oratory and debate and was sports editor of the college yearbook. Because of his illness he was unable to play football, but he was for three years the star guard on the UCLA basketball team. He was a member of Phi Beta Kappa, and graduated summa cum laude in 1927 with a major in international relations. He was one of two Negroes in his graduating class.

Due to his excellent scholastic record at UCLA, Bunche was awarded a tuition scholarship to Harvard University for post-graduate work. At the same time the Negro clubwomen of Los Angeles had collected \$100 which they gave him to help further his education. With these financial aids, and with the money he earned working in a bookstore in Cambridge, Bunche spent a year at Harvard, he received his M.A. in political science.

After being awarded this degree, Bunche left Harvard for a year for Howard University, where he founded the political science department. In the fall of 1929 he returned to Harvard to begin work on his doctorate. As part of his graduate work he traveled extensively in Europe and Africa during 1931 and 1932 collecting material for his thesis. In 1934, he became the first Negro in American history to be awarded a Ph.D. in political science.

During his years of graduate



study, Bunche had continued to be active at Howard University, still serving as head of their political science department. He became an assistant professor at Howard in 1934, and in 1938 was promoted to full professor.

During his first year at Howard, Ralph fell in love with one of his students, Ruth Harris, a young woman preparing to teach in the Washington, D.C. public schools. They were married on June 23, 1930. At the present time they have three children: Joan, born in 1932; Jane, born in 1934; and Ralph, Jr., born in 1943.

Serves in World War

At the outbreak of the Second World War, Bunche attempted to volunteer for military duty; however, he was turned down because of his health. Instead, he went to work for the Office of Strategic Services, where he served from 1941 to 1944. At OSS, Bunche was a senior social scientist in charge of research on Africa and other colonial sections, finally becoming head of the African Section of OSS in June, 1943.

In February of 1945, Bunche received an appointment to the Division of Dependent Area Affairs of the State Department. In this post he served as an expert on the colored peoples of Asia and Africa. His work in the State Department was considered excellent and did much to shape our foreign policy in those areas. Bunche remained in the State Department until 1947, serving for a time, as the acting chief of his division. He was the first Negro to hold such an important State Department post.

Helps Create U.N.

During his stay at the State Department, Bunche took an active part in the formation of the UN. He attended the Dumbarton Oak Conference and the San Francisco Conference, and he wrote those sections of the UN charter which deal with trusteeships. Such was Bunche's knowledge and prestige that the UN delegates accepted his recommendations virtually with-

out debate or change. It was beyond a doubt due to his familiarity with the UN and his recognized authority on trusteeship matters that Trygve Lie selected him to make the fateful trip to Palestine in 1947.

After his return from the Middle East, Bunche continued to take an active part in UN affairs, serving as principal director of the UN Trusteeship Division until 1955. At the present time he is Under Secretary of the UN. In 1950 he was appointed professor of government at Harvard, and thus became the second Negro professor in the history of that university.

A Famous Man

Today, at the age of 51, Ralph Bunche is a great man in a number of ways. He is a great scholar; a recognized authority on international relations, political science, and sociology. He is a prominent educator; his students at Howard have become leaders in government and public affairs. He is an outstanding diplomat; his work in the State Department has done much to shape American foreign policy. He is a dedicated peacemaker, as shown by his work in Palestine and by his Nobel prize.

Bunche is also a great Negro. Today he is one of the most respected and influential spokesmen of his race. He is a symbol, and justly so, to the American Negroes of what they might all be if it were not for the restrictions imposed upon them. White children want to be president; Negro children want to be Ralph Bunche. It would be wise in this time of racial tension if the people of this country studied the life of this man and asked themselves how many intelligent, able men and women are being prevented from attaining the heights they are capable of attaining because they have the misfortune to have been born with the wrong (sic.) color skin.

Scholar, teacher, diplomat, peacemaker, Negro. Ralph Bunche is truly a great American.

Brandow, Pinkerton Y Officers

Friday the ninth of March saw the election of new YMCA officers. Baird Brandow was elected president. Don Pinkerton, who was defeated for the presidency, was elected vice-president. The other officers elected were: treasurer, Don Reiterman; secretary, George Oetzel; publicity manager, Truman Long; and national representative, Bob Blandford.

The new officers were elected by the members of the YMCA. This is something of a break with the traditions of the past, where the Y elections were open to any student interested, Y member or not. At the present the Y membership totals about 85. "The YMCA is on the campus for the students," reports Truman Long, Y publicity manager. "Anyone who wants to take out an Active Membership in the Caltech Y should go to the Y office in building T-1.

Plans are currently under consideration by the new officers for the activities of the YMCA for the present term and the coming year. These include the Seeley conference, and meetings with other YM's and YW's. More details about these and other activities will be announced later.

Cool Corner

by Frank Kofsky

(Ed. Note: In line with our editorial policy as stated during the recent campaign, we take pride in presenting a Cool Corner under five inches in length.)

The local scene

TIFFANY CLUB. Chico Hamilton's unique quintet alternates sets with Hampton Hawes' swinging trio. With Chico are Buddy Collette on tenor, alto, clarinet, oboe, flute, harpsichord and glockenspiel; Jim Hall, guitar; Fred Katz, cello; Carson Smith, bass. The amazing Red Mitchell on bass and Lawrence Marable, drums, back Hamp's fire-eating piano. Minimum is one drink per session on week-ends.

ZARDI'S JAZZLAND. Miss Sarah Vaughn's subtle song stylings are the main attraction here. Needless to say, she does all the numbers that have made her a success in both the jazz and commercial field. Pete Jolly's trio takes over when Sarah stops singing. A dollar twenty-five admission plus a drink a set.

Tech ASME to give talk

On Thursday, April 5, members of the Caltech student chapter of the American Society of Mechanical Engineers will compete for the right to represent the chapter in a general meeting of the Southern California section of ASME to be held one week later, April 12, at the Hotel Green in Pasadena.

Speakers from student ASME chapters at UCLA, USC and Caltech will all present previously-prepared papers at this latter meeting. Their speeches will be judged by a panel of three ASME members.

Two prizes are to be awarded: First prize will consist of a twenty-five dollar savings bond; the second award will be for ten dollars. All of the contestants will receive a free membership in ASME during the first year following graduation.

DEFINITIONS

Hyprocrite — Undertaker trying to look sad at a thousand dollar funeral.

Pink Elephant—Beast of Bourbon.

Dr. Gould to discuss microwaves

One of the newest additions to Caltech's faculty, Dr. Roy Gould, will give this evening's demonstration lecture at 7:30 in 201 Bridge Hall of Physics. The title of his lecture is, **Microwaves, past and future.**

During the lecture, Dr. Gould, who was made an assistant professor of electrical engineering at the beginning of the 1955 scholastic year, will review the role that microwaves have played in the advancement of the fundamental sciences. He will also discuss some practical applications that have come out of microwave generation and radiation theory, and will illustrate with laboratory equipment some of the more striking properties of microwaves.

Dr. Gould came to Caltech from Stanford University after having received his MS degree from that institution. He was awarded his PhD by Caltech.

As is usual, the general public is invited to attend tonight's demonstration lecture.

TECH TURKS

(Continued from page 1)

trade problems and technical aid. John Lango and Hugh Fischer will discuss problems of the Trust Territories such as Togoland and the Cameroons. Dick Ashby and Joe Lingerfelt, on the Social, Humanitarian and

Cultural Committee, will consider questions of human rights and the self-determination of peoples.

Expenses of the delegation are being shared by roughly equal contributions from ASCIT, the Institute, and the delegates themselves.

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SYcamore 5-4723 Appointment Necessary

What young people are doing at General Electric

Young engineer works on new ways to remove heat from atomic reactors

An atomic reactor running at full efficiency creates a tremendous amount of heat in its core. By removing this heat and putting it to work boiling water to make steam, atom-made electricity is produced.

One of the men responsible for designing new, more efficient ways to remove heat from atomic reactors is 29-year-old Doctor Salomon Levy — Design Analysis supervisor in the Atomic Power Equipment Department's Reactor Engineering Unit.

Levy's Work Interesting, Vital

To study this problem of heat transfer, G.E. recently constructed a heat-transfer system. By electrically simulating the heat produced in a reactor, it is possible to determine the maximum rate at which heat can be removed from a reactor to make steam.

Dr. Levy conceived the idea of building this complex system, designed it and supervised its construction. At present, Levy works with this system to study new problems of heat transfer and fluid flow encountered in atomic power plants.

25,000 College Graduates at General Electric

When Salomon Levy came to General Electric in 1953, he already knew the kind of work he wanted to do. Like each of our 25,000 college-graduate employees, he was given his chance to grow and realize his full potential. For General Electric has long believed this: Whenever fresh young minds are given the freedom to make progress, everybody benefits—the individual, the company, and the country.

Educational Relations, General Electric Company, Schenectady 5, New York

DR. SALOMON LEVY joined G.E. in 1953 after receiving his B.S. in M.E. from the Univ. of Calif. in 1949. In 1951 he received his M.S., and in 1953 his Ph.D. From '49-'50 he was teaching assistant at U. of C., and '50-'53 he was Junior Research Engineer at the Institution of Engineering Research.



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dining out

MAISON JAUSSAUD. Over vacation, in my travels between Northern and Southern California, I happened upon a magnificent restaurant in Bakersfield. I recommend it highly to anyone who ever goes up that way.

The **Maison Jassaud**, a great sprawling building of Norman French architecture with massive stone walls and steeply pitched roofs, is a striking landmark on the west side of Highway 99 just south of town. It is surrounded by acres of smooth parking space and has the look of a Long Island country club rather than a California restaurant. Vast stone walled interiors with lofty cathedral ceilings have an air of baronial spaciousness. Parisian theatre posters from the turn of the century decorate the walls. The Maitre d'Hotel who escorted us to our luxuriously comfortable booth had the appearance of Noel Coward and the diction of Charles Boyer. The menu offered as wide a range of delicacies as you are likely to find in San Francisco or New York. Escargots de Bourgogne, Clear Turtle Soup au Madere, Imported Hearts of Palm Salad, Grenadine of Beef Marchand de Vin and an assortment of elaborate flaming desserts and pastries. And there were over 140 different wines on the wine list!

For that after-dinner drink we went to the adjoining Show Room Bar to be entertained by a floor show and dancing in a tower room of theatrically Medieval atmosphere. Most intriguing was Nancy Umeki, a piquant little Japanese singer.

The **Maison Jassaud**, unlike the tinselly places characteristic of Southern California, has the dignified stability of a place that may well be a rendezvous for gourmets a hundred years from now.

Klaus Pfeffer

THE PEPPER MILL, 795 E Walnut, Pasa. 11 am to midnite weekdays, 11 am to 1 am. weekends. Exceptionally fine steak dinners from \$2.40 served in a subtle and very pleasing atmosphere. Highly recommended. Sycamore 6-2500. Bar.

THE CAPTAIN'S TABLE, 301 S La Cienega, LA. 5 to 2 weekdays, 4 to 2 Sun. No finer seafood place in the LA area. Features fresh Maine lobster but cheaper seafood is tops too. BRadshaw 2-1267. Bar.

LAFAYETTE, 1239 E Green, Pasa. Techmen are fortunate in

having the most authentic French restaurant in LA only 4 blocks away. No artificial atmosphere and inexpensive. SYcamore 2-9602. Open 6 to 9 daily except Mon.

TAIL O' THE COCK, 477 S La Cienega, LA & 12950 Ventura Blvd. Most people will tell me the one in the valley is far superior. Strictly American food, but served with all the luxury of continental dining. CRestview 5-5172 & STate 7-1914.

LAWRY'S, 55 N. La Cienega Blvd. 5 to 11:30 weekdays, 3 to 9:30 Sun. Prime rib (the only entree) is wheeled to your table in a silver cart, carved to your individual taste, and served with all the trimmings. \$3.50. DLym-pia 2-2827.

RECOMMENDED IN PASADENA: Pepper Mill, Monty's, Monty's Talk O' the Town, Piccolo, Rancho Hillcrest, Lafayette, Stuft Shirt, Golden Cock, Woody & Eddy's, Pierre's, Marino House, Old Virginia Steak House.

—John Lansing

movies

THE ROSE TATTOO. Anna Magnani gives a performance in this picture that can only be called great. But it is missing the point to see "Tattoo" as merely a vehicle for Magnani. The film is so good that it perhaps is easy to underestimate its achievement; a superb mixing of tragedy & comedy; a clean, healthy treatment of sex that marks a milestone for Hollywood; the examination of a foreign, lower class milieu with love and understanding and without condescension. A motion picture that is both entertainment and art.

MAN WITH THE GOLDEN ARM. There ought to be pride in Hollywood for a picture like this—instead it is denied a seal of approval because it deals with a verboten subject, dope addiction, with almost physically painful realism. Sinatra gives a beautiful & completely believable performance.

I'LL CRY TOMORROW. Susan Hayward does the hysterical woman role that she does so well, this time in the story of Lillian Roth vs. alcohol. It has its moments.

CAROUSEL. Rodgers & Hammerstein are bustin' out all over. This is good enough so that criticism seems captious.

HELEN OF TROY. Rossana Podesta is a pale sort of Helen to fight a war about & Jacques Sernas is unlike any Paris you ever heard of, but the spectacle is really pretty grand.

OKLAHOMA. Major interest here is the new Todd-AO giant screen. Some of the spontaneity of the Rodgers-Hammerstein musical has been lost but it is big & beautiful.

BENNY GOODMAN STORY. Another so-so semifictional autobiography brightened by the presence of many former jazz greats in person & some fine music, if Dixieland is your meat.

THE LITTLEST OUTLAW. An off-beat film from Disney. Touching and simple (somewhat oversentimentalized) story of a Mexican boy and a horse. Gets a lot of the feel of Mexico. Youngster Andres Velaquez heads a good cast.

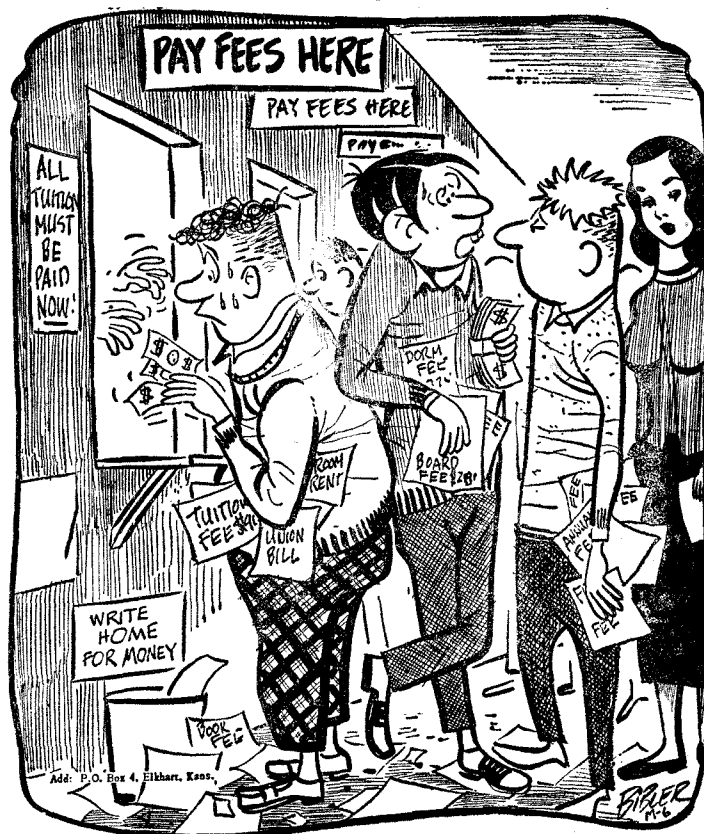
DIABOLIQUE. Clouzot rubs your nose in the dirt while unfolding a very tricky suspense story. Good cast and direction.

THE TROUBLE WITH HARRY is that he's dead and the picture isn't much more lively. Hitchcock has entered his pixie phase. **THE CONQUEROR.** John Wayne & Susan Hayward, despite the hilarious costumes (this is supposed to be about Ghengis Khan), do just about what you'd expect with a script that is worse than you would expect.

—John Lansing

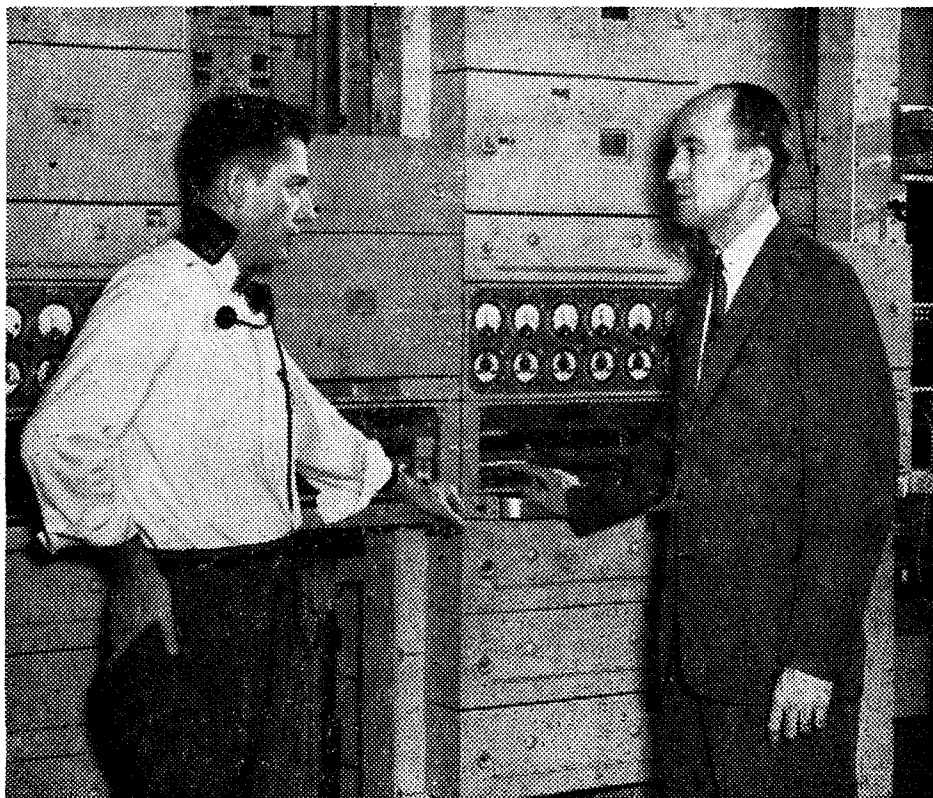
LITTLE MAN ON CAMPUS

by Dick Bibler



"NOW I KNOW WHAT THEY MEAN BY HIGHER EDUCATION."

A Campus-to-Career Case History



Dick Walsh (right) discussing carrier equipment which will provide many additional long distance circuits out of Philadelphia.

"There's opportunity in a growing company"

As an Engineer in the Transmission Section of Bell Telephone Company of Pennsylvania, Richard M. Walsh plans for the future.

"Our group's responsibility," says Dick, "is to see that we have sufficient facilities to handle present and future needs. Telephone usage is growing every year, and we keep up with this growth by keeping ahead of it."

"For instance, to meet the increasing demand for communication circuits in our area, we're adding 70,000 new channel miles this year alone, at a cost of \$3,500,000. Laying new cable will give us 40,000 of those channel miles, and we'll get the other 30,000 through use of carrier equipment, which lets us send a

number of long distance calls on each pair of wires simultaneously.

"Thus, though a cable might have only 300 pairs of wires, we can, with carrier, make it carry over 3000 telephone calls at one time. Using carrier equipment to get extra circuits out of cable—which is expensive to make and lay—is an example of how we engineer to give high-grade service at the lowest possible cost."

"Before I graduated from college I had interviews with twenty-eight companies. Out of all these I chose the telephone company because it had the most to offer in the way of interesting work, training and opportunity. This certainly turned out to be true. In a growing business your opportunities grow, too."

Dick Walsh graduated in 1953 from the University of Delaware with a B.S. in Mechanical Engineering. There are many interesting career opportunities in other Bell Telephone Companies, and in Bell Telephone Laboratories, Western Electric and Sandia Corporation. Your placement officer can give you more information about all Bell System Companies.



Bell Telephone System

Interview Schedule

Thurs. 29—MS, PhD/Ae, Ma, EE, Ph Institute for Air Weapons Research, University of Chicago.

Thurs. 29—MS, PhD/Ch, Ph, Ma Operations Evaluation Group of M. I. T., Washington, D.C.

Thurs. 29—BS/EE, ME, CE Otis Elevator Company. Primarily interested in men for the commercial phase of the company.

Fri. 30—BS, MS, PhD/EE, Ph American Machine & Foundry Company, Pacoima, California.

Fri. 30—BS, MS/ME, Ae, EE Western Gear Works, Lynwood, California.

Fri. 30—BS/CE, ME, EE Western Precipitation Corporation, Los Angeles.

Fri. 30—BS, MS, PhD/ME, Ph; MS, PhD/Ae; PhD/Ma Allied Research Associates, Inc., Boston, Massachusetts.

April

Mon. 2—BS/ME, CE Pittsburgh-Des Moines Steel Company, Santa Clara, California. Designers, fabricators and erect-

tors—five plants located in California.

Mon. 2—BS, MS, PhD/EE, Ph Hycon Eastern, Inc., Cambridge, Massachusetts. Research, development and production in electronics.

Tues. 3—BS, MS, PhD/Ae, EE, CE, ME, Ph, Ma Northrop Aircraft, Inc., Hawthorne, Calif.

Tues. 3—BS, MS/ME, CE Concrete Conduit Company, Colton, California.

Tues. 3—BS, MS/EE, Ph Tele-meter Magnetic & Electronics Corporation, Los Angeles, Calif.

Wed. 4—BS/EE, Ph Applied Research Laboratories, Glendale, California.

Thurs. 5—BS, MS/ME, EE, Ph G. M. Giannini Company, Pasadena, California.

Thurs. 5—BS, MS, PhD/EE, ME, Ph Emerson Research Laboratories, Washington, D. C.

Fri. 6—BS, MS/ME, ChE Thompson Products, Inc., Inglewood, California.

Fri. 6—BS, MS, PhD/EE, Ph, Ma Rome Air Force Depot, Griffiss Air Force Base, Rome, N. Y.

The Sports Corner

by Dick Van Kirk

After a hectic vacation, things are getting back to normal, I think. Bert LaBrucherie's varsity tracksters brought their dual meet record to 2-1 by smashing the March Field airmen Tuesday, but the performances indicated that the Beaver squad is in general a bit out of condition after a two week layoff. Don Lewis came through with the best race of his career only to finish second in the half-mile Tuesday, but his time of 1:58.0 can't be counted as a school record because it was a nonwinning time. Lewis's performance brings to four the number of school records which have been topped this season. Others to break records are Phil Conley in the javelin, and Ted Lang, who threw the discus 142 feet 5 inches at the SPAAAU relays last term. Tony Leonard has a 2:01.1 relay lap in the 880 which unofficially better the frosh half-mile mark of 2:03.5.

Coach Ed Preisler's baseballers ran into a little hard luck over the vacation, losing three games, to San Diego State and the Marines Recruit Depot at San Diego. Main trouble seemed to be a lack of hitting power. Ed Nelson, with a five game hitting streak, is the only Beaver who has been hitting consistently.

Southern California Track Notes . . . Surprise team of the 1956 track season so far is the San Diego Naval Training Center Squad. Paced by such former collegiate stars as Jack Davis, Milt Campbell, and Joe Tyler, the Sailors have posted an outstanding dual meet record. At the recent SPAAAU relays the NTC sprint relay teams ran away from all competitors to set two new records. . . Mal Whitfield certainly proved to the doubting Thomases, including this writer, that he is not over the hill as far as middle distance running is concerned. His time of 1:50.3 two weeks ago ranks as one of the best in the country. . . Don Bowden, the California Sophomore star, rates in my book as a real sleeper in both the 800 and 1500 meter runs in the Olympic tryouts, as does UCLA flash Bob Seaman.



SPEEDSTER John Lukesh flashes across the finish line during a workout.

Trackmen take 12 firsts in convincing 102-29 win

by Tony Leonard

Caltech Beaver trackmen rolled over the March Air Force Base squad 102 to 29 in a dual meet Tuesday at Tech's Paddock Field.

Coach Bert La Brucherie's spikesters took 12 of the 15 possible firsts and swept four events, the 100, 440, mile, and two-mile. Johnny Lukesh, Tech's top dash man, won the 100 and the 220 in 10.3 and 22.4, respectively. Ed Krehbiel was right behind him both times and grabbed two seconds. Forrest Cleveland took third in the century.

Another double winner was Phil Conley, who is still number one in the nation this year in the javelin throw. Conley threw 212'8" and jumped 21'3 1/2" to win firsts in the javelin and broad jump. Phil also tied for second in the high jump with a 5'8 3/4" effort.

Ahead of Conley in the high jump was Gordie Barienbrock, who went over the bar at 5'9 3/4". Chuck Lake grabbed second in the javelin throw.

The distance races is where the Beavers really shined. Fred Witteborn captured firsts in both the mile and two-mile with a 4:45.2 and a 10:56.8. In the mile, Reed Saunders and Jim Workman followed Fred in that order. Dan Wulff was second in the two-mile and Saunders captured the third spot with a brilliant last lap.

Standouts for the Beavers, who have posted a 2-1 record in conference play thus far in the season have been Gene Barnes, Dave Yount, Bob Tokheim, and Al Poisner.

Probably the outstanding individual effort of the day came from Don Lewis, who sped to a 1:58 in the 880. This mark unofficially breaks the school half-mile record but can't be counted since Lewis came in second. Mike Rusch took third in a good 2:03.5, his best time ever.

Roger Wileman, Chuck Bonwell, and Marty Tangora were one-two-three in the 440. Wileman ran a .51.9. These three plus Lewis made up the winning mile relay team. Their time was 3:28.3.

Jim Lloyd cleared 11'10" in winning the pole vault. Bob Norton had the second best vault of the day. Ted Lang, holder of the school discus record, again showed his skill by taking first with a 135'9" discus throw. Luke grabbed third in that event.

In the 220 low hurdles, Dick Van Kirk came through with a win and Arne Kalm tied for second. Van Kirk was clocked at 25.9, his best time this season. Jerry Lawrence took a close second in the 129 highs, edging out Van Kirk who was third.

Del McCune grabbed a second in the shot put and Danny Horowitz placed third.

Swimmers to resume action

After losing the team championship to Whittier by only 1 1/2 points in the conference relays at Redlands, Coach Warren Emery's varsity swimmers resume action next week with a pair of meets.

Monday the tankmen play host to a tough Santa Monica City College team, and the meet figures to be a close one.

Friday Tech travels to Occidental for their first conference dual meet of the season. Occidental has had one conference meet, in which they dropped their first meet in six years of competition to the Whittier Poets. John Kahkonen and Ernie Contreras are standouts for the Tigers, who are defending conference champions.

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So good to your taste because of L&M's superior tobaccos. Richer, tastier—especially selected for filter smoking. For the flavor you want, here's the filter you need.

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RELAX WITH **L&M** MAKE TODAY YOUR **BIG RED LETTER DAY!**

Baseballers meet Hens today in SCC opener

Sporting a 7-5 record in non-conference play, Coach Ed Preisler's varsity baseballers begin conference play against Pomona-Claremont, hosting the Sagehens at 3:00 in Tournament Park. Pomona-Claremont won the 1955 SCC conference title, and the Sagehens are rated as preseason favorites to annex their second consecutive championship this season. Four all-conference selections are returnees for Coach Jesse Cone's squad. They are: Pete Carlson, shortstop; John McCann, second base; Bob Snell, third base; and Howie Scriven, pitcher. Other probable starters for the Hens are: George Connor, catcher; Byron Hayes, first base; Sam Neff, Bob Watkins, and Bill Irvine, outfielders.

Preisler will probably field his usual starting lineup of Neil Herman, catcher, Ray Weyman, pitcher; Jim Koontz, first base; Don Stocking, second base, Chuck Norman, shortstop, Gene Nelson, third base; and outfielders Hal Morris, Ed Nelson, and Chuck Malone.

Monday the Beavers broke a four-game losing streak, smashing Cal Baptist, 8-2. Tony Howell and Ray Weyman combined to limit the Baptists to three hits while striking out thirteen enemy batters, while Ed Nelson sparkled at the plate with three hits, including a triple, to drive in four runs. Hal Morris got two for three at the plate, stole two bases, and scored four runs.

Thinclads prep for relay meet

With high hopes of bringing home a few first-place medals, Coach Bert LaBrucherie's varsity tracksters travel to Santa Barbara tomorrow to compete in the Easter relays. Relay teams have been entered in three events, while two individuals are entered in the special individual events.

Caltech's best bet for a first place appears to be Phil Conley in the javelin. Conley's early season toss of 237'11 1/2" ranks as the best throw in the country thus far this season. Ted Lang, who holds the school record in the discus throw, is entered in that event at Santa Barbara, but doesn't figure to be among the top contenders.

LaBrucherie has a host of sprinters to pick from for his sprint relay teams. John Lukesh, Roger Wileman, Ed Krehbiel, Chuck Bonwell, Marty Tangora, Forrest Cleveland, and Dick Van Kirk are all contenders for berths on the 440 and 880 yd. relay teams.

In the special college mile relay event Tech's team of Wileman, Bonwell, Tangora, and Don Lewis rates as one of the favorites.

Phil Conley



Caltech's javelin ace, Phil Conley, shows some of the paraphernalia which any good javelin thrower always has. Phil travels to Santa Barbara tomorrow to compete in the javelin throw at the Easter Relays. Flanking Phil in the picture are two of his pet javelins, while he prepares to don one of his six pairs of track shoes.

Tech linksters rap Cal-Baptist

Caltech's varsity golf team defeated California Baptist Seminary March 9 at Brookside Park in its first match of the season. The score was 22-8 in the five-man match play. Medalist for Caltech was Ed Shuster.

Individual matchscores were:
Shuster vs. Robinson 3-3
Abbey vs. Wolthers 1-5
Schmitt vs. Havast 6-0
Finley vs. Thomas 6-0
Robinson vs. Vernon 6-0

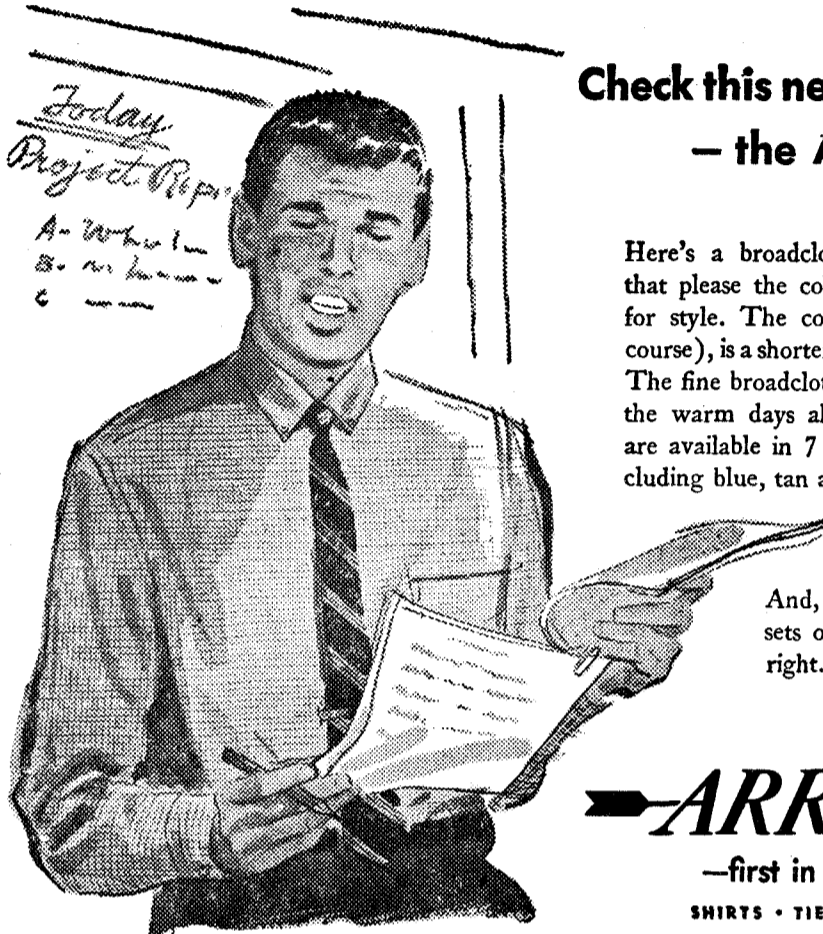
Frosh Sports Roundup

By Brent Banta

Frosh swimmers have gotten off to a fast start in their bid for the top spot in the conference. The junior Beavers downed both UCLA and PCC to begin, and managed to place third in the Redlands Relays. This third place is particularly impressive when one considers that both Elmer Sanborn and Don Owings were absent from the meet. Elmer and Don are our top freestyler and breast-stroker, respectively. This Fri-

day, the Frosh meet Occidental; could be another big step on the road to the top.

The record for the frosh tennis team hasn't been too impressive so far, won 1, lost 3. This single win came when Whittier defaulted. On the brighter side, the rest of the season will be played on the Caltech courts; a factor which is very significant when the disparity in playing surfaces around the conference is considered.



Check this new collar style — the **ARROW Glen**

Here's a broadcloth shirt with features that please the college man with an eye for style. The collar, (button-down, of course), is a shorter, neater-looking model. The fine broadcloth cools you throughout the warm days ahead. The trim checks are available in 7 color combinations, including blue, tan and grey. \$5.00.

And, an Arrow repp always sets off an Arrow shirt just right. Tie, \$2.50.

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Graduating Engineers

Research, development and production activities at Northrop Aircraft, Inc., create a continuous demand for young men who are building careers in the fields of engineering and science.

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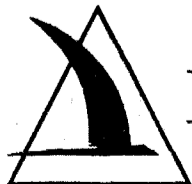
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| Mechanical Engineering | Aerodynamics |
| Electrical Engineering | Thermodynamics |
| Electronic Engineering | Stress and Structures |

...if you want to build a permanent, successful career in one of America's foremost research, development and production centers...if you want to locate in the Los Angeles Metropolitan area, please contact your school's placement office.

Interviews

Campus interviews will be conducted by Mr. Donald J. Colvin, Engineering Personnel Representative of Northrop Aircraft, Inc., on Tuesday, April 3rd at California Institute of Technology Engineering Placement Office.

Please make appointment in advance so your interview may be scheduled for your convenience.



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CAMPUS BREWINS

(Continued from page 2)

wasn't there.) Well, Bill had a suicide pact with one H. Raunch if neither found a girl. Neither did, so at midnight could be heard the happy strains of two gentlemen trying to drown each other in the swimming pool before they slobbered up.

The Gentleman Lawyer Sobers Up

But to continue: Still unaccounted for was one Young John who had been chug-a-lugging martini's. He lingered long and fondly behind the door marked "Gentleman" before he got all the evil out of his system and became one.

The African Queen

The beak has heard of the scandalous vacation doings of Mike Talcott. Mike, who was up in San Francisco staying over in a friend's house, was fixed up with a girl from Mills College. Now this was no ordinary gal, you see; she was an African. Did you hear that, Joe Coint-

ment? She was an African Queen! The Beak, shocked with this news, decided to call up the local KK to dealK with Talcott but then he found out the truth. She was a South African. Besides this her father owned a diamond mine. She also had a rippling British accent that blended beautifully with Mike's

Bronx-type talk.

A Suggestion

Hey, if you don't know where to go with a girl on a date, why not follow the example of Wally Baer and take your chick to one of your classes? We hear it awes the babe so much that she has infinite respect for you. Isn't that right, Wal?

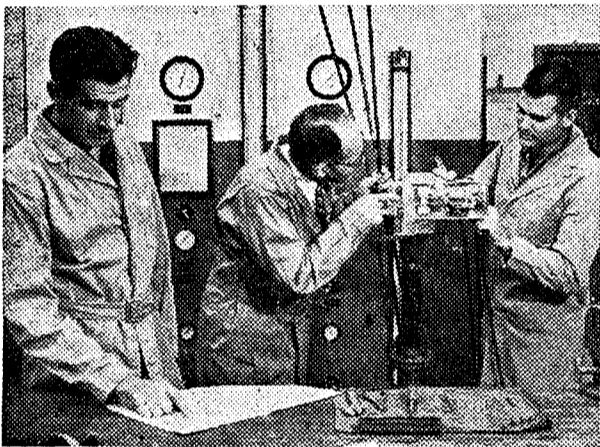
Robert Angell

...or how automation makes more and better paying jobs

"You hear a lot of talk these days about how automation is going to cost people their jobs.

"Me, I work in the most 'automatized' industry of them all—petroleum. And far from costing me my job, automation has made it a better one.

"When I was just getting started in the refinery back in 1925 the average production for



the industry was 32 barrels of product a day per man. The average investment in refinery tools at the time was \$10,000 per man.

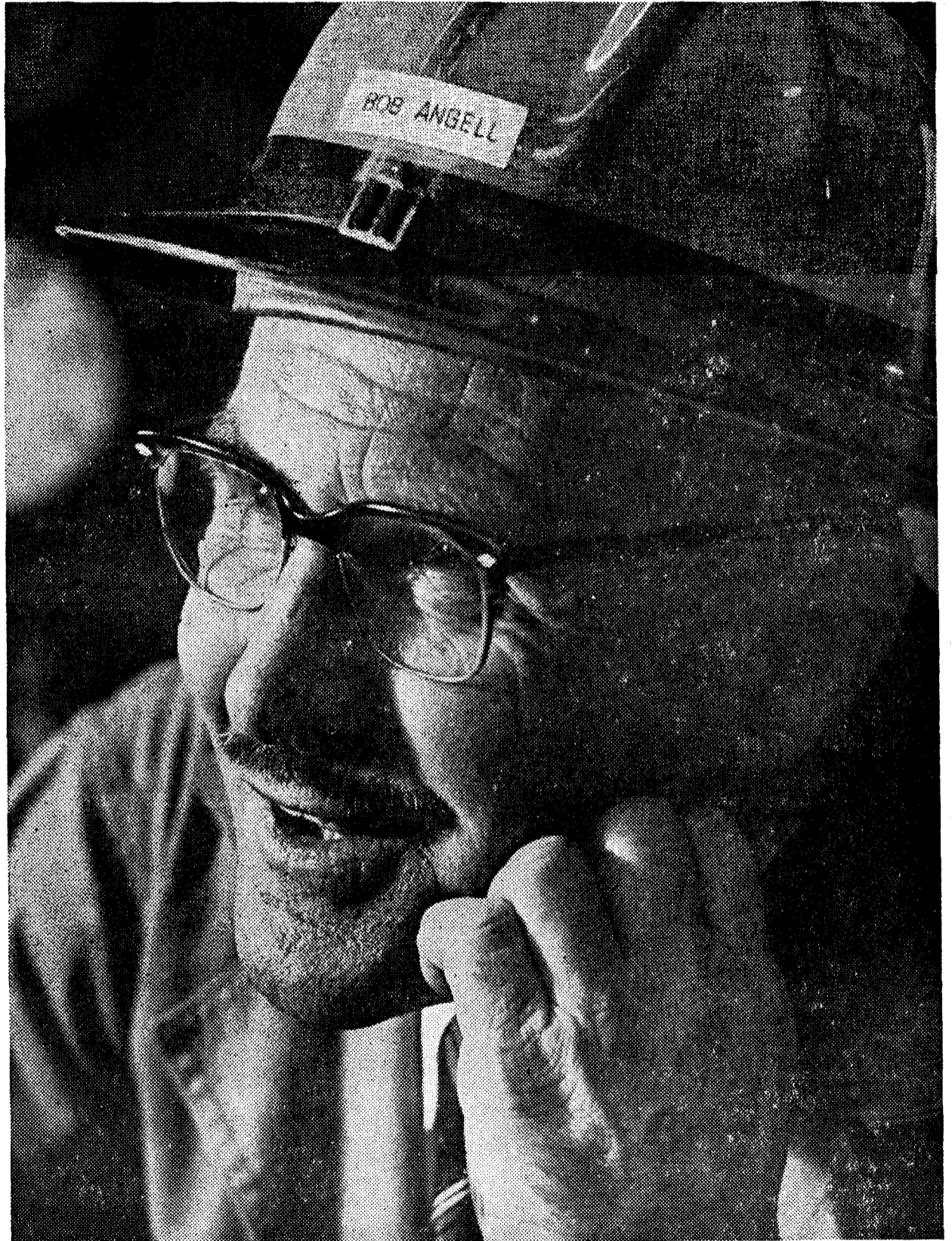
"Today the industry's investment in tools for each refinery employee is \$50,000. Offhand you'd think that that much machinery would put some refinery people out of work. But just the opposite is true.

"Back in 1925 the refineries employed just over 65,000 people. Today they give jobs to over twice as many—133,000. What's more, our production has gone up to 59 barrels a day per man.



"We produce these 59 barrels in 40 hours a week, instead of the old 51 in 1925. And we make more money. In my case my pay is up 288.89% since I started on the job.

"If this is automation, I'll take more of it!"



"MY PAY IS UP 288% AND I WORK FEWER HOURS. IF THIS IS AUTOMATION, I'LL TAKE MORE!"

Automation, it seems to us here at the Union Oil Company where Angell works, illustrates again the basic strength of America's free competitive economy.

So long as business has to compete, it must constantly improve its products. This calls for the fullest use of new and better machines.

This has sometimes caused temporary readjustments in an industry. But in the long run

it helps to create better paying jobs for more and more people.

Which is another reason why the number of Americans at work and the standard of living they enjoy continue to climb.

* * * *

YOUR COMMENTS ARE INVITED. Write: The President, Union Oil Company, Union Oil Bldg., Los Angeles 17, Calif.

Union Oil Company OF CALIFORNIA

MANUFACTURERS OF ROYAL TRITON, THE AMAZING PURPLE MOTOR OIL