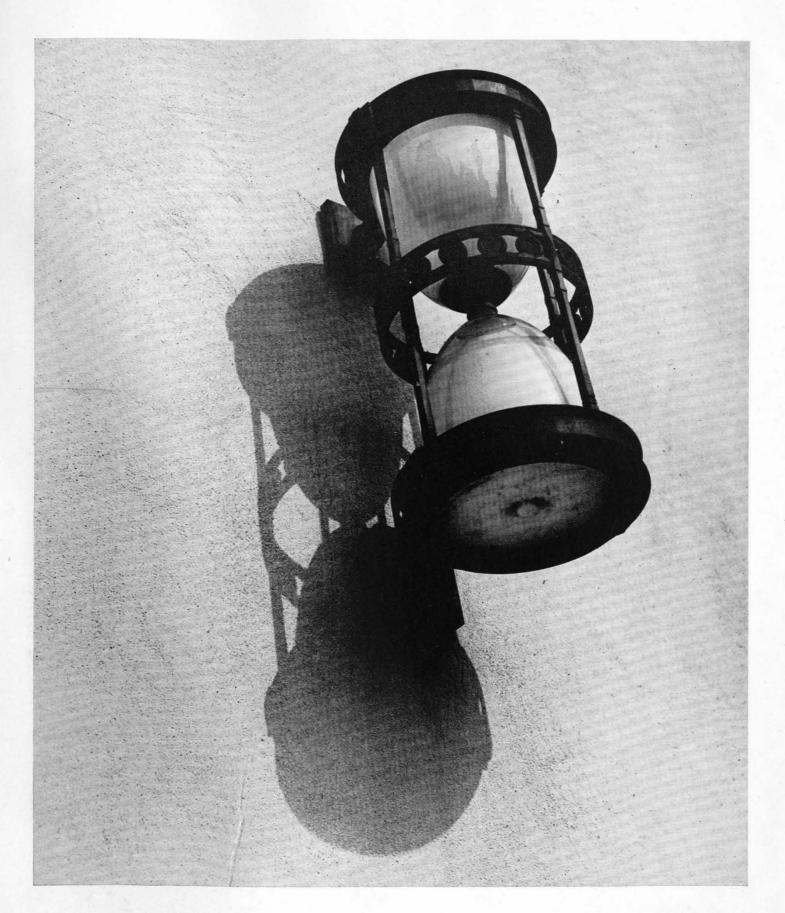
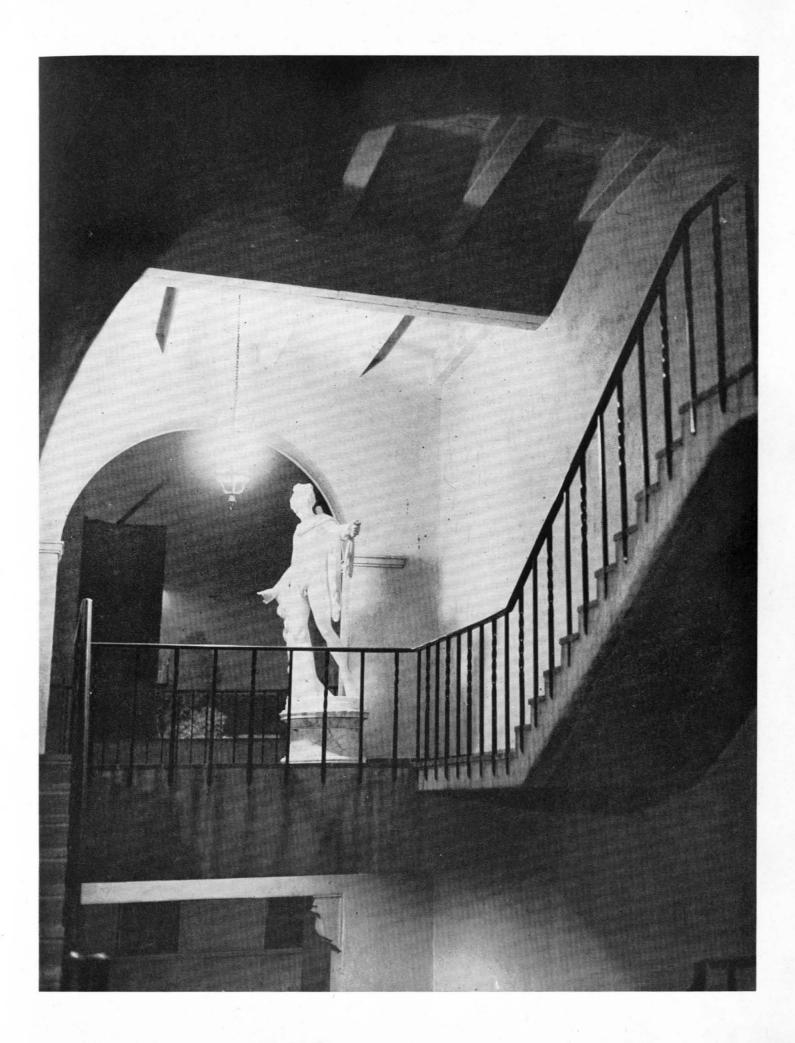


The 1950 BIG T

PUBLISHED BY THE ASSOCIATED STUDENTS CALIFORNIA INSTITUTE OF TECHNOLOGY JON GOERKE, EDITOR COPYRIGHT 1950



OUR THEME: CULTURE AT CALTECH

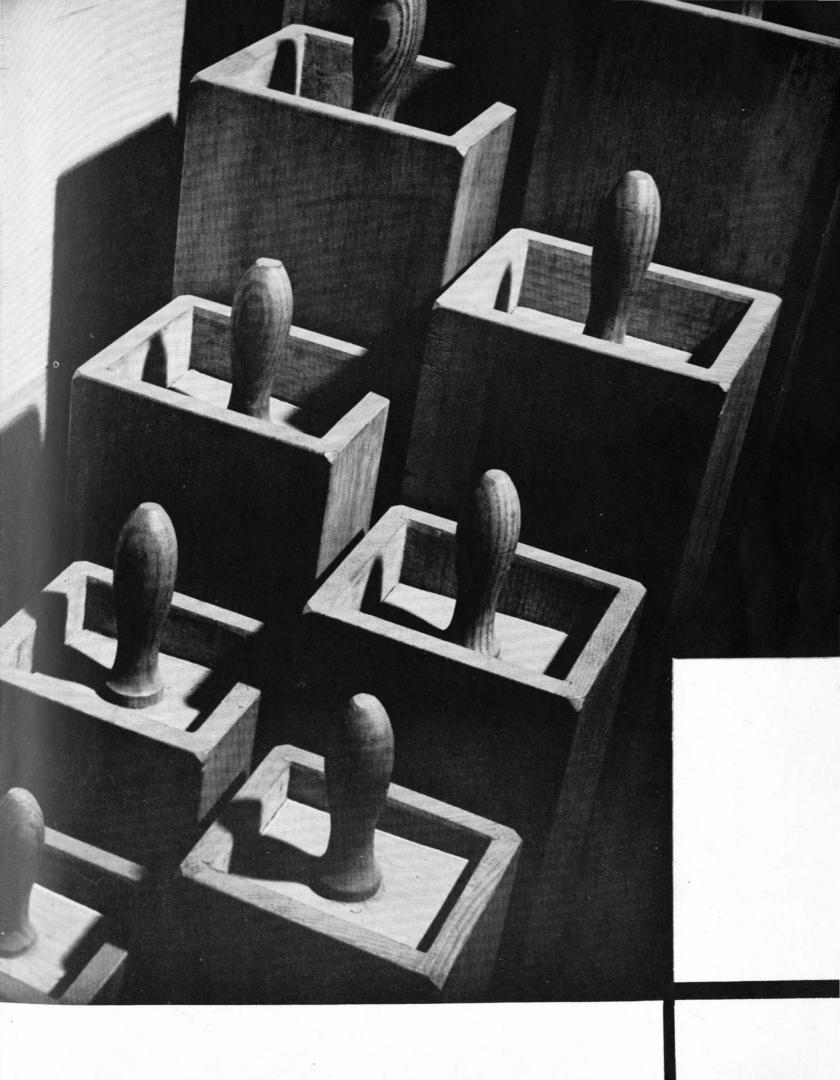




IN MEMORIAM

GEORGE F. KRAUSI PETER B. YEAZELL







L. P. DuBridge



FOSTER STRONG Acsociate Dean for Freshmen



PAUL C. EATON Associate Dean for Upper Classmen

DEANS



WILLIAM N. LACEY Dean of Graduate Studies



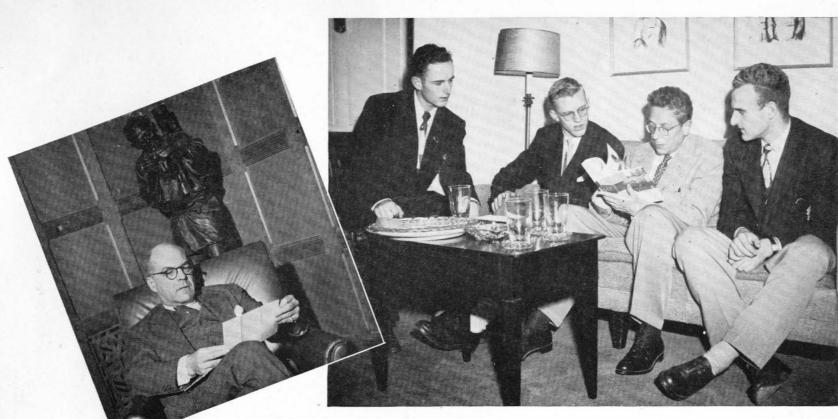
L. WINCHESTER JONES Dean of Admissions



EARNEST C. WATSON Dean of the Faculty



FRANKLIN THOMAS Dean of Students



HARVEY EAGLESON

Sunday night fireside, one of many held throughout the year at the homes of faculty members.

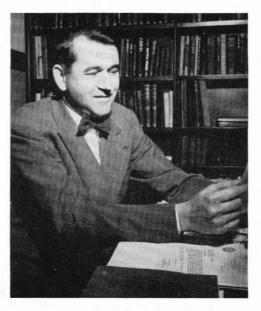
STUDENT-FACULTY RELATIONS

The Student-Faculty Relations Board is just that. Composed of the ASCIT student body officers, House and class presidents, Board of Control representatives, student publications officers, and of 28 faculty and Institute representatives, the Board serves as both a sounding board for student and faculty viewpoints and as an agency for acting on matters of interest to both students and faculty. This past year, under the capable leadership of Chairman Harvey Eagleson, the board has acted on many problems, among which were the question of graduate instructors, the scope of the honor system, and assemblies.





GEORGE W. BEADLE Biology



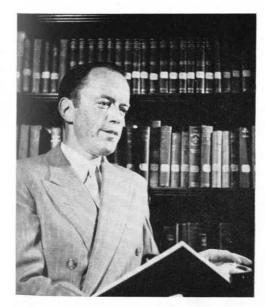
FREDERICK C. LINDVALL Civil, Electrical and Mechanical Engineering, and Aeronautics



CHESTER STOCK Geology

DEPARTMENT HEADS

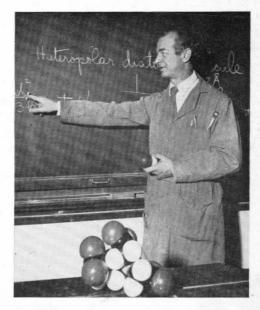
HALLETT D. SMITH Humanities



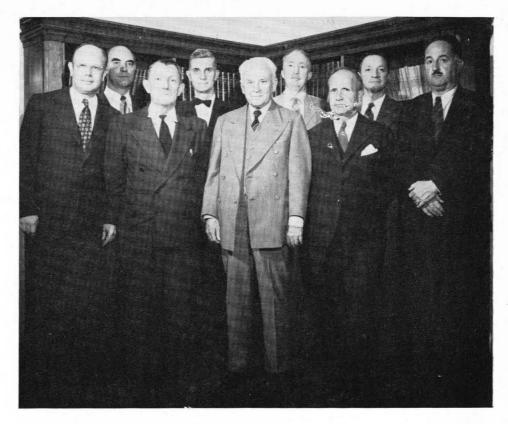
ROBERT F. BACHER Physics, Mathematics and Astronomy



LINUS PAULING Chemistry



PHYSICS



WILLIAM A. FOWLER, CARL D. ANDERSON, CHARLES C. LAURITSEN, WILLIAM R. SMYTHE, ROBERT A. MILLIKAN, JESSE W. M. DUMOND, EARNEST C. WATSON, H. VICTOR NEHER, H. P. ROBERTSON



THOMAS LAURITSEN R. F. CHRISTY ROBERT L. WALKER ROBERT B. LEIGHTON LEVERETT DAVIS, Jr. ROBERT B. KING ALEXANDER GOETZ



JESSE L. GREENSTEIN, ALFRED H. JOY, FRITZ ZWICKY, BENGT STROMGREN, JOSEF J. JOHNSON, PAUL W. MERRILL

MATHEMATICS



A S T R O

A. ERDELYI, MORGAN WARD, H. F. BOHNENBLUST, ROBERT P. DILWORTH, ERIC T. BELL

13

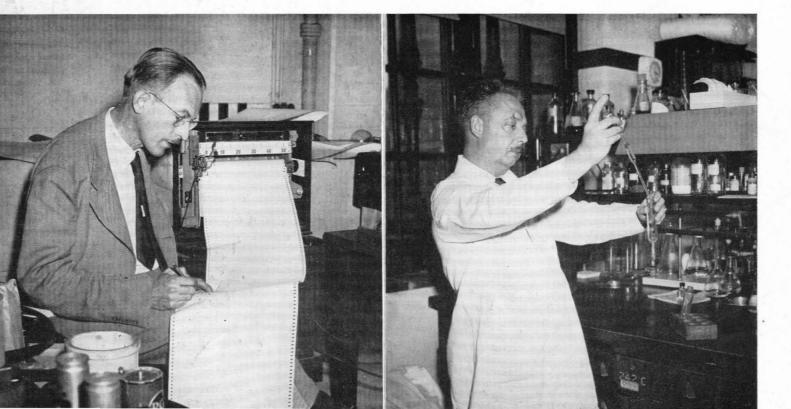


STANDING: DON M. YOST, G. VICTOR BEARD, DAN H. CAMPBELL, JOSEPH B. KOEPFLI, CARL G. NIEMANN, JOHN G. KIRKWOOD, WILLIAM N. LACEY, ROBERT B. COREY SITTING: JOHN R. CANN, HOWARD J. LUCAS, DAVID P. SHOEMAKER, LAZLO ZECHMEISTER, DAVID M. MASON, Jr., LINUS PAULING, NORMAN DAVIDSON, STUART J. BATES

CHEMISTRY

RICHARD M. BADGER

DAN H. CAMPBELL





STANDING: JAMES A. NOBLE, GENNADY W. POTAPENKO, ROBERT P. SHARP RICHARD H. JAHNS, ALBERT E. J. ENGEL, C. F. RICHTER SITTING: CLINTON R. STAUFFER, MERLE C. ISRAELSKY, CHESTER STOCK, IAN CAMPBELL, BENO GUTENBERG

SITTING: ARTHUR W. GALSTON, GEOFFREY KEIGHLEY, N. H. HOROWITZ, G. W. BEADLE, E. B. LEWIS, RENATO DULBECCO, C. E. BRADLEY. STANDING: J. J. WEIGLE, BRUNO ROSENFELD, C. A. G. WIERSMA, HENRY BORSOOK, A. YAN HARREVELD, ALBERT TYLER, A. H. STURTEYANT, MAX DELBRUCK, GORDON A. ALLES.



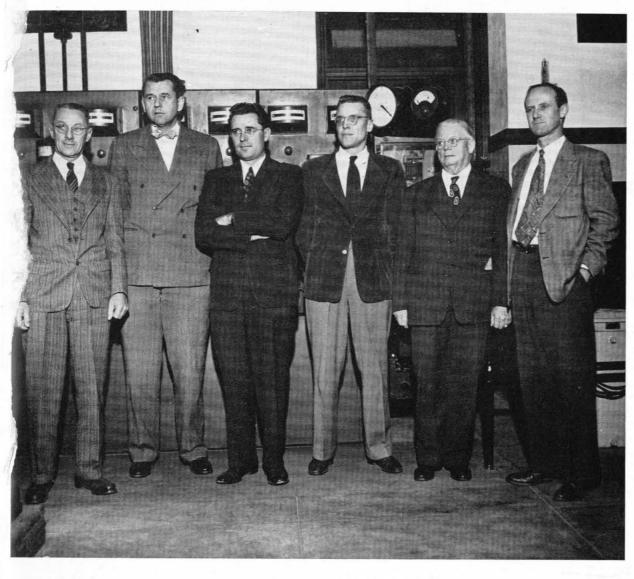
BIOLOGY



WILBUR R. VARNEY, HOWELL N. TYSON, W. DUNCAN RANNIE DONALD E. HUDSON, ROLF H. SABERSKY ROBERT L. DAUGHERTY, ALADAR HOLLANDER, DONALD S. CLARK, PETER R. KYROPOULOS

DONALD CLARK AND PETER KYROPOULOS IN MATERIALS TESTING LAB





FRANCIS W. MAXSTADT, FREDERICK C. LINDVALL, GILBERT D. McCANN, M. H. NICHOLS, ROYAL W. SORENSEN, WILLIAM H. PICKERING

ELECTRICAL E N G NEER 1 N G

OYAL SORENSEN AT CONTROLS OF HIGH TENSION LAB



GILBERT MCCANN AND FREDERICK LINDVALL; BACKGROUND: ENIAC, THE ANALOG COMPUTER



C I V I L

ENGINEERING



CALEB W. McCORMICK, Jr., FREDICK J. CONVERSE, JACK E. McKEE, R. R. MARTEL, FRANKLIN THOMAS, WILLIAM W. MICHAEL

FREDERICK CONVERSE IN SOIL MECHANICS LAB







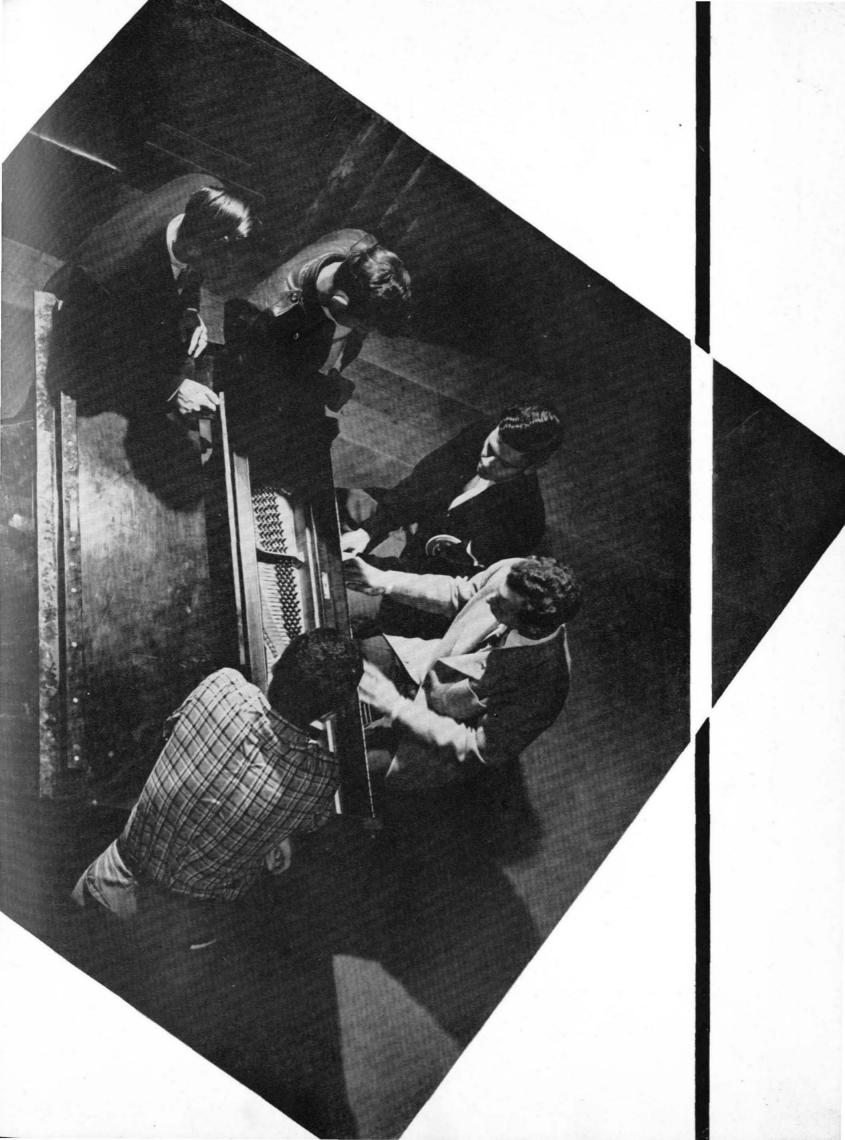


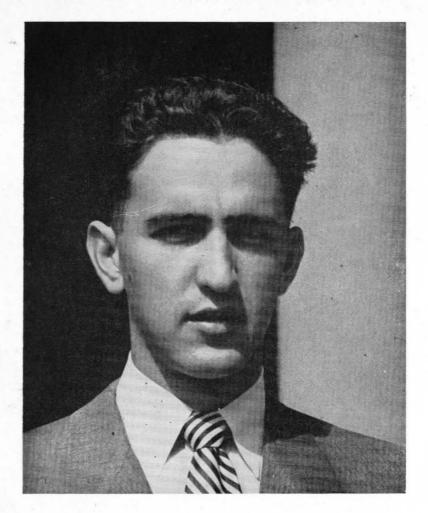
STANDING: HARVEY EAGLESON, JOHN A. SCHUTZ, RODMAN W. PAUL, CHARLES E. BURES SITTING: ROBERT D. GRAY, WILLIAM HUSE, PAUL BOWERMAN, J. KENT CLARK, GEORGE R. MacMINN



STANDING: BEACH LANGSTON, MELVIN BROCKIE, HENRY F. McCREERY, RICHARD D. SENSOR SITTING: L. WINCHESTER JONES, ALFRED STERN, ROGER STANTON, PAUL C. EATON, RAY E. UNTEREINER







STAN BOICOURT, PRESIDENT

When it entered Tech four years ago the class of Fifty set an all-time high for average age, the mean falling well above the twenty-year mark. About three-quarters of the men had seen several years in the armed forces, and, as a whole, the class showed an attitude of sober maturity not usually expected of freshmen.

They got over it in time.

When it came to hell-raising, the men of the mid-century displayed plenty of talent. Theirs was a senior year to remember. The big Ditch Day in the third term was quite successful, with a beach party at Little Corona and the usual Mountain Oaks soiree afterwards to finish off the remaining kegs of beer. A novel innovation to the usual D-Day traditions was added by over-zealous Juniors who, failing to rout a single topclassman on campus, relieved their pent-up emotions in the world's greatest room-stacking venture.

The annual Garden Party fell on May 7, gave the young citizens an opportunity to mix with the faculty on a pleasantly social plane, cost Martin Walt a few gray hairs, but was regretted by no one. At term's end the formal Junior-Senior Prom at the Los Angeles Breakfast Club found the exalted seniors reveling in the new status of alumni. No tears were shed.

SENIOR

JIM BLOM, VICE-PRESIDENT



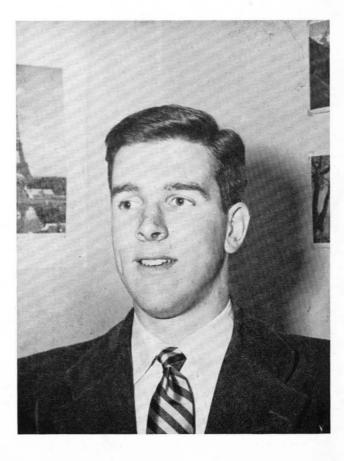
CLASS



MIKE SELLEN, SECRETARY



BILL HAEFLIGER, TREASURER





TED BOWEN

RICKETTS, T³ RICKEITS, 1^a The mighty T.B. came to honor Ricketts after time with the AAF in England, Ricketts Secretary and UCC, belonged to SAE; one of the five stars of this year's basket-ball squad, also played a fine game of football, and other ath-letics like PBAA. Comes from Long Beach, expects to have to work in the future!



WELDON BERGREEN

DABNEY The Eminent Historian of Dabney House, Weldon came out to Tech from Granite Hi, Salt Lake City after four years in the ETO with Army and AAF. He holds member-ship in ASME, SAE, works with Instituters. Ambitious to get out and earn a living, he has been considering the Bureau of Recla-mation as a possibility.

DABNEY



WILSON BRADLEY RICKETTS, T, HONOR KEY RICKETTS, T, HONOR KEY Ricketts Prexy, exponent of the fast buck, turned his peculiar talents for rubles to work as four-year business manager of the "Califor-nia Tech"; Beaver, former Ricketts Veep, lettered in soccer and ski, works in Student Shop, ardent out-door man. Bill will probably re-turn to Minnesota with his "Calif. Tech" profits and live like a king.

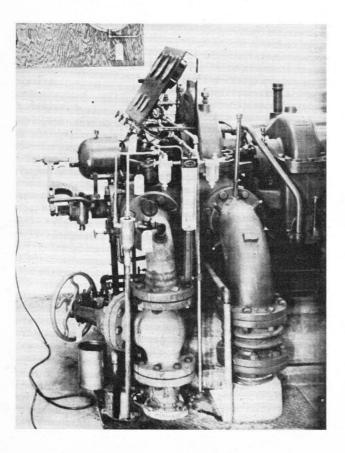


ANDREW J. CHECK

RICKETTS Andy is a Detroiter and grad of that city's Northwestern Hi 'way back in '42. He had two years with the Air Force over Europe before finding Tech and settling in Rick-etts. A mainstay of that house's bowling team, he has also made a good showing with the intercol-legiate keglers. Known in his alley as possessor of a fabulous jazz record collection. His plans, still nebulous. nebulous.

RICKETTS

MECHANICAL ENGINEERING



LOWELL C. COCKEL JR. THROOP

THROOP Transferred in from PCC as a junior and rapidly rose through the ranks to become Throop Club so-cial chairman. He also bowled some impressive games in the IH league, became a member in the ASME. During the summer he en-ioys fly-fishing in the high country, builds models and ties files in the winter. Plans now include ex-tended education on the graduate level. level.



RICHARD FAIRALL

FLEMING, T³ FLEMING, Ta Dick came down to CIT from Fresno after a year's tour of duty with the Navy at Great Lakes. Let-terman in Varsity swimming for three years and soccer for two, he has also entered IS competition with Fleming swimmers, baseball and football teams. Turns his spare time to management of the student shop, debating, photogra-phy, operating the notoriously profitable "Fairall-Scantlin" enter-prises. Han't had enough of the student life, going back to grad work in September.





BAIN DAYMAN JR. DABNEY, TBPI, T

DABNEY, TBPi, T Bain is finally winding up his Tech undergrad careet after a false start in '4 cut short by his entry into the AAF. With three years of varsity football in the wingback spot he was often outweighed, rarely outfought, finally lettered as a senior. Entered into IH competi-tion with the Darb pigskin and soft-ball teams. Bowls, skis, skates, plays tennis and ping-pong for relaxation. A Hollywoodian, he plans to stick around for Aero School at Tech next fall.

NORMAN STANLEY FINK RICKETTS

RICKETTS From Hamilton Hi in L.A. Norm went into the Navy for two years before starting his Tech career. Since then he has become presi-dent of the Instituters, devoted many arduous week ends to man-aging the ski hut, and even spent a term writing news copy for the California Tech. Still single and an Angeleno, he plans



HARRY F. CLARK

FLEMING, T² Hambones set the pace for the late sleepers of his class with the motto, "No class is too late to miss." Back with the Big Red in a mad effort to cram four years' work into ten, after a false start in '40 and a long siege with the Merchant Marine, he helped the Fleming athletes in foot- and softball, took his letters in varsity baseball. Putters with his A-V8 in off moments, coaches third base with a voice that carries miles.

FLEMING, T2



WILLIAM A. FREED BLACKER, HONOR Key

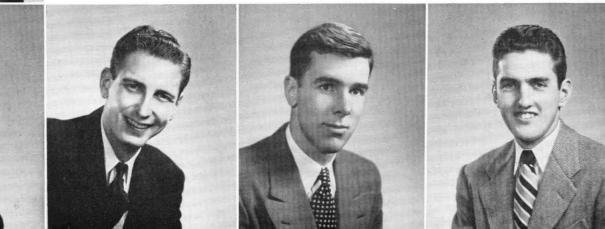
BLACKER, HONOR Key Close on MacArthur's heels on Pacific beaches for 3 years; highly talented Social Chairman for Blacker, then for ASCIT as 1st Rep; Bon vivant in the Blacker tradition. Member of Beavers, ASME, SAE; looking forward to his first million in the near future by some astute dealing in sales engineering.

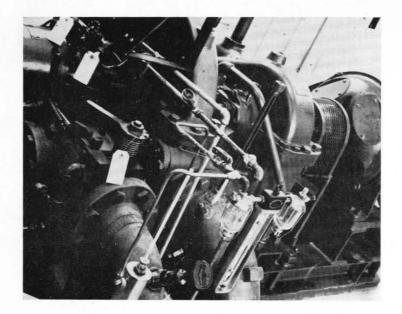
WILLIAM W. HAEFLIGER

RICKETTS, TBPi Formerly of Dixon, Illinois, and 3 years in ETO, Bill came to Tech to be Prexy of his Soph class, Treas-urer of the Seniors; plays in the CalTech Orchestra and on the ten-nis court and golf course. Tau Bate and ASME occupy his pres-ent, a fifth year at Tech in ME is planned for next year. RICKETTS, TBPi

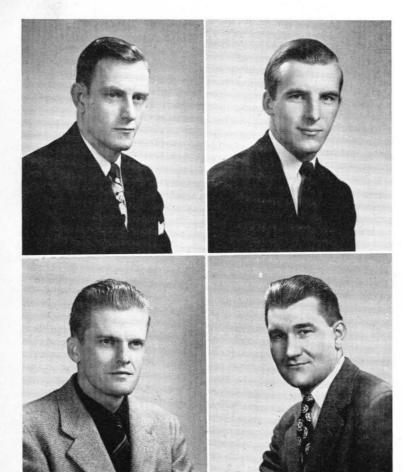
MICHAEL A. HALL

BLACKER, T³ BLACKER, T^a As UCC in Blacker's notorious funnel, Mike ruled with under-itanding and a gentle hand. Ac-live on the House social com-mittee and College of Cardinals, prexy of PBAA. Other athletics in-cluded three-year letters in swim-ming and water polo. ME and coeds lure him to Berkeley for next year.





MECHANICAL



WARREN E. KRUM

WARREN E. KRUM He used to hang his hat in Blacker before settling down to his present married life, now lives 'way down in Artesia. A veteran of the AAF with many long months of Pacific duty, Warren has worked in the family grain milling corporation, plans a future in marketing.

CRAIG MARKS DABNEY, T^a, TBPi DABNEY, T[±], TBPi A three-year letterman in football, Craig also has a lengthy list of scholastic attributes which include SAE, vice-chairmanship in ASME, the Tau Bate key. The brilliant Westwoodite lists a score of hob-bies-woodworking, radio, autos, etc.—and has revealed an antici-pated June wedding. His later plans, to return here for grad work.

JAMES O. McCALDIN DABNEY, TBPi

DABNEY, TBPI Another Tau Bate from Texas, Jim got his start at the U, of T. Com-ing to Tech after two years on destroyer duty he found the cli-mate favorable to intellectual da-velopment, was soon sporting the Tau Bate label. His knack with mechanical gadgetry got him a post as engineering assistant to Prof. Duwer. His pet d.v. rsions piano and social life (Dabney style). Grad school will keep him busy for a while. busy for a while.

WILLIAM H. McLELLAN

WILLIAM H. McLELLAN Other half of the McLellan brother act, Bill likewise halis from Orland, California, but saw his military service with the Canadian Ar-moured Corps, married an English girl before settling in Pasadena. Has been a student ASME mem-ber, strayed from his option to become a radio ham (W6SYE), likes to relax in his home cabinet shop. When he lays the books aside he will be out to get a job and buy a home.

RICHARD A. McKINNON BLACKER

BLACKER A veteran of the Universities of Washington and California and, incidentally, of the Army's ETO program, Lieut. Mac was Blacker headwaiter, UCC, joined ASME, SAE, Student Shop. His hobbies include despair and repair of a '40 Chevy and attachment to Maxine, who will become Mrs. Mac in June. Maxine, who Mac in June.





IRVING LEE ODGERS ' THROOP, TBPI

THROOP, TBPi Irv made a start on his Tech career back in '43 but lost soma time on three years of duty with the Army in Europe. A busy Throop clubber and ASME, he also worked with the ASCIT social committee, found time for the activities of the local Tau Bate chapter. In his first year he ran cross-country for the Engineers. Now married and living in Alta-dena, he plans for additional work toward a higher degree. dena, he plans for additi work toward a higher degree.

Not pictured

DIRCK HARTMANN

DABNEY DABNEY Out of San Fernando Hi, with a year at UCLA, Dirck got into the AAF just as things were breaking back in '41, spent four years on active duty. His interests include motorcycling and golf, partici-pated in football and track until a cycle accident laid him up with a bum ankle. A native of Granada, Calif., he has been a four year resident of Dabney, once lettered on the Bruin water polo squad.

JOHN P. MOFFAT, JR. FLEMING, T³

FLEMING, T³ Member of the exclusive Fleming Upper Alley 5 triumvirate of bon vivants, Jocko looks back none too wistfully at three years of khaki in ETO and views the present over a contemplative Scotch. 3-year main-stay of Varsity Golf and long-time member of the autocratic Waiters' Union, J.P. also indulges in the high finance of the cleaning cartel in Fleming.

JOHN MOSICH

THROOP John Mosich split his undergradu-ate career with a dose of Army which he claims was miserable, came back to enter a course of marital bliss and join ASME, Throop Club, play interhouse foot-ball. A local man, J. M. enjoys week ends hunting and fishing, fears he will have to go to work on graduation. on graduation.

THROOP



DEAN A. RAINS

DABNEY DABNEY Starting his Tech career in '45, Dean took a year-and-a-half break after his frosh year to go on tour with the Army Engineers. Back in Dabney in '47 he became a social lion but the bachelor life soon palled, and he married before his senior year. Still a social member of the Darbs and a loyal ASME, he plans on ME grad studies— possibly at Tech. HOWARD E. REINECKE

⁷⁴ Ed has copped all his athletic honors in aquatic sports, having spent four years on the water polo squad—he captained the team for the fourth—and was among the springboard artists for two addi-tional. When out of water his fa-vorite hobby is packing through the High Sierras. He has been on the ASME roster, will soon be going into business with his brothers in the irrigation equip-ment field.

74



MARCO A. ROMERO MARCO A. ROMERO With a degree in business ad-ministration already to his credit, Marco is ready to wind up his formal education this year. He has been with Ricketts for two years and belonged to the ASME and the Internations Association. Now he is seeking South American employment, a chance to catch up with his reading and raise a family.



DONALD FRAZER ROYCE DABNEY, HONOR KEY The mighty Royce has held almost every office in Dabney, this year's Prexy, captain of the Crew, also an active Beaver, PBAA guiding light, ASME, Board of Control, Big I staff. Pilots a monstrous buff V-16 phaeton and takes out sadistic instincts as House barber, secret social columnist for the weekly "Tech." Expects a lucrative future in business administration.

ENGINEERING







WINSOR SOULE, JR.

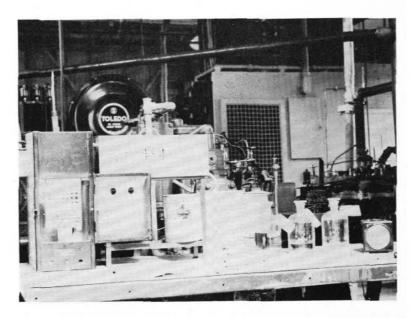
RICKETTS, T, TBPi RICKETTS, T, TBPi Onetime athletic manager of Rick-etts, a mainstay of the Rowdies IH bowling sugad, and a letter-man in track, Win has also achieved the ultimate by making Tau Beta Pi and keeping in good standing with the exclusive PBAA. The lanky Santa Barbaran plans to spend his first summer out of Tech in music school, will enter the Stanford School of Business in the fall.

HENRY SHAPIRO

HENRY SHAPIRO Hank is no newcomer to the field, having served time at the Illinois Institute of Tech before his two years of Navy service as an ETM. Locally he has been with the ASME, says he will stay in the Institute for a fifth-year degree. A native of Chicago, now mar-ried, he is an amateur photogra-pher, longs for an opportunity to travel.

VIRGIL J. SIMS, JR.

THROOP, TBPI, TA THROOP, IBPI, I² This busy lad has managed to achieve the ultimate balance be-tween learning and living. While racking up the scholastic credits for Tau Beta Pi he was busy in SAE and ASME, won three letters in golf, rarely missed a Throop affair. Likes to fly, once lived in Brawley, now an Arcadian. A likely candidate for grad school.



DON W. STILLMAN

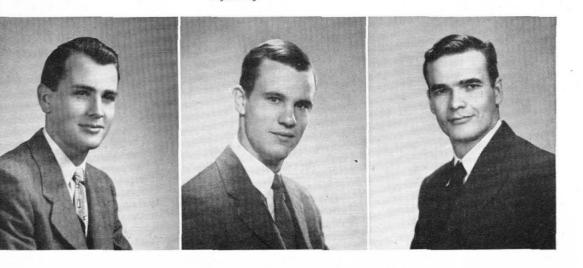
DON W. STILLMAN Don came to Tech directly from Hollywood, was a Throop member for several years until he settled down to married life. His affila, tions include ASME, SAE; for a year he managed the varsity ten-nis squad. In off-hours his avoca-tional bent is satisfied by photog-raphy, automotive tinkering. The outlook this June will determine his choice of grad school or work.

HOWELL N. TYSON, JR. DABNEY, T⁴

DABNEY, T⁴ The man who holds the present CIT shot-put record has managed to earn a full set of four track letters, also has one for football, was out for basketball a year. In '45 he was ASCIT 2nd Rep, later served as ASME chairman. A Yar-sity Club member and off-campus Darb, he is a native Pasadenan, will devote his future to marine engineering.

WARREN WHITING

WARREN WHITING Another Temple City Farmer, Warren considers his wife and year-old son just cause for his de-sire to nail a top job rather than fritter away more years in the pursuit of knowledge. He has had a year at the University of Ari-zona and is a vet of the submarine service, a student affiliate of the ASME here at Tech.





EUGENE G. SPENCER

BLACKER BLACKER A survivor of six long years with the Pacific Fleet, Gene now claims affiliation with ASME, SAE, Blacker UCC and College of Cardinals. Part-time work with the analog computer in the Analysis Lab finances a sleek new Nash in which Gene operates extra-curricular ac-tivities. Hails from Perry, Georgia.



WILLIAM STAATS

BLACKER BLACKER Cornered by the long, icy fingers of the draft, Bill had to split up his Tech life in 1946 for a shift in Japan with the Army of Occupa-tion and Souvenir-gathering. Re-turned to a half-and-half existence between his LA home and Black-mer, where he was UCC, manager and backlog for the interhouse football and baseball teams.

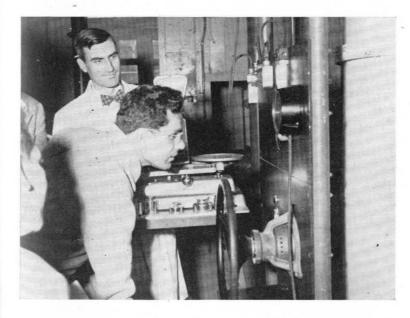


ROBERT L. STERT

Ta Bob's manifold interests and ac-complishments seem to center around his love for swimming. He developed a free diving rig and underwater movie equipment to record his battles with local lob-sters and abalones. Took three letters in water polo, on the scholastic side kept up with the scholastic side kept up with the ASME. Vet of eighteen months ATO duty, he plans to work into the instrument design field.

T3

MECHANICAL ENGINEERING



Not pictured

ROBERT T. STEVENS

ROBERT T. STEVENS With three children and a home fopping his list of accomplish-ments, Bob spent his war years on the big CIT Rocket Development Project. Now takes a real interest in the problems of manufacturing and management. His hobbies in-clude cars and photography, for the future he'll be content with a long rest.

JACK WILLIS

RICKETTS Big Jack, Pride of Ricketts, voted the "man we'd most like to ...", started at Tech in 1944, had a 2-year stateside job as desk jockey for the Navy, returned to be SAE chairman, collect jazz records and engage in daily aquatic battles with the Rowdies at lunchtime from his window in Crud Alley. From San Francisco, Jack Plans to make a future in automobiles, for curiosity and profit.

RICKETTS

JAMES R. WILCOX RICKETTS, T

RICKETTS, T Ricketts' blond Venturan with the loana smile earned the title of hero-of-the-year by being the pig-skin squad's severest casualty, spent the better part of his first senior term in a plaster boot. His more prosaic distinctions included the captaincy of the Rowdy Crew, membership in the PBAA, in palmier days went out for skiing and track.

RICHARD B. WRIGHT

RICETTS, TBPI RICEITS, TBPi Attracted all the way from Akron, Ohio, for the dubious joys of engineering, Dick found a TBPi berth, secretaried and treasured the ASME, joined the Instituters, Student Shop; the rest of the time is squandered on photography and record-collecting. A future in fathrecord-collecting. A future in fath-er's shoes assured.









DONALD S. BARRIE FLEMING, T

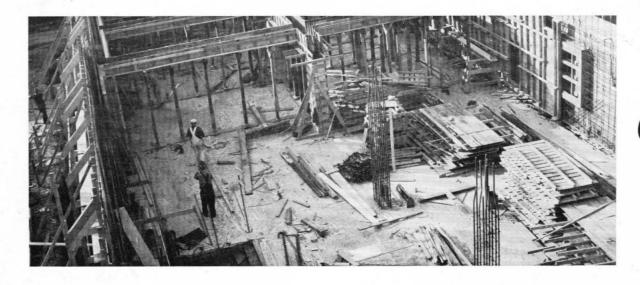
FLEMING, T Fleming's never-to-be-forgotten Pope, and prexy of the tyrannical Waiters' Union, Big Don will be remembered for his aromatic sto-gies, his addiction to Burl Ives ballads, and the misfortunes that plaqued him on the football field. With more luck in golf he had a successful year with the varsity squad. Lists the ASCE with his professional affiliations, three years in the field artillery among thosa of his past.



CECIL W. DRINKWARD DABNEY, TBPi Another of those who had their stay at Tech interrupted by a Navy hitch, Cece came back in '48 to renew his activities in Dab-ney, wound up as a UCC. He's been out for skiing and all IH sports; showed up for most ASCE meetings. An old Alhambran, he has moved back to Denver, hopes to get work with the construction industry in that part of the country.

FREDERICK W. DRURY, JR. BLACKER

BLACKER BLACKER Globetrotter with Navy and with Army family now in Iran, able Prexy of Blacker, "Y" Cabinet wheel, Asilomar discussion group leader, Tech band, journalistic dabblings with "California Tech," member of ASCE, Ski Club, Beavers, vociferous advocate of soaring. May go to Middle East as construction engineer.



CIVIL



VERNE A. EDWARDS

VERNE A. EDWARDS FLEMING Fleming's smiling ballad singer from Danville, California, Big Verne has been a major wheel in the CIT Y, having filled posts of vice-prexy, president, publicity manager, and Y's Beaver editor in the last two years; attended nu-merous week-end conferences and 4 Asilomars. Spent his Navy time in RT school and aboard ship from '44 to '46. Enjoys playing his own guitar accompaniment to westerns and folk songs. Started as an ME, now expects to land a job in that field. FLEMING field.

ABRAM N. GEORGE THROOP, TBP THROOP, TBPi Another of the many XETM's in this class, Abram is a native of South Pasadena. Lists Throop Club and the ASCE as his principal ac-tivities, was vice-president of the latter organization. His plans for the future include work in the construction field, probably on California highways.





C. DARLE HALE

C. DARLE HALE From Fullerton JayCee in the heart of the orange belt, Clinton is another of Tech's Navy vets, having seen three years' service in the Caribbean and South America. Now married, he lists family status as "soon," should have become a father by press time. Was an ASCE member, preferred to do his snaking down on the beach, now turns to pinochle for diversion when not devoting his time to family duties. Entering the petro-leum industry when the right job comes along.

BILL HIGGINS

BILL HIGGINS Erstwhile Flemingite from Schuyler, Nebraska, Bill has adopted Los Angeles as hometown. Spent four years as a USMC fly-boy in the Pacific Theater before turning to Tech. Remembered for his late-into-the-night sieges at the type-writer and the joe pot that al-ways was good for one more cup. Since giving up his bachelorhood in the junior year, he's found mar-riage and Tech full-time projects. Expects to make his million in the br'dge-building and structural en-gineering field.

ENGINEERING

DON JENNINGS

THROOP THROOP The other member of '50's second brother act, Don comes from Du-luth by way of Denver, now re-sides in San Gabriel. An Army vet of a year, he is active in ASCE, senior representative to Throop Club. Athletic inclinations run to sking, boating, tennis; indulges hobby in his workshop. He is look-ing forward to a few years in civil service, then private enterprise. Wants to get back to Colorado and settle down.



CHARLES S. HOWARD

BLACKER BLACKER The handsome "Chuz" makes femmes' hearts skip. His interests are strong in this direction and in general with those things con-nected with "Ia bonne vie." ASCE member and Blacker bridge en-thusiast, Chuz put in a couple years as a dry land gob before Tech, hopes to work in California.



FLEMING, T² FLEMING, T² Left Tech in mid-passage to help MacArthur occupy Korea, returned to letter in baseball and football. The genial Hawaiian, Merle helped engineer the famous Luau party, was a one-time Dabney Veep, a member of the Beavers.

DONALD V. KENDALL

DONALD Y. KENDALL Don became a Techster in '48 when he transferred in from PCC, was an ASCE member, took sec-ond place in the handbalancing event at the Pasadena Invitrational Gym Meet last year. Finds enjoy-ment in singing and strumming his guitar, keeps in trim lifting weights. Now married and a father since March, he plans to find em-ployment in the structural engi-neering field close to his San Gabriel home.









MAX S. KRESTON Another of those who have given the best years of their lives to the acquisition of knowledge, Max graduated from PCC in '40, trans-ferred in from UCLA in '41. In '44 he went into the Navy as an RT, wound up in Hong Kong. Back in Tech he rose through the ranks of the ASCE to become presy. Now happily married, he plans to stay in California where he can indulga his hobbies, surf fishing and golfing. and golfing.

DONALD D. MacDOUGALL TBPi



TBPi Here is one man who won't give up. With one Tech degree already (a B. S. in EE) he now returns for an M.S. in CE, will receive his second Bachelor's degree this June. He has been active in ASCE, the Ski Club, and—of course—Tau Bate. Once spent three years with the USN on Guam, now married and settled in Los Angeles, he won't start work until he is sure of a top-paying position.



CIVIL ENGINEERING

DAN MARKOFF

DABNEY DABNEY Co-owner of the fabulous Blue Taxi, Dabney Pope and philoso-pher Markoff has shown a striking affinity for money, was Treasurer of Dabney, Beavers, Frosh class, also member of Rally Committee, YMCA cabinet, ASCE, Dabney Flamer Crew, staunch PBAAite. Makes and drinks coffee for rec-reation, plans to spend the rest of his days sitting on top a high mountain in Tibet contemplating his navel.

JAY A. MONTGOMERY FLEMING, T

FLEMING, T⁴ At long last nearing the rend of his Tech-nical career, Jay can look back seven years to the day he started the grind. Like many oth-ers, he took off three years to see the world with the USN, still pre-fers California. With a shoe-box full of letters earned in basketball and swimming, he was probably the most decorated member of the Varsity Club, once served as secretary to the athletes, and was a UCC in Fleming.

Not pictured JACK B. OTTESTAD

DONALD J. OSWALD DONALD J. OSWALD An ex-G.I. three-striper who saw service in the Engineer Corps from New Mexico to the Arctic, Don came to Caltech from Dor-sey Hi and Alhambra. He has settled in San Gabriel and, though now married, will be back to the Institute for his Master's degree next year.





ROBERT E. PARKER

THROOP Bob's a San Marinan and a PCC grad who spent three years in the AAF before becoming a Tech frosh. He has been active in the ASCE, Throop Club. Swung a mean club on the golf team and sang with the Gleemen; spent his off-hours weight-lifting and en-joyed small-bore target shooting. His plans, to stay in L. A. until licensed, then—



J. K. POINDEXTER

BLACKER, T³ BLACKER, T^a Arrived at Tech in the dim past, took time out to work at Lockheed and with the Navy at Corpus Christi, Genial treasurer of Blacker, perennial letterman in tennis, ASCE member, Jack also found time for the piano in the lounge and interests in electronics, aero-nautics, architecture. School in Switzerland for 1951.

H. REHA MESARA RICKETTS

RICKETTS From Istanbul, Turkey, and a grad of the Ankara High School, Me-sara has been a Ricketts affiliate while living off campus. Among his varied avocations, radio, paint-ing, classical music lead the cul-tural activities while his athletic diversions include tennis, swim-ming, soccer. He has served as an active member of the Y; plans to work for his M.S. either here or abroad.



DWIGHT C. SCHROEDER FLEMING, T⁴, TBPi The fastest man on two feet in the Engineer track outfit, old reliable Dwidgett holds the current low hurdles record, holds one football letter, had enough of the intellec-tual stuff to make the Tau Bate roster. He was an ASCE, held the money bags for the Varsity Club, and once long ago gave two of his best years to the USN. Though presently single, the stocky Santa Ana spikester is already spoken for.





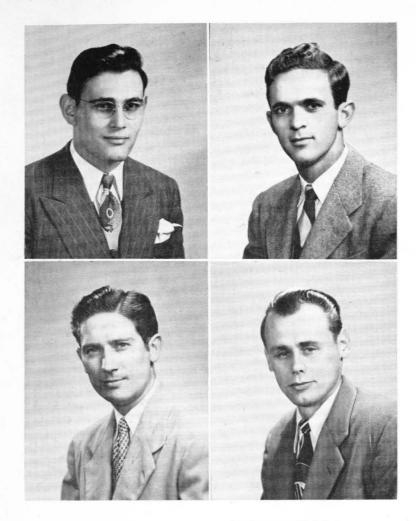
TOM H. STAUFFER

TOM H. STAUFFER An Arizonan who can barely re-member 'way back when he left Prescott Hi in '38, Tom spent a year in Chicago's Wright JayCee, later saw two years of stateside duty with the military. A student member of the ASCE, he is mar-ried, lives in Glendale, but now calls Ada, Ohio, his home town. For the future his plans are still evolving.

WILLIAM A. SYLVIES

Ta Some say there ought to be a law, but Bill is after his second B.S., having won a sheepskin in Me only last year. He is on the rolls of ASME, ASCE, and SAE; holds letters for two years of track and one in football. A native of Honolulu, Hawaii, and vet of two years sea duty, he is out to find a job (or maybe two).

T=



т

LEON JOSEPH BASS

Known to his team-mates as Little Known to his team-mates as Little Bass, Leon is second of the Hous-ton Basses to letter on the Engi-neer pigskin squad. He transferred from the University of Colorado in his junior year, joined AIEE, IRE, decided to continue in grad school. A three-year Navy yet, now married and father of a two-year-old son, he spends his few spare moments tinkering with cars and electronic gadgets.

GALT B. BOOTH

THROOP, TBPi THROOP, TBPi The busy Booth prefaced his Tech career with short bursts at UCLA, Oklahoma A & M, Chicago's Wright JayCee, had three years with the USN. His local history reads like an index of extra-curricular activities: ASME, IRE, Tau Beta Pi, Throop, etc. He once flew with the cosmic ray expedi-tion over Peru, is fascinated by servomechanisms and problems of instrumentation. His next job, an M.S. in ME.

CHARLES R. BENNETT FLEMING, Ta

FLEMING, T^a Fleming V.P. this year, Dick is one of the last of the vanishing old men, came up from Panama to Cornell and Phi Delta Theta in 1940, but found himself swabbing for the Navy before long, finally expects to get out of college this year. Captained the soccer team and lettered in golf three years, presides in white coat over Flem-ing diners.

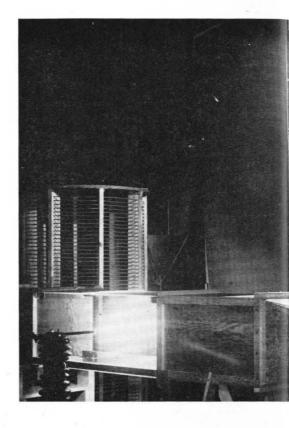
HOWARD E. CLARK RICKETTS

RICKETTS Probably the only EE with ambi-tions to become the World's Onion King, this North Hollywoodian has been a student affiliate of the AIMEE and member of the Crud Alley Triple-A. Spent his war years with the Ninety-Fourth Division in Europe, has no plans for the future save for the aforementioned tear-jerking aspirations.

HAROLD K. COULTER

HAROLD K. COULTER Another XETM putting his Navy training to use in the double-ee option, Keith comes from Antioch, California, up on San Francisco Bay. One of the hardest-working student shop members, he devoted many hours to the rehabilitation of old cars. Firearms and radio also intrigue him when there aren't any jalopies to be salvaged. Hoping to land a position in the electrical industry near 'Frisco or Denver.

ELECTRICAL



GARDNER W. EARLE JR.

GARDNER W. EARLE JR. He left Kent State University back in Ohio in June of '39, didn't get home until he had served six years with the AAF in the U.S. and over the China-Burma-India theater. Now settled and married, with two children, he lives in La Cres-centa, still calls Cleveland Heights his hometown. States no prefer-istically looks forward to whatever he can get.





ENGINEERING



ROBERT LORIMER GOTTIER ROBERT LORIMER GOTTIER An Alhambran who spent a short time at Muir College and a hitch in the USN before Tech, Bob is presently affiliated with the IRE and AIEE. He likes to dabble in electronics and model railroading, applying his vast store of learning to the intriguing problems of com-plex pike layouts. There's an M.S. in HIS future.

MALCOLM V. C. HICKEY DABNEY

Former four-striper with the Leath-ernecks in PTO, Mal has settled into an athletic existence at Tech that includes sailing, skiing, 2 years as Dabney Athletic Manager and mainstay of House teams in all sports. A Seattle man, Mal wants to stay on the west coast.



RALF ERICKSON

THROOP Did some work under Eisenhower in ETO for 3 years; genial Pres. of Throop Club, member of Beavers, interested in EE, photography, and a change in marital status to take place on graduation. Expects to leave the smoggy Southland to work in the East, with G.E. if possible.

THROOP

CARL EDWARD FOX RICKETTS, TBPI

RICKETTS, TBPi One who has mastered the difficult feat of being in many places at once, Carl has filled positions of class treasurer and vice president, Drama Club prexy, editor of a bridge feature in the Tech. Mean-while he has become a Tau Bate, and led the organization of the Instituters, IH bowling and the student shop. His home is in New Hampshire, so it's not surprising that he plans to go back east for grad work at MIT.



ALBERT ESCHNER JR. FLEMING, TBPi, T^a, HONOR KEY AI has made a well-founded bid for the honor of being Tech's fore-most volunteer. His list of activi-ties include the social chairman-ships of Fleming, Tau Beta Pi, and the ASCIT. He has appeared in several Drama Club presentations, played a mean violin in the or-chestra, lettered three years in swimming, one in aquapolo.

BOYD M. GAGE

BLACKER, TBPi BLACKER, TBPi Smooth, balding dean of Blacker, House Publicity Manager and for-mer Veep; wise Pres. of TBPi, member of ASCIT election com-mittee, social committee. Mellow dancer, organizer of dancing class. Interested in radio, tennis, music, photography also, as well as a seven-year-old son.







JEROME E. JACOBS

TBPi Transferred in as a sophomore after three years with the military, spent largely in Texas. Now chair-man of the IRE, member of AIEE, Jerry is also one of '50's old mar-ried men, has two children at this writing. Originally from Rochester, N. Y., now living at the Farm out in Temple City. Looks forward to a fifth year in his option, won't pass up a money-making opportu-nity if it's offered.

TBPi

JOHN KINKEL

JOHN KINKEL A Kansan, though not a farm boy, John graduated from Wichita Hi before coming west to settle in dulged in the usual double-E di-versions, building audio amplifiers and fiddling with any and all electronic gear his eager hands could find. This summer will find him in UCLA; come fall he will be back for grad work.

RICHARD H. PERRY

RICHARD H. PERRY Dick can remember all the way back to '36 when he started his college studies at Pacific States University. In the years since, he has served with the AAF in the Pacific, become a contented hus-band, and at long last wound up his B.S. requirements. Was a member of both AIEE and IRE. One of the vanishing number who overpopulated the Institute's col-lective farm in Temple City, he will soon go forth to seek his fortune in industry.

WILLIAM H. PROUD

FLEMING A grad of Lompoc (California) Union Hi in '43 and a veteran of three years submarine service in the Asiatic-Pacific theater, Bill has been with Fleming since his frosh year. When married he re-tained non-resident membership in the house, showed for many of the better social functions. As chair-man of the local AIEE chapter he hopes to be in on the ground floor when the good jobs are passed out.

FLEMING

ELECTRICAL

BILL LANSDOWN

FLEMING Bill started here in '42, returned in '47 after three years with the Army, a year in Wheaton College, Illi-nois. Has been Fleming a year, ran the mile for the Big Red this spring. Spent two years on cross-country and track squads. Primary interest was the Callech Christian Fellowship, which he helped organ-ize; participated in IRE and AIEE. He claims two hometowns, Walsen-burg, Colorado, and Kansas City, Kansas. Planning grad work for a year. FLEMING

MAX V. MATHEWS

MAX V. MATHEWS Max started here as another Flem-ingite, but left the confines of the Red Abode when he married back in '48. Originally from Peru, Ne-braska, he had a year at the local State Teacher's College before tak-ing off for two with the USN. Has appeared with the Beaver Band and Orchestra, he's a whiz at tennis, likes the woodsy life when he can get away for skiing, moun-tain climbing, and photography. Heading for a higher degree, al-though not sure where, he may return to Tech.











ENGINEERING

BUD LARSH

FLEMING Started Tech on an ACS scholar-ship, but found electronics more to his liking, has been head of the exclusive Electronucleonics corpo-ration. Bud is also a member of the American Rocket Society, AIEE, IRE. Until his last year he bowled with the Fleming team, defended the house in numerous bridge tournaments. Tennis star in IH competition and an ambitious hiker, he has scaled Mt. Baldy many principal interests, hints at marital alliance in future.

FLEMING

ALBERT E. MCLELLAN

ALBERT E. McLELLAN From Orland, California, Al went off to three years as a radio tech-nician in the Navy, settled down to married life before he decided to take the Tech treatment. Here he has been a participant in the activities of the AIEE, dabbled in electronics as a hobby. With one child at this writing, he is allow-child at this writing to the job of breadwinner.

ROSWELL HARRY POTTS

ROSWELL HARRY POTTS Harry comes from South Gate where he graduated from high school in '43 before going into the Army for three years Pacific duty. Having seen enough of Okinawa and Korea he returned to his hometown to marry and work for his long-awaited EE degree. Now he is setting his sights for a fat position in industry.

RONALD L. QUANDT FLEMING, TBPi FLEMING, TBPi After Santa Monica Hi in '45 Ron, like many others, took to the Navy for a year as an RT. He ar-rived at Tech fired with enthusi-asm for electronics, became a Tau Bate pledge in his junior year. Meanwhile his diversity of interests found him out for swim-ming and water polo, the Ski Club, AIEE, and IRE. A light plane fan, he bemoans the pov-erty that keeps him grounded, gets an inexpensive kick out of ice-skating. He will be going on for an M.S., naturally.

MARTIN N. ROSS

MARTIN N. ROSS From Dorsey Hi in '44, Martin tore through his first year at Tech before reporting for two years with the Navy as an RT. Back at the grind he allied himself with the AIEE and IRE, served as sec-retary to the former. Wont to while away the hours with elec-tronic gadgeteering and photog-traphy, he also claims a healthy interest in the opposite sex. Soon to be employed as an engineer.

CHARLES A. SAVANT

THROOP THROOP An Angeleno and Mt. Carmel Hi grad, Charles spent his first three college years in that delightful suburban country club, the Uni-versity of California at Westwood. Desiring to find a course he could sink his uppers into, he transferred here as a senior, became an AIEE and an active Throoper. He plans to enter grad school and con-tinue his work in the hi-volts lab.















JACK R. SCANTLIN

FLEMING, T FLEMING, T The one man who did most to keep the Old Lady over the Fleming mantel, Jack maintained the Reds' athletic spirit at an all-time high during his term as man-ager. He won his letter in soccer and was awarded an honor certifi-cate for extra-curricular work. An affiliate of the ALE, he plans to improve himself further by enter-ing another school for a law degree. ing an degree.

DANVER M. SCHUSTER

HARRY VAN AKIN

HARRY VAN AKIN Probably the only man in the class who first saw Tech as a V-12 stu-dent, Harry came west from Ari-zona after graduating from Phoe-nix JayCee in '43. After CIT—the first time—the saw plenty of ship-board duty. When it was over he retired to the Temple City Farm with his wife and daughter. Now hoping for a position in Washing-ton, D. C.

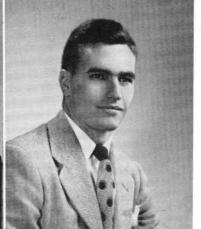
KAM L. WONG

THROOP THROOP Kam entered Tech in '48 after several years in Canton's Lingnan University, San Francisco and Pasadena JayCees. Now a San Marinan, he has been employed in his spare time as staff artist de-signing neckties for an exclusive LA. neckwear firm. He has a sin-cere desire to work toward the rehabilitation of war-torn China.

EDSEL A. WORRELL DABNEY, TBPI, T DABNEY, TBPi, T Ed is a Bakersfielder with strong tendencies to the athletic as well as scholastic. He stuck with the gridiron squad to earn a senior award, meanwhile was pledged into TBPi. His other affiliations include IRE, in which he was sec-retary, AIEE, IH tennis, bowling and diving teams. Seeks relaxa-tion w.th radio model planes and ASF.

ELECTRICAL ENGINEERING



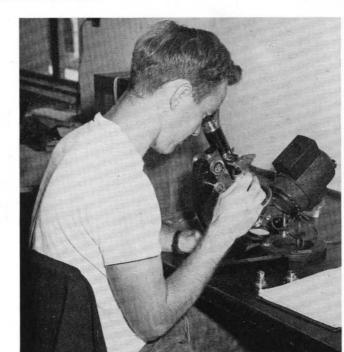


DONALD ASQUITH

RICKETTS, T RICKETTS, T A local yokel from PCC and La Canada (La Can-YA-da), Don has been a cross-country devotee and lettered in soccer. Ricke'ts mem-ber and ski fan who lists das schoene Geschlecht as his prime interest. An incurable geologist with a thirst for knowledge, he is headed for Northwestern to con-tinue his studies.

DONALD R. BAKER FLEMING, T4

FLEMING, T⁴ Now a Fleming affiliate, Don spent his first years in the house, moved out when he married in '48. A na-tive from La Mesa and a grad of Grossmont Hi, vet of the USN, now four-year letterman in foot-ball, he has also been on hoop and horsehide squads. Presided over his junior class, later served as its senior representative on the Board of Control. His plans are for grad work as a rockhound.



BILL CULBERTSON

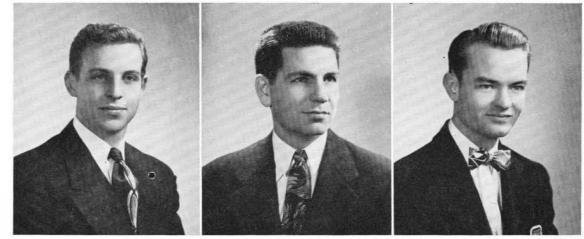
DABNEY With that name it's a foregone conclusion that Bill is a bridge tournament star, which he is. Hail-ing from nearby Glendale, he spent a year as an Aviation Cadet, began Tech as secretary of his frosh class. Married three years ago, he still retains membership in Dabney, misses few house social functions. He plans for a Tech M.S. in petroleum geology, then a job with some U. S. oil com-pany. pany.

DABNEY

DAVID L. DURHAM

RICKETTS

RICKETTS Late secretary to the Rowdies, Dave is a ready source of biting repartee; a constant, incurable doodler in boring lectures. Left Whittier to fight his way across the ETO before coming back to Tech. Squandered many an hour at the bridge table — a diversion which only geologists can safely afford. Respected as UCC by his underclassmen, he could always be counted on for frank, fatherly ad-vice. Looking for a likely oil com-pany to underwrite his future.



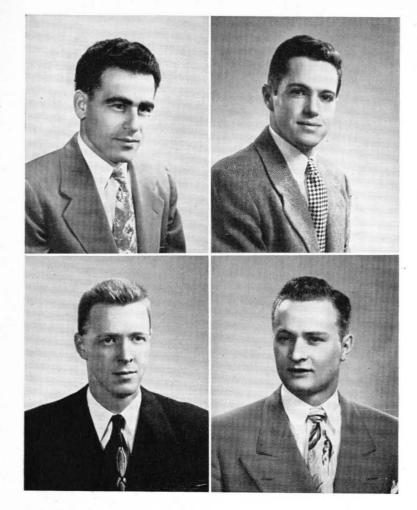


DABNEY Dabney musician and artist, played guitar for the notorious combo, remembered for a strik-ing portrayal in the Drama Club melodrama. Athletica: practice dummy for football squad. En-joys drawing and painting; present Secretary-Treasurer of Geology Club with a future as a great out-door geologist.

JIM BLOM

DABNEY, T3, HONOR KEY DABNET, T., HONOR KEY Dabney skier extraordinaire with 3 ski letters, Big Jim schlusses with the Snow Valley Ski Patrol, also took time out for a couple football letters, Varsity Club, Sen-ior VP, Business Manager for the Big T. Dabney House Haircut Cor-poration has kept him out of the hands of public barbers for 3 years; hopes to study in Europe, near a lovely ski resort.

GEOLOGY



THOMAS R. FAHY

THOMAS R. FAHY One of those who trace their Tech history back to the almost pre-war era. Tom was secretary for the campus Y back in '43. Taking a two-year break to learn the Navy RT's trade, he returned to the In-stitute burning with ambition to become a geologist. To that end he has won the General Petroleum Undergrad Scholarship and taken the First Annual Award in Field Geology. Meanwhile he achieved honor standing in the senior class, walked off with first prize in the AIME Student Papers Contest, sec-retaried the Geology Club, served with the guide service. Marriedly happy, currently resides on the Temple City farm.

Not pictured

JACK W. SMITH

A local boy from LA, Jack spent a stateside year with the Army plane jockeys, is perennially seen at Tech out on Preisler's spring season baseball diamond collect-ing letters. Present center of inter-est and activity is a pretty wife; Jack reports no further family status at present.

GEOLOGY

RUBE KACHADOORIAN

Onetime Rickettsman, now prac-tically a resident of Mudd, Rube tically a resident of Mudd, Rube is a native Californian from Fresno and Bakersfield Junior College. Saw duty with the Air Corps in the Mediterranean area, Europe. Content to sit back and enjoy life, whiles away his idle hours fishing and hunting, prefers women when other diversions unavailable. With a B.S. in his grasp he will seek employment as an engineer-ing geologist.

DAVID B. MacKENZIE DABNEY, T^a, HONOR KEY Dabney's Royal Canadian, source of humor, and barber of dubious merit, Mac was also ASCIT V.P., pioneered the combining of the charities drives, captained the soc-cer team, and engineered "Y" firesides, took an active interest in the work of the Beavers and PBAA. Fond hopes for a European grad school. school.

BRECK PARKER

BRECK PARKER Breck graduated from Phillips Academy in Andover, Mass. shortly after finishing two years with the military in the Pacific theater. Since then he has mar-ried, acquired a shiny blue Buick, and turned to the geology field for his life work. Technically Ann Arbor, Michigan, is his home town, but he likes to travel, is looking forward to more educa-tion and adventure—but not with the armed forces.

BRUCE ROBINSON, JR. DABNEY, HONOR KEY From Wilson Hi in Long Beach, Bruce took two years for a short cruise with the USN before tak-ing a bunk in Dabney. There he went on to become a yell leader, joined the Instituters, even sang with the Glee Club. Topping all this with his work on the weekly Tech and the Bio T, he earned his Honor Key in '47. Married last summer, he plans a year of grad work, then a position in industry.

LEONARD SCHULTZ

BLACKER From West Hollywood and two years in the Navy "Schlitz" brought to Blacker a fine talent for the crew team nurtured on many geol-ogy field trips, which are his great interest in life. Also joined the Instituters, played varsity volleyball and interhouse baseball, hasn't de-cided which grad school will be best. best.

BLACKER

RICKETTS

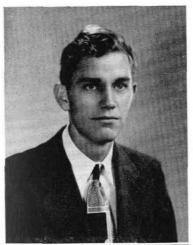
RALPH J. STONE

RICKETTS Recognized around the quad by an aternal good humor and a geol-ogists' bib overalls, R. J. graced the USNR with two years stateside and Hawaii and the CalTech De-bate squad with three years of brilliant double-talk, was also ac-tive in the YMCA and Beavers, put a couple of years service in on the football team.











STANLEY C. BOICOURT RICKETS, HONOR KEY Background of Cal Berkeley and Navy V-12, Stan Boicourt came to Tech to be Senior Prexy, Beaver, debater, ASCIT Secretary last year; threw his muscles into swim-ming, water polo, JV basketball, and marriage. When his wife lets him out, he still finds time for PBAA meetings.

BOB CRICHTON RICKETTS, HONOR KEY RICKETTS, HONOR KEY "Bermuda Bob" has the true Wheel spirit, get honor key in Frosh year, writes potpourii for the paper, managed Big T busi-ness as Soph. Past YMCA Prexy and Sec'y, Board of Control, hob-bies including sailing, fencing, a new Pontiac sedan. Will proba-bly return to Bermuda and the lap of luxury and balmy breezes.

WILBUR LAWRENCE KNIGHT

BLACKER BLACKER Represented the crusading influ-ence for the good and pure in the Tunnel, largely to no avail, spent the rest of his time chasing down collections of shells, molluscs, rocks, and a woman of long stand-ing in San Gabriel. Larry comes from a succession of home towns (Lincoln, Neb., San Gabriel, Long Beach) which rotate in cyclic pro-cession. cession.

JAMES M. MANSFIELD BLACKER

BLACKER Matt is a transferee more or less, having seen previous action in Utah U, and Texas Tech, and even some stateside duty with the AAF, before finally turning to Tech. Hav-ing settled in Blacker as a junior, he found an opportunity to show his stuff in 1H bowling, rarely failed to respond to the cry for a fourth for bridge. In odd mo-ments he dabbles in amateur pho-tography. If the lure of gold doesn't get him he will be back for grad work after a year in industry.

BLACKER





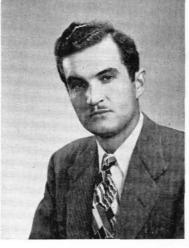
REX B. RAGON

Rex left his home in Fort Sas-katchewan, Alberta, ten years ago to fly with the AAF, ended up a captain in '46. Since that time he has been taking voice training and sung with the Beaver glee-men. He aspires to continue his music studies and travel abroad, perhaps even spend a few years at gainful employment if the pay is right.

FLEMING







GEOPHYSICS

GEORGE SAWYER

Desos.

BLACKER Genial Blackerman with a loud-speaker voice, George changed is option to rocks. Will be back to finish next year. When not scratch-ing his head over ideas at ASCIT Decorations Chairman, George digs into his other big interest, a min-ing claim for rare rose quartz, which someday may net him many pesos.

LeROY W. WEEKS Without doubt the eldest member of the class, Roy left Franklin Hi in Los Angeles when many of his classmates were starting grammar school. His military career started in '34 when he went to sea with the Navy. He sandwiched-in a year of Army life in '41 then went back to his Navy job until the year before Tech. Here he has been active in the Christian Fel-lowship; at home in Alhambra he has a wife and two daughters, ages one and three.



JULIAN BRODY

A sometime member of Blacker's notorious Tunnel Rainmaking So-ciety, Brody is most often to be found in his room pursuing his unique hobby of going through Tech in three years on a GPA with a high snake coefficient. Come all the way out to Tech from New York to escape service in the State Militia.

SAMUEL P. COOK

SAMUEL P. COOK Sam came to Tech from Phoenix UHS via the 12th Armored Di-vision. Now off-campus, he spent three years in Fleming where he was known as both music critic and skillful poker player. An erst-while ham turned to audio ampli-fiers who will declaim the merits of triodes at the drop of a hat, he kept the alley entertained with Mozart and Beethoven. Naturally, he expects to keep in the math option until his Ph.D.



HERBERT A. FORRESTER

HERBERT A. FORRESTER A denizen of the Musicale, Herb spent a year managing the busi-ness of that erudite group. Also participated in Math Club func-tions and rose to the presidency in later years. Saw two years service with the Navy before coming to Tech. A Pasadenan, he plans on continuing his grad studies in the locality so he can keep up with the Musicale.

MATHEMATICS

BLACKER

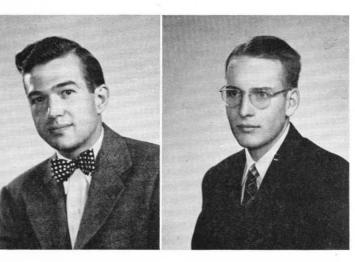
ASTRONOMY

ROBERT S. WELTE

ROBERT S. WELTE After three years in the Naval Research Lab, Washington, D. C., Bob found Tech a pleasant respite and ideally suited to his philo-sophical pradilections. A disciple of J. Dewey, C. S. Peirce, and G. H. Mead; he relaxes with ama-teur radio and ice skating. He is at present an Alhambran, will re-main so 'til the completion of his grad studies.

RICHARD S. PIERCE

FLEMING FLEMING Dick started Tech in '44, finished a year before going on occupa-tion duty in Japan. He came back in '47, lived off-campus awhile, didn't like it, finally came into Fleming as a senior. His extra-curricular life has included the Math Club and the social oppor-tunities of the Lemming calendar. He is tentatively considering the Princeton grad school for his next fow years study.



LEE W. ROSS

FLEMING A grad of Santa Ana Hi in '41, Lee went on to two years at the local Jay Cee before the Signal Corps took him for a three-year and Japan. At Tech he has de-voted two years to staff writing on the Tech, pitched in to help edit the Big T. His interests ran to classical music and science-fiction; he held membership in the Musicale and the Physics Club. the Club.

FLEMING









RAYMOND E. BROW DABNEY

DABNEY Exercised his love for officers as a cadet trainer at West Point. In-terested in chess, music, Neo-Thomist philosophy! Newman Club Social Chairman, debater. Known to fellow biologists for an erratic accumulation of basic principles and as the only pre-med in the class. Will enter USC Medical School.

BIOLOGY

SHIGERU HONDA

SHIGERU HONDA The greatest living authority on the physiology of camellias, Shigeru has worked with the Kerckhoff men since his first year, now has a graduate assistantship at the University of Wisconsin to continue his plant studies. Mem-ber of the elite Athenaeum wait-ers' union, he lists principle inter-ests as Dixieland jazz and ASF.

WHEELER J. NORTH

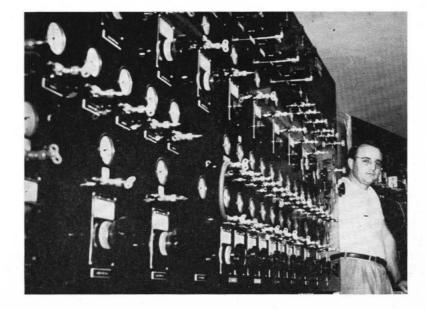
WHEELER J. NORTH Another of those to whom Tech has become a habit, Wheeler walked out of the Institute with an EE degree in '44, now finds that neurospora has electrons beat all hollow. His military service took him on occupation duty in Japan. He lent his athletic talents to coaching the diving team, spends his off time in aquatic relaxation at his La Jolla home.

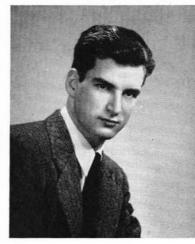


JERRY O. MATTHEWS

THROOP THROOP From Alhambra Hi in '46 Jerry came to Tech, became an active Throoper, eventually rose to the vice-presidency of the off campus organization. He has been out for all the club's IH sports, did his best in baseball and bowling. Still calls San Gabriel home, will proc-ably continue in the Bio option unless offered a good opportunity for retirement.

BRUCE STOWE FLEMING, HONOR KEY Rotund psychologist-biologist from Yonkers, N.Y. Bruce has wielded sub-editor whips for the paper and the annual, was cash-keeper of Fleming, backstage chief for the Drama Club, chairman of the Bio Club and PBAA stout-heart. An Austriaphile from overseas Signal Corps service, also known for con-tinental discrimination in wines and foods.





JARED ABELL

JARED ABELL BLACKER, T Gave up the pleasant life of Santa Monica to inquire into the mys-teries of Chemistry; objects strenu-ously to letting school interfere with his education, however. Var-sity cross-country letter, advo-cate of badminton, fencing, beer. Member of PBAA. Plans grad work and a future near the beach.

CARL ANDERSON

The pride of Pepsi-Cola and Co., Carl has been on full-tuition schol-arship since copping the statewide honors in '45. A Fleming man from Oildale, Calif., he helped keep the Oid Lady by running IH cross-country, slaved on the '49 T. Mem-ber of the Chem Club and vice-Prexy of the Bio Club, plans are for further study abroad before going to work.

FLEMING



MYRON ARCAND

BLACKER Blacker Socialwheel and guiding genius for the planning of stupen-dous parties. The aged Arcand bears a past of a year at the Uni-versity of Washington in 1941 and many years with his Uncle, spent in Texas. When Chemistry allows, likes to collect and play classical records, read, hike. Grad school contemplated.

BLACKER



RICHARD PIERSON BUCK FLEMING Pianist of modest distinction; nu-merous appearances as soloist and accompanist, active in local music activities, also in YMCA at Tech and South Pasadena. Expects to divide his future between the ap-parent incompatibles of inorganic chemistry grad work and further study and recitals in music.

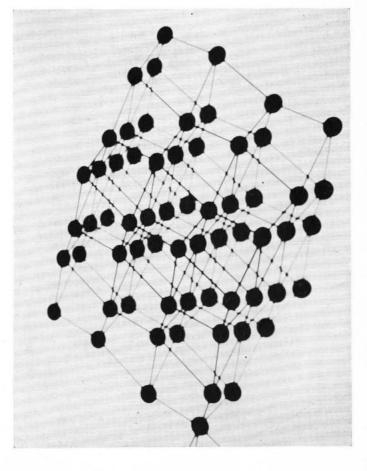
CHEMISTRY

ODELL CARSON

ODELL CARSON FLEMING, T⁼ "Ips" to his orange-picking friends, Odell was imported from Mighty Tustin UHS to bolster the Beaver line. A two-year letterman who played the end spot for three, he also played IH football and ran with the track squad of the Big Red Team. When the Glee Club needed more volume in the bass section he was there, and when the inter-alley trophy was endangered he set a new house record for per-forated tissue consumption.

WILLIAM P. COX FLEMING, TBPi, T⁴, HONOR KEY Fleming's own All-American Boy, Bill has risen to house presidency, chairmanship of the IH committee, earlier in his career was frosh veep. Has earned four varsity let-ters in basketball and captained the team this last year, received the Yesper Trophy in its first awarding this spring. Originally from Topeka and Seattle, he is now a voting Californian, has been assured a teaching position at Berkeley, where he will pursue his pre-doctoral studies.







JAMES B. HENDRICKSON BLACKER, TBPi, HONOR KEY Bohemian Blacker Pope and Father-confessor, proponent of the cultivation of leisure; striking aversion to sleep. ASCIT Publicity manager, past editor and late ne-farious columnist for the campus journal, columnist alumni mag, Beaver, Tau Bate, PBAA, bucolic hero of Drama Club melodrama, hopes to stuff with Kultur in the effete East next year.



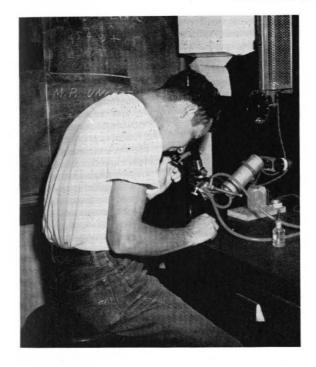
PETER HOWELL

PETER HOWELL BLACKER Always a soft touch to do other peocle's leg work, Pete became a minor wheel as Blacker Instituters chairman, 2 years on Big T ad staff, ASCIT publicity committee, and YMCA activities in the lunch club field. Somehow missed out when the letters were passed out in swimming and water polo. Plans grad work. grad work.



FLOYD HUMPHREY

FLOYD HUMPHREY Recognized on campus by his pipe and broad grin, Floyd is recog-nized by Blackerman for his excel-lent work as co-social chairman for the House. Saw the world from the deck of a destroyer in the Pacific for three years, but still maintains his good humor. He expects it to carry him through grad school next year.



JOHN KEITH INMAN

FLEMING Boasts the laudable distinction that the draft missed him by 6 days, came to Tech from Clayton, Missouri. When not officiating as chief of Tech student chapter of ACS, he may be found grinding telescope mirrors, playing the flute, piano, or phonograph. Looks forward to Hahvahd for 1951.



ROBERT R. JENNINGS THROOP, TBPi Bob came here from Muir in '48 with three years duty in the South Pacific and Japan behind him. In a short time he had racked up enough GPA to make him Tau-bait, and joined the scholars in his last year. Currently of San Gabriel, late of Duluth, he's sold on California, will stick with Cal-tech for his Ph.D.

PETER T. KNOEPFLER

PETER T. KNOEPFLER DABNEY A cosmopolite, the polylingual Pete currently lists fice de Janeiro as his home address, kept up his worldwide activities by serving the local Y as national representative. Filed the posts of Darb social committeeman. Musicale secretary and participated in activities of the Chem Club. His athletic in-clinations were directed toward IH swimming; for relaxation he en-joyed music, devoured practically everything available in the Dabney collection.





Not pictured

WILLIAM L. BURRIS

NORMAN F. JACOBSON Norm came out to the Institute from Glendale College in '47, since has married and settled in Pasadena. He is still fascinated by the marvels of modern chemistry, wants to stay at Tech a few more years, find out if it's true what they say about the chemical bond.







ARENT H. SCHUYLER, JR. FLEMING, T

FLEMING, T Senior member of the class of '50, Barry toddled into Tech in the fail of 1941, spent the next nine years in Chemical Warfare both with the Army and with Dr. Swift, lettered in soccer, member and secretary of Beavers, first post-war social or-ganizer for Fleming, member of the notorious Waiters' Union until recent marriage took him happily off-campus. Expects to teach after an MA in education.

RALPH LUTWACK '

RALPH LUTWACK One of the first chemists of the class to break into print, Ralph has been immortalized for his re-search on the Yolhard titration. He has three years with the AAF to his credit, will apply his additional G.I. time to graduate work. Two-year member of the Chem Club and a student affiliate of the ACS, he resides in Pasadena is a native he resides in Pasadena, is a native of L. A.

DAVID MANNING

Local talent from John Muir Col-lege, Dave transferred to Tech his junior year, gave his all to the football squad and TBPi. Offtime finds him collecting rocks or in-dulging a whim for music, par-ticularly singing. Apart from grad school, his future includes plans for a \$12,000 income in the year 2000 A.D.

TBPi

DONALD W. MOORE FLEMING

FLEMING From El Monte Union Hi Don went Navy for a year as an RT trainee, spent his first year off-campus, then joined Fleming as a sophomore. He served two years with the Big T, wound up writing his own obit, often wondered why CIT didn't offer a good Humanities major. In the Glee Club he sang with tha part that had the melody. Plans for the future, a civil service job, marriage in August.

WILLIS A. ROSSER, JR.

DONALD LEE SMATHERS

DONALD LEE SMATHERS A veteran of a whole year in the Navy, Don finds time to disengage himself from the clutches of Gates and Crellin and engage his wide interests in model railroading, ra-dio, piano, hiking, general seman-tics, and treasuring for Epsilon Sigma; he anticipates next year "a poor man's eye view" of Eu-rope, eventual PhD.



ROLAND N. SMOOT

FLEMING Bob's been to more schools than anybody, but he would rather talk about his experiences in the in-fantry, the long years spent in the ETO. Two years basketball man-ager, member of the Red Waiters' Union, staunch advocate of more beach and less lab, he's also a charter member of the Gentla-men's Before and After Dinner, Drinking, and Sporting Assn. Now headed for a chemist's job out on the desert.

FLEMING



CHEMISTRY



ROGER PICCIOTTO DABNET, TBPI Imported from Shanghai, China, Rog lends his cosmopolitan air to the Dabney social world, was the other half of the Corbato-Picciotto lush boudoir and Continental Club. Also Tau Bate, Treasurer of Dabney, plans for the future are involved with finding a good graduate school. graduate school.



MELVIN SPRECHER

In chronological order, he has hailed from New York, Chicago, and Los Angeles; actually gradu-ated from the Bronx High School of Science. He has been active in the Chem Club, held member-ship in the Musicale, is undecided about the coming years about the coming years.



DAVID R. VIGLIERCHIO

DAVID R. VIGLERCHIO From Madera, California, via two years in the ETO, "The Bull" has proved a quiet, efficient contribu-tor to the chemists' soaring GPA. In his eariler years he was a mem-ber of Ricketts, but has recently married, moved his books to a local address. Awarded a gradu-ate assistantship tere, he will be starting toward his Ph.D. in the fall. fall.

CHEMISTRY

APPLIED CHEMISTRY

WILLIAM D. CALHOUN

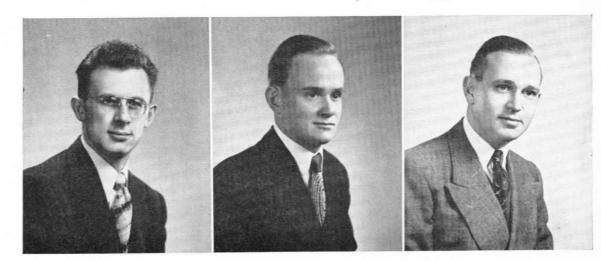
WILLIAM D. CALHOUN Jovial Glendale man with a past in the Army and a present in Dean Lacey's Chem Engineering. marriage and the intricacies of Future plans include a project to make round trip rocket fares to the moon and nearer planets with-in the reach of everyone.

PAUL T. CLARK

FIEMING FLEMING From Brown Military Academy down at Pacific Beach, Paul T. is a new addition to Fleming where he has acquired a reputation for being a notorious PE snake. He, too, served a two-year hitch as a Naval Reservist before going Tech-nical. Now an Angeleno, his hopes are pinned on industrial applica-tion of all he has learned under Lacey. Lacey.

JOHN D. HUGHES

JOHN D. HUGHES With a long history of education and military experience already behind him before he started Tech, Lieutenant Commander Hughes soon became known as an outstanding raconteur of tall sea-stories and a sympathetic lis-tener to his classmates tales of wore. An old married man, he considers Akron, Ohio, his home-town, will be heading for Cleve-land to go into chemical sales work. work.





SCOTT LYNN

BLACKER, TBPi BLACKER, IBPI A newcomer to Tech, Scott trans-ferred from Kansas U. in his junior year, previously held a soft berth in the Army medics. Played water polo and handled Blacker pub-licity work, spent his other time developing the attentions of the opposite sex. Anticipates research and development work in chem engineering.



EDWARD A. REVAY

Always the comic—except when he cooled Ch 61—Ed got here by way of the Siberian School of Salt Chemistry, UCLA, four years in the AAF. Four-time winner of the title of "World's Greatest Golfer and Gamesman," now an Arcadia commuter, he plans a future sell-ing chemicals to South African head-hunters, retirement at 26.

APPLIED CHEMISTRY

JAMES E. SCHOFIELD

Another local boy making good, Jim joined the disciples of Lacey-chem after two years prepping at Pasadena City College. His ex-perience on the Bulldog grid squad proved a needed shot-in-the-arm for the Beaver line, and he wound up with two of the coveted T's to reward his bloody exploits on the field.

T2

DON SHEPARD

DABNEY DABNEY Guiding light behind the post-war resuscitation of the "California Tech" and gallant crusader for Exhibit Day, Don was also secretary of the Beavers, vents his infrequent athletics on sailing, flying and an obscure oriental game called "Go." Connoisseur of pleasure and judge of fine liquor, his future plans are mercenary and hedonistic.

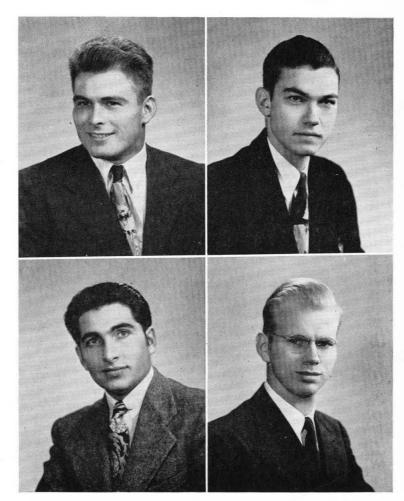
HAROLD A. STREAKER

HAROLD A. STREAKER After a stint at the "Westwood Country Club" (his own designa-tion), the Streak took up draft-dodging with the USNR in a series of electronic schools for a year before coming to Tech. Always a ready man with a deal and a fast four-bits, subscribes to the theory of hard work and retire at age 30.

JOHN J. VROLYK

THROOP "Dutch" saw the usual two-and-a-half year tour of duty with the USN, came here with the idea of using that Navy clue to boost him through the EE option. Yielding to the temptations of the flask and beaker game, he sought to put chemistry on an all-electronic basis. Still holds ham license WéEQE, was a busy Throoper, now lives a quiet married life in L. A. and Blue Jay.

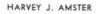
THROOP





JAMES R. ALLDER

JAMES R. ALLDER Jimmy came into Tech as a Muir expatriate in his sophomore year. He has run with the track team, possesses a widely varied store of humorous anecdotes which he re-lates in his characteristically dry style. Another native son, his home is South Pasadena. For the future he says he will get a job-eventu-ally. ally.



Blacker UCC and Senior confi-dante for Upper Frosh alley, Har-vey brings his wisdom from Shaker Heights, Ohio. Active in further-ing the athletic name of Blacker in interhouse tennis, hardball, soft-ball, manager in softball. Future plans chiefly involve graduation.

BLACKER



ALLAN BEEK

DABNEY Lured to Tech from the sunny shores of Balboa, the Stentorian Beek has mixed his homework with participation on the debate team, Tech sailing crew, volleyball team, and general interest in philosophy and music. A combination of in-terests sends him to Harvard next year for grad work in the physics of music.

DABNEY

LOUIS BOGART

LOUIS BOGART A grad of San Francisco JayCee, Louis now claims Redwood City as his hometown. Like many others he spent two years as an infantryman in the ETO. Known as an inveter-ate tinkerer with things electrical or mechanical, he wants to stick with the physics field for a higher degree. He's married, with one child now, looking forward to some quiet family life before hur-rying back to the grind.

PHYSICS

DUANE H. COOPER

TBPi IBPi Broad interests, studied art 2 years before the Army, traveled with that organization through North Africa and Italy ("Bella Napoli—Ugh!"). Apart from be-ing a physicist of honor rank, en-joys photography, sculpture, psy-chology, Tau Bate, Math and Physics Clubs, married in Senior year, future in nuclear physics.



FERNANDO J. CORBATO

DABNEY, TBPi DABNEY, IBPI In the suave, Latin manner, Veep and Socialwheel of Dabney, "pro-nounce it 'Corba-TOE." Recording Sec'y, TBPI, similar position in PBAA; fills his boudoir with mod-ern art, loves skiing, jazz, reading, hiking in the high Sierras. Bitter thoughts about Smythe, but plans grad school in physics anyway.





W. D. DEAN

THROOP THROOP Past includes Service experience vacillating between Army and Coast Guard. Future includes grad school and PhD in physics. Pres-ent is a matter of getting through Smythe. Bill will be remembered by the Drama Club for his beau-tiful wife, Shirley, who ably di-rected performances the past two years. years.

CARROLL L. FRISWOLD

CARROLL L. FRISWOLD A grad of Eagle Rock Hi and PCC who came west from Denver by way of Minneapolis, Carroll married in his junior year, settled down in Los Angeles. His extra-curricular interests run to clas-sical music and amateur radio, winter sports and tennis, breed-ing tropical fish. Winding up full-time formal education this year he goes forth to seek his fortune in the engineering field, hopes to round out his grasp of the sub-ject with additional night school courses.



JAMES B. GERHART

TBPi Scion of the name that built the latest campus addition, Jim came to Tech from PCC with ambitions of making Tau Bate. Having been through MRW once before, he found the rise to honor standing easy enough, won the coveted bent in a walkaway. A musician and photographer by avocation. Will leave his native Pasadena this fall to go east to graduate school. school.

TBPi

PHYSICS

ERIC JOHANSSON

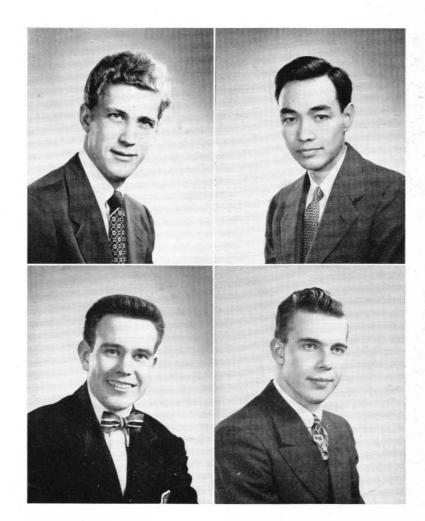
DABNEY DABNEY From Hollywood Hi n'45, Eric went into the service for a year before taking up residence with the Darbs. In the years since he has been news editor of the Tech, staff member of the Big T, a bowler on the Dabney IH team, and even found time for aqua-polo and swimming. Moreover, he de-voted many hours to pianistic re-creation and his pet hobby, pipe-carving. carving. WALTER JOHN

RICKETTS, TBPi RICKETTS, TBPi From Oklahoma City's Central Hi John went overseas with the US Army, spent 16 months in the ETO. Has served as corresponding sec-retary for the Tau Bates, librarian of the orchestra, plays violin. Was active in the Physics Club and played tennis, ping-pong for re-laxation. One of the workers on the cosmic ray cloud chamber project, he will stay on to see it finished, continue with grad studies.

RICHARD H. KNIPE

RICKETTS RICKETTS A product of Utah and grad of the Ogden High School, Dick saw a year's service in Korea before Tech picked up his option. Giving the lie to the notion that physi-cists have to be snakish fellows, he has been an all-out Instituter, served as Librarian to the Rowdies, For the coming years he hopes for little more than regular meals, a not-too-optimistic outlook, unless he is planning on a Ph.D.

JAMES L. KOHL





LESTER KEPNER GOODWIN BLACKER, TBPi

BLACKER, TBPi Quiet efficiency is the keynote of Goodwin, both as a Blacker waiter and an honor Tau Beet, holding the office of Cataloguer. Active in Physics Club, Glee Club, Math Club, and debate. Otherwise in-terested in photography, tennis, hails from Long Beach.



JOHN GREENE

RICKETTS Here is a man with a broad enough outlook to list both bridge AND canasta with his recreations. John hails from Manhattan (Kan-sas, that is), Denver, and now L.A. Other hobbies which occupy his leisure hours include record-collecting, photography and stamps. An erstwhile Gleeman, he also swam in IH competition. Will probably head for advanced de-gree when he has his B. S.

RICKETTS



KENNETH HAMMOND

FLEMING, T Enthusiastic collector of green-backs, czar of the Fleming Laun-dry Trust, sec'y of Fleming Wait-ers' Union, Man of Distinction from the Upper Alley 5 elite, Ken also found time to letter in swim-ming, work out in interhouse sports. His future, he claims, is a great black void.



RALPH LOVBERG BLACKER, TBPi, HONOR KEY With a propensity for high office, Ralph took over the Frosh presi-dency of the class, received the TBPI Outstanding Frosh bouquet, engineered ASCIT publicity, then took the ASCIT gavel. His great photographic artistry has served several big T's with fine material. Lamenting a lack of spare time, Ralph took over his last term job of Ex-prexy with relish.

MONTE L. MARKS

MONTE L. MARKS RICKETTS The Rowdies' Beverly Hill-Billy has shown his diverse talents in the Glee Club, on the staff of the Tech weekly, and in the meetings of the Interhouse Committee and the Social Committee; once served with the now-defunct Court of Traditions. Played a mean guitar and had three years of war expe-riences in Europe to draw on whenever conversation threatened to Iag. With some question still his mind about the feasibility of grad school his plans are some-what indistinct.







RICHARD M. McINTYRE

Graduated from Hollywood Hi 'way back in '43, Dick has been to UCLA, went through Utah U, with an ASTP unit, thence to Europe and the Philippines. In Dabney his activities have run to bridge, tennis and touch football. He still hasn't settled on a plan for the future, figures that, unlike most physicists, he will probably wind up in business.



RICKETTS Don came from Inglewood Hi in '46, lost no time racking up an enviable GPA, decided to devote his future to teaching. He has been a leader in the Cal Tech Newman Club and shown a spark of talent as an artist with his por-traits and abstractions. His next year will be devoted to work toward an educational degree.



DAVID C. OAKLEY

RICKETTS Dave will be long remembered for his dramatic achievements in "Maid in the Iceplant" and "Pure as the Driven Snow," but on his more serious side he enjoyed classical music and was a scholar of dis-tinction. In the student shop he served as secretary; back in Rick-etts he rose through the ranks to become head waiter. Marysville is his hometown, but he won't be set-tling there again until he has pocketed his Ph.D. RICKETTS

JOHN W. REEDS One of the few who have man-aged getting into Tech the hard way, John transferred here in '47 from nearby John Muir. He hails from Montebello, where he was a DeMolay, found time, in spite of Smythe, to go out for footbail. Not unduly optimistic about the future, he plans to work, or, lack-ing a good opportunity, to re-turn to school.

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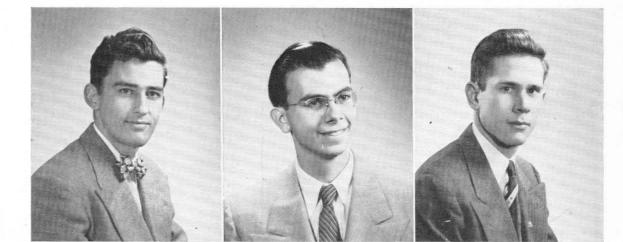
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WERNER B. RIESENFELD BLACKER, TBPi The mental prowess of Werner is attested to by all who have argued with him, and by his A in Smythe. A member of TBPi, the Math Club, and the CalTech Orchestra, he can be heard soothing himself playing chamber music for the fiddle after a hectic week. A former world traveler with the A former son now burns energy as an ardent anti-vivisectionist.

MIKE SELLEN FLEMING, TBPi, T⁴ HONOR KEY Self-appointed humorist of the class, put Lubbock, Texas, on the map, iettered 4 years in cross-country, also in track; a long rec-ord of wheelisms includes 2d Rep, band, orchestra, Election Commit-tee Chairman, Beavers, Tau Bate, and whip-wielder for the first Rose Parade Float. Mike's wit and brilliance will adorn grad school next year.





GENE G. SHAKESPEARE RICKETIS Gene is a grad of L. A.'s Wash-ington Hi, Class of '45, which he left to spend a year on Guam with the Army. Here at the Insti-tute his activities have been largely athletic; he has been on varsity and IH track squads, went out for cross-country also. Now a resident of Beverly Hills, his future is shrouded in secrecy.

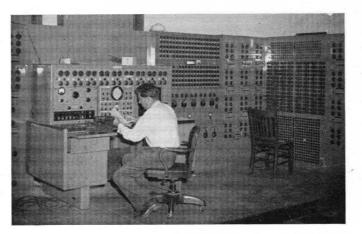
HUGH F. STODDART

HUGH F. STODDART BLACKER Still nuts about photography, Hugh is finally putting the fin-ishing touch on his Tech career after devoting the best years of his life to the attainment of photographic excellence in the Big T of '49. An erstwhile Alaskan with a yen to see Juneau again, he's looking forward to a long cooling-off period this summer.



VICTOR VAN LINT

VICTOR VAN LINT RICKETTS, TBPi Prexy of the CIT Symphony Or-chestra, treasurer of the erudite Tau Bates, flutist extraordinaire, and cosmic ray counter without peer, Ricketts' own Bird-Dog likes tennis, volleyball, bowling, and bridge, occasionally enlivened the Brewin's drab columns. A native of Raton, New Mexico, and a grad of NMMI, he plans to marry and go on to grad school.



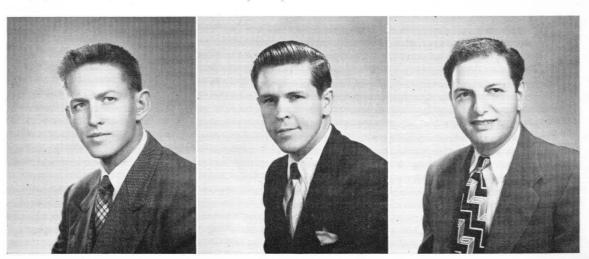
PHYSICS

MARTIN WALT

MAKIIN WALT DABNEY, T⁴ High man on the vault totem pole, Martin lettered 4 years in track, was prexy of Varsity Club, Veep of the Tau Brains, strong man on Dabney interhouse teams, listed presently as engaged to an early marital future; apparently tired of studying, Walt's future is quoted as "on to (sob!) grad school, somewhere."

WILBUR A. WIKHOLM After taking a diploma from L. A. Hi in '43, Wilbur joined the AAF, soent his training period in Oua-chita College, Arkadelphia, Ark. Back in '46 he was a Blacker boy, then married, and transferred his loyalties to Throop. Somewiat musically inclined, his accom-plishments include both trumpet and accordion. Future plans are for a grad degree. for a grad degree.

STANLEY A. ZWICK Four years with the Band, three in the Math Club, one-time chair-man of a local AVC chapter, Stan has been more than just active in his stay here. After his soph year he left Rickeths to marry, moved out to Temple City, now has one child. A four-year Army vet and native of Cleveland, Ohio, his present aim is a Ph.D.



JUNIOR

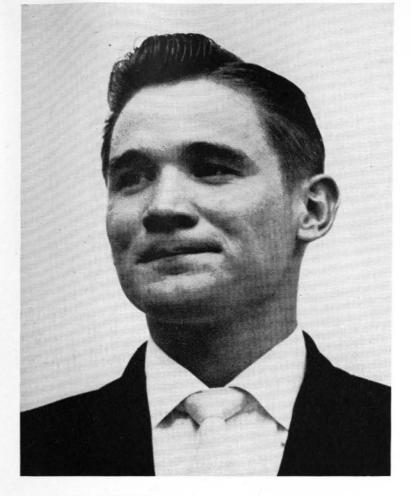
Led by the able, willing, nay, even eager President Dallas Peck (a geologist), the Junior class survived another year at Caltech, somewhat to the surprise of its teachers. Events got off to a good start when four of seven of the judges of the Mudeo managed to escape being dunked in the black goo. Headed by athletic manager Ray Greutert and treasurer Hiroshi Kamei, the judges made a noble attempt to railroad through a Frosh victory, but couldn't quite make it.

Second term saw the class pull a third in interclass track competition. Against strong opposition, Art Miller and secretary Pete Mason managed to break interclass records for the discus and the twomile run. Like results are expected next year.

Climax of a highly successful Junior-Senior Garden Party was the rapid descent of Roland Berner through the dance floor. No one was hurt, but his date was slightly jarred. The term ended with an exceptionally fine Prom at the more-than-ample Los Angeles Breakfast Club.

PETE MASON, VICE-PRESIDENT





DALLAS PECK, PRESIDENT



CLASS



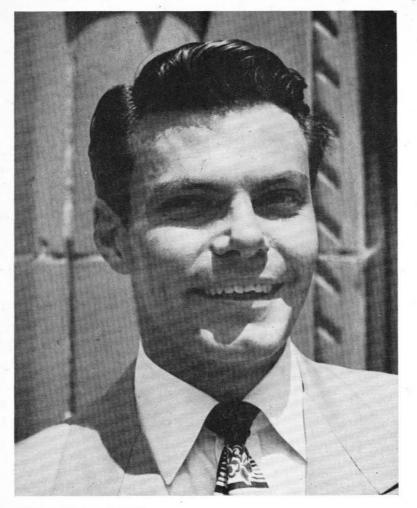
RAY GREUTERT, ATHLETIC MANAGER

HIROSHI KAMEI, TREASURER

BOB COBB, SECRETARY







In the perpetual give-and-take between students and school the class of '52 has been a veritable Horn of Plenty, giving for the rich beyond measure, to the everlasting glory of sophomoric traditions and to the utter dismay of present and future frosh who must somewhere find the tremendous strength of spirit and outstanding leadership to rise to its lofty heights of scholarship and achievement.

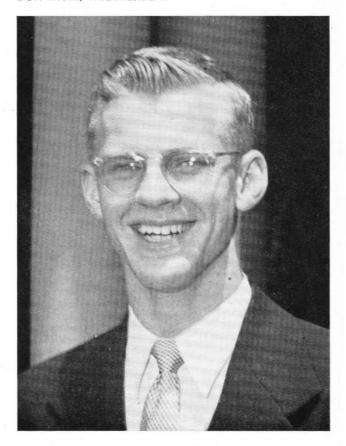
It goes almost without saying that such a superior class swept every event in the annual Frosh-Soph Mudeo and turned out in force for the Frosh-Soph Dance. While the Frosh muttered about the high costs, Sophomores relaxed in the secluded atmosphere of Dabney Hall sipping Reddeath-and-ginger-ale and dancing to the music of Hal Lomen's Orchestra.

Another small indication of the great and diversified talent of the Machine of '52, to be mentioned briefly in passing, was a triumph in the Interclass Track Meet, establishing without reasonable doubt the superiority of the class.

JOHN NOBLE, PRESIDENT

SOPHOMORE CLASS

DON TAUTZ, VICE-PRESIDENT





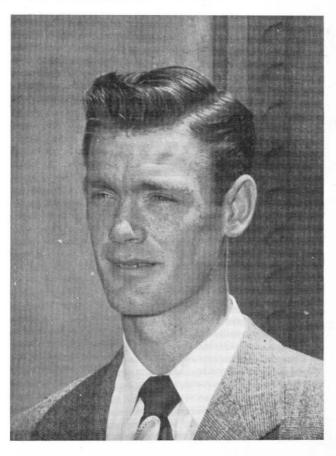
NOT PICTURED

ALAN HABER, SECRETARY FIRST-SECOND TERMS

GILBERT KITCHING, TREASURER



LEON MICHAELSEN, ATHLETIC MANAGER



JIM LATOURRETTE, PRESIDENT



FRESHMAN

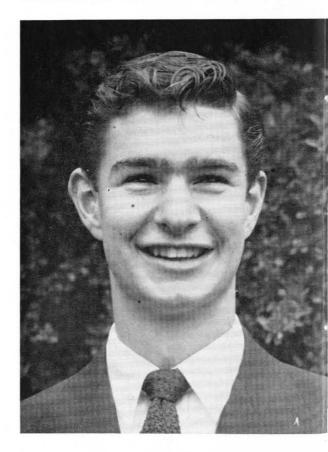
Inspired by speakers at the New-Student Camp, the class of '53 turned out in great numbers for all extra-curricular activities. The Frosh football squad almost outnumbered the Varsity, and it became the first Caltech team to win a football game since the war.

Among the memories of the members of this class will long remain thoughts of the Frosh Tea Dance, the guarding of the firewood previous to the annual Pajamarino, and the Frosh-Soph Dance which the class of '53 sponsored after being defeated in the annual Mudeo.

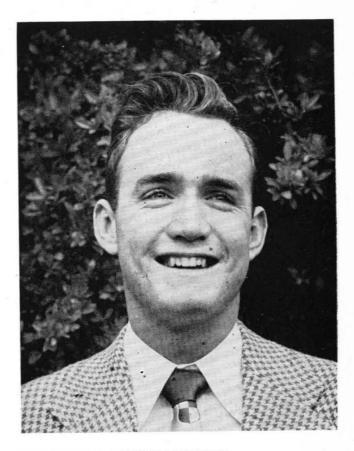
After recovering from the shock of those first midterms, class elections were held, and Tom Janssens, acting C h a i r m a n, stepped down to make room for the class officers: James LaTourrette, President; Neil Stefanides, Vice-president; Angel Ottati, Sec.-Treas.; and John Gee, Athletic Mgr.

otticers: James La lourrette, President; Neil Stefanides, Vice-president; Angel Ottati, Sec.-Treas.; and John Gee, Athletic Mgr. At the start of the third term a group of freshmen illustrated the spirit of cooperation that existed in the class as the "Section F History Outline" made its appearance. As the term wore on the weather grew warmer, so the class topped off an eventful freshman year with a beach party held at Victoria Cove.

NEIL STEFANIDES, VICE-PRESIDENT



CLASS



NOT PICTURED LYLE HOAG, FIRST TERM SECRETARY-TREASURER PAT FAZIO, FIRST TERM ATHLETIC MANAGER

TOM JANSSENS, FIRST TERM PRESIDENT

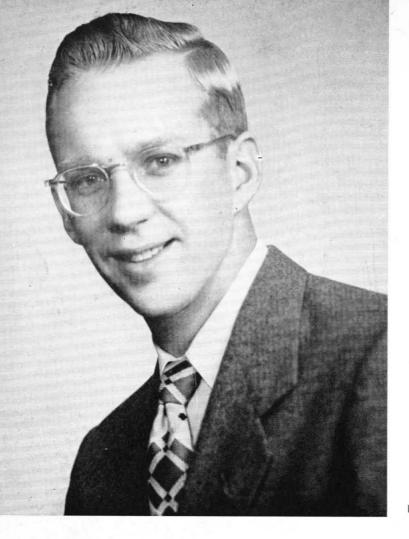


JOHN GEE, ATHLETIC MANAGER











DAVID MacKENZIE, VICE-PRESIDENT

RALPH LOVBERG, PRESIDENT

BOARD OF DIRECTORS





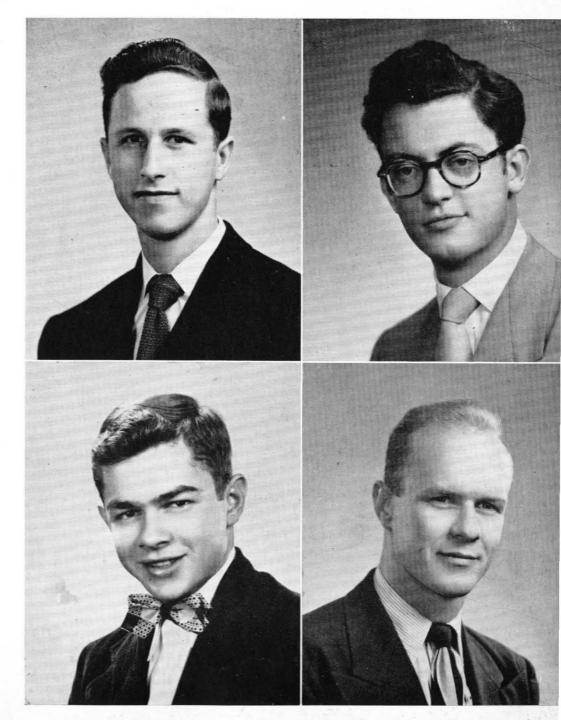




OLIVER GARDNER, SECRETARY

JOHN FEE, TREASURER

WILLIAM FREED, FIRST REPRESENTATIVE



STAN GRONER, SECOND REPRESENTATIVE JAMES HENDRICKSON, PUBLICITY MANAGER

BERT SNIDER, RALLY COMMISSIONER NOEL REED, ATHLETIC MANAGER



CHAIRMAN DAVE MacKENZIE

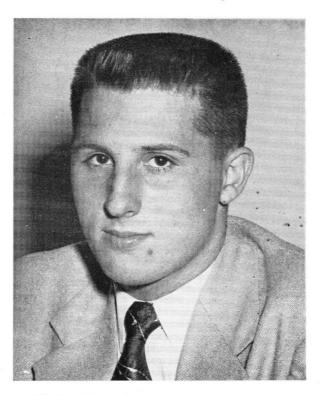
BOARD OF CONTROL

The Board of Control has the important responsibility of insuring the proper operation of the Honor System of Caltech. It also functions as a court before which all violations of those found guilty to the faculty. The Board of Control is made up of eleven men. two members elected from each class, and the President, Vicepresident, and Secretary of the ASCIT. The Vice-president serves as Chairman of the Board.

STANDING: JACK MCEWING, DON BAKER, FRED WOOD, DON ROYCE, BILL WISE, JERRY ROSS SEATED: DICK RODBURY, NEAL PINGS, DAVE MacKENZIE, OLLY GARDNER



NEW OFFICERS



PRESIDENT-ELECT ULRICH MERTEN

BACK ROW: FRANK LUDWIG, DAVE HANNA, ULRICH MERTEN, PETER MASON, PAT FAZIO FRONT ROW: BOB DAVIS, OLLY GARDNER, STAN GRONER, BOB STANAWAY





ELECTION

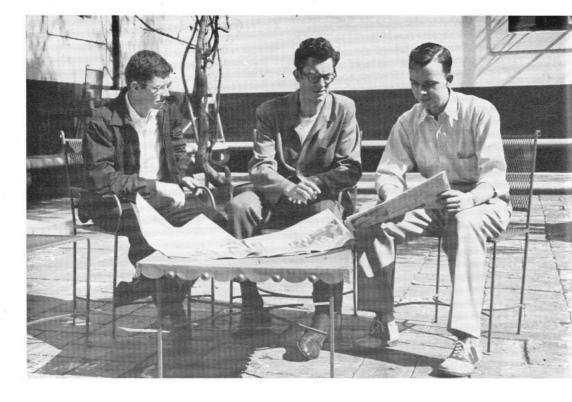
COMMITTEE

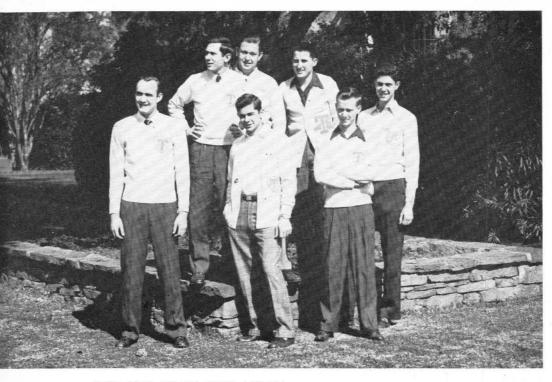
"CRUSHER" REED, "FINGERS" SELLEN, "SLIM" HOWELL, "SPIDER" MARKOFF, "DIRTY" COBB, "SLUG" KNIPE

HOWELL, HENDERSON, BOPPART

PUBLICITY

COMMITTEE



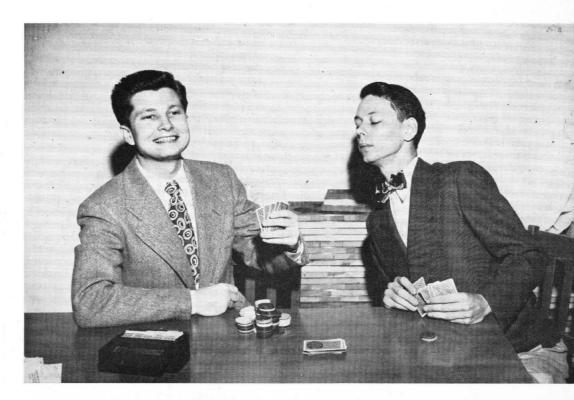


BACK ROW: SELLEN, EISEN, MERTEN FRONT ROW: JANSSENS, SNIDER, LUDWIG, GOERKE

RALLY COMMITTEE

THE LITTLE T

CO-EDITORS SMYTH AND HILDABRAND







BOB KURLAND, MANAGING EDITOR

EARL HEFNER, EDITOR

CALIFORNIA TECH

EDITORS-SITTING: MICHAELSEN, STEESE, STOWE, STANDING: WRIGHT, PARNES



CAMPUS BREWINS WRITERS





BILL BRADLEY, BUSINESS MANAGER



BUSINESS STAFF: STEESE, BRADLEY, WALKER

ASCIT subscribers found a new look to the California Tech upon returning to school last September. Notable among the changes were a new headline type, and a new staff. The large staff, headed by Editor in Chief Earl Hefner, worked together smoothly, and had only a minimum of headaches, gripes, and irate faculty members to contend with.

Assisting the Editor in Chief were: Bob Kur'and, Managing Editor; Bruce Stowe, News Editor; Bill Wright, Feature Editor; Leon Michaelson, Sports Editor; Charlie Steese, Copy Chief; and Bill Bradley in his fourth year as the capable Business Manager of the Tech.

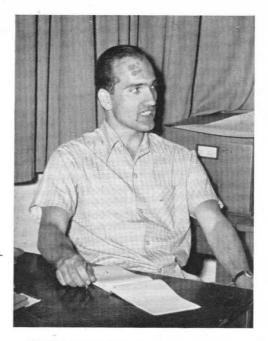
The staff members enjoyed the first annual Tech Staff Clambake early in the second term, as they introduced what they hope will become a yearly tradition. Since a large part of the staff will be returning next year, the outlook for the future is encouraging.

GOERKE, BENJAMIN AROUND TABLE: SELLEN, TAUTZ, ENGHOLM, ESCHNER, MALANOSKI, DRURY, STARR, DAVIS

STANDING: STANAWAY, MERTEN, LARSH, WEIL, HABER, MASON, VARTANIAN, CRICHTON, GRONER, WHITNEY, STRANAHAN,



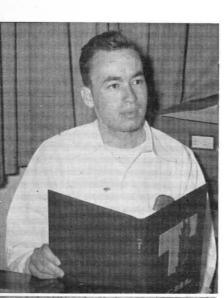




TONY MALANOSKI, MANAGING EDITOR

JON GOERKE, EDITOR

THE BIG T



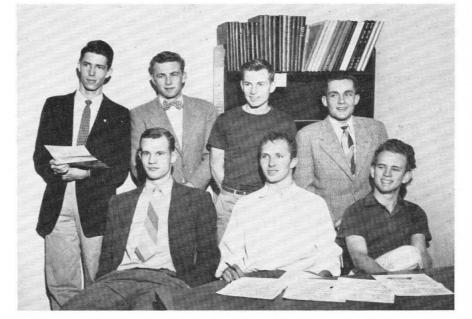


JOE BOOKEE, ART EDITOR

BOB PARNES, BOB SMITH BILL WRIGHT, PHOTOGRAPHY EDITORS EDITORS: DON MOORE, SENIORS; BOB KURLAND, FACULTY; DAN LE-MAY, SPORTS; BRUCE STOWE, HOUSES; CHARLIE STEESE, ACTIVITIES







JAMES BLOM, BUSINESS MANAGER

BUSINESS STAFF: BACK ROW: STEESE, WALKER, MENDENHALL, QUANDT FRONT ROW: TYSON, BLOM, WRIGHT

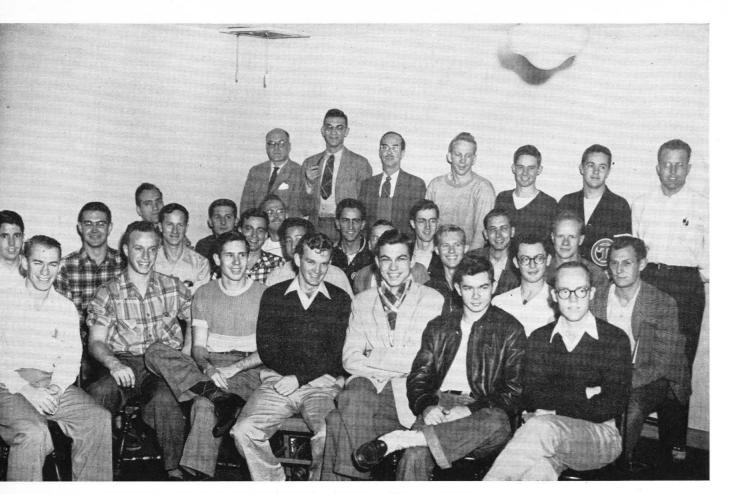
Long, long before this year's Big T was distributed. Art Editor Joe Bookee's striking cover had been delivered in quantity to the printer. Not wishing to be judged soley by our cover, however, the rest of us on the staff saw to it that our contributions came in closer to the deadline date.

Great were the vicissitudes of things before this day, however, with Photography Editor Bill Wright being spelled for a time by Bob Smith and Bob Parnes, and Faculty Editor Bob Kurland finding that after finishing his section, he was to gather and edit material for the theme article on Campus Culture.

Much credit should also be given to Don Moore, Seniors Editor; Charlie Steese, Activities; Bruce Stowe, Houses; and Dan Lemay, Sports. We are most grateful, too, for the fine divisional pages designed and executed by Ralph Lovberg with Hugh Stoddard.



FRONT ROW: HENDRICKSON, SOULE, MICHAELSEN BACK ROW: VARTANIAN, BENJAMIN, STRANAHAN, CHAMER



STANDING: EAGLESON, DRURY, STRONG, LOYBERG, COBB, MacKENZIE, FEE 3RD ROW: MALANOSKI, MERTEN, STONE, BOICOURT, COX, FREED, REED 2ND ROW: HEFNER, ROYCE, GRONER, BRADLEY, KAM, PAUL, ERICKSON, HENDRICKSON, SCHUYLER FRONT ROW: PFEIFFER, MARKOFF, SELLEN, PRESTON, SHEPARD, SNIDER, WOOD

BEAVERS

1949-1950 was another year of busy and varied activity for the Beavers, the campus service and honor organization.

As in the past, Beaver activities included organization and management of the extremely successful Student Camp, cooperation with the Rally Committee in staging the annual Pajamarino, and a host of other services. The Athletic Department was assisted in cecuring referees for interhouse sports and ticket collectors at intercollegiate games. The Guide Service, part of Tech's best publicity, continued under Beaver direction. With an eye toward the future, Alumni Placement Talks covering phases of job opportunity were sponsored each Tuecday night in the different student houses in cooperation with the Alumni Association. These talks, originated last year, have proved to be increasingly popular and valuable. One of the most important and pleasant services provided by the Beavers was the expanding program of informative talks about Caltech given in high schools throughout Southern California. The continuing success of this program seems guaranteed.

The Beaver meetings at faculty members' homes one Wednesday night each month were particularly valuable in bringing mutual problems to the fore. This past year the organization has been under the active leadership of Walt Pfeiffer, President; Fred Wood, Vice-president; Barry Schuyler, Secretary; and Dan Markoff, Treasurer.

In the future, the Beavers look forward to broadening their participation in campus activities, particularly with an eye toward widening the interests of Tech undergraduates in the community about them.

TAU BETA PI



BACK ROW: GOODWIN, VAN LINT, FOX, ESCHNER FRONT ROW: JOHN, GAGE, CORBATO

JOHN BJERKLIE, GALT BOOTH, DUANE COOPER, FERNANDO CORBATO, WILLIAM COX, EDWARD DAVIS, BAIN DAYMAN CECIL DRINKWARD, ALBERT ESCHNER, CARL FOX, BOYD GAGE, ABRAM GEORGE, JAMES GERHART, LESTER GOODWIN WILLIAM HAEFLIGER, JAMES HENDRICKSON, JOHN HOLMES, JAMES IBERS, JEROME JACOBS, ROBERT JENNINGS, WALTER JOHN.

JOHN JOHNSTON, ROBERT KURLAND, THOMAS LAYTON, RALPH LOVBERG, SCOTT LYNN, DONALD MacDOUGALL, DAVID MANNING





CRAIG MARKS, PETER MASON, JAMES McCALDIN, JAMES McQUISTON, DALLAS PECK, ROGER PICCIOTTO, RONALD QUANDT WERNER RIESENFELD, JOHN ROGERS, DWIGHT SCHROEDER, MICHAEL SELLEN, VIRGIL SIMS, WINSOR SOULE, RICHARD TAYLOR GEORGE TRILLING, VICTOR VAN LINT, MARTIN WALT, WILLIAM WHITNEY, EDSEL WORRELL, RICHARD WRIGHT, WILLIAM

WRIGHT

NOT PICTURED: ELWOOD BRATNOBER, FRANKLIN GOODMAN, IRVING ODGERS, EDWARD STERN

TAU BETA PI

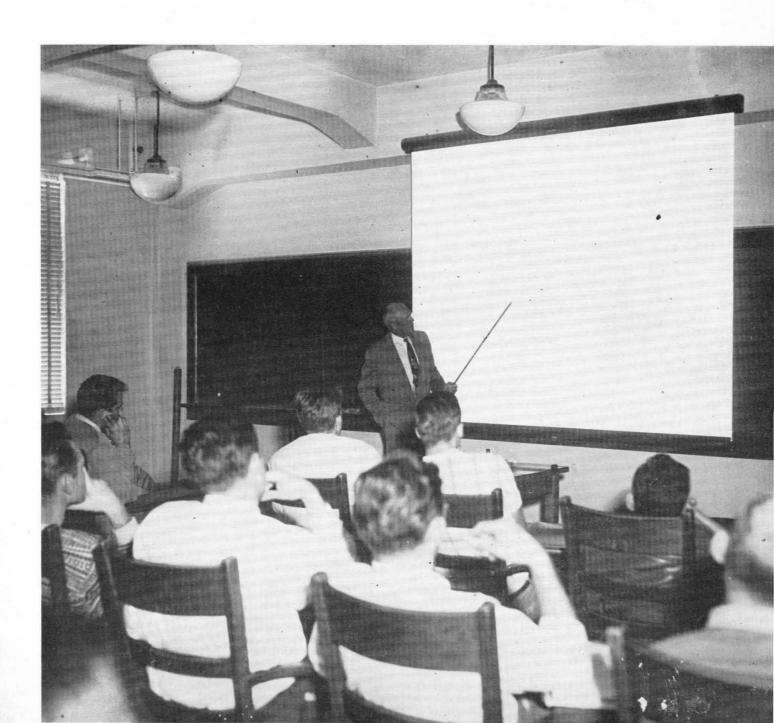


The CES is a group consisting of the student officers of the five engineering societies represented on campus and their faculty advisors. The chairmen of the ASCE, ASME, SAE, AIEE, and IRE with the aid of professors McKee, Hollander, Kyropoulos, and Pickering, sponser one program from each group every term. These programs are usually such that they have a wide interest for all engineers and do not require any specialized knowledge of their audience.

The purpose of these meetings is to encourage interest in subjects outside the field of any one society. By giving students an insight into many different fields, these programs aid greatly in guiding their choice of an option and in choosing the type of work they will do after graduation. The Consolidated Engineering Society gives the under classmen a chance to become familiar with activities of the different engineering societies both on and off campus.

The programs offered by the CES this year included many prominent speakers and several fine movies. The programs were on such varied topics as the manufacture of rubber, reinforced concrete, and fuels for high compression engines.

CES





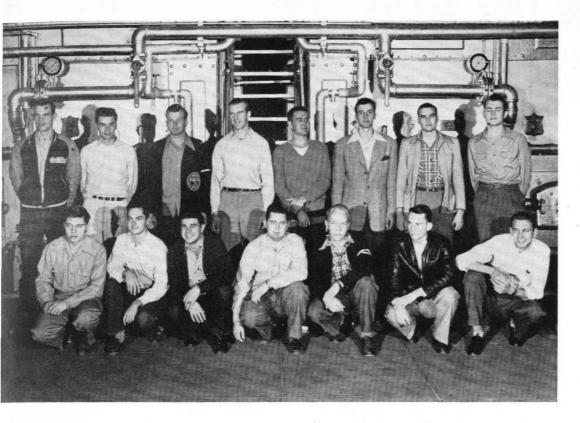
SAE

BACK ROW: CUSE, CONNOR, SIMS, STILLMAN, SPENCER 3RD ROW: BOWERMAN, BOWEN, MANGIN, FAIRALL, FREED, LEMAY, SKOGLUND, SOULE 2ND ROW: KYROPOULOS, HALL, WILCOX, NOBLE, WAGNER FRONT ROW: BAILEY, PITTON, GILLINGHAM, MARKS, WILLIS, NEWMAN, WALKER, LARSON

ASCE

BACK ROW: MUNRO, SYLVIES, SCHMID, POINDEXTER, SCHROEDER, MONTGOMERY, DRURY, STAUFFER, BARRIE 2ND ROW: McKEE, HIGGINS, OSWALD, KRESTON, EILAN, BLANCHARD, FEE, MARKOFF, DRINKWARD, KENDALL, MESARA, GEORGE, SMITH KNEELING: EDWARDS, HALE, MacDOUGALL, HOWARD, HEFNER, PARKER, KAM, OTTESTAD, JENNINGS, HEDRICK

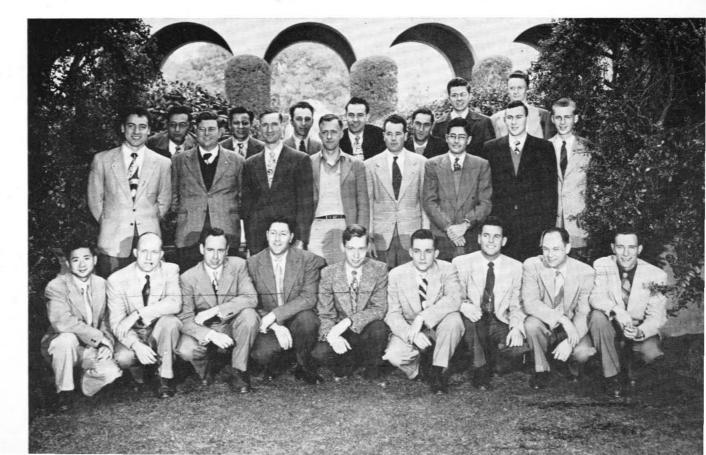




ASME

KNEELING: WRIGHT, LEMAY, MANGIN, STAAT, SIMS, SPENCER, FREED STANDING: TYSON, RAINS, STERT, MARKS, ROYCE, MOSICH, WHITING, STILLMAN

KNEELING: WONG, McLELLAN, POTTS, ROSS, COULTER, QUANDT, ESCHNER, GAGE, PROUD 2ND ROW: SAVANT, GOTTIER, LANSDOWN, PERRY, JACKSON, TRILLING, BASIN, DAVIS BACK ROW: BASS, WORRELL, JACOBS, SAVANT, MAYNER, DEGRASSE, LARSH

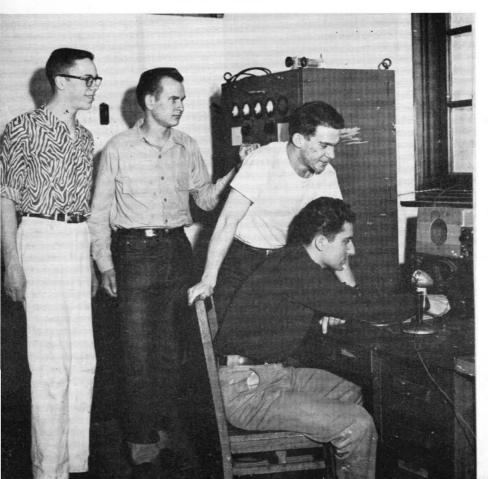


A I E E



STANDING: MAYNER, BOOTH, FEE, ESCHNER, THIELE, GOTTIER, BASS, LARSH KNEELING: GAGE, PERRY, QUANDT, JACOBS, WORRELL, ROSS

RAMBOW, WEBBER, PAULING, MADDEN



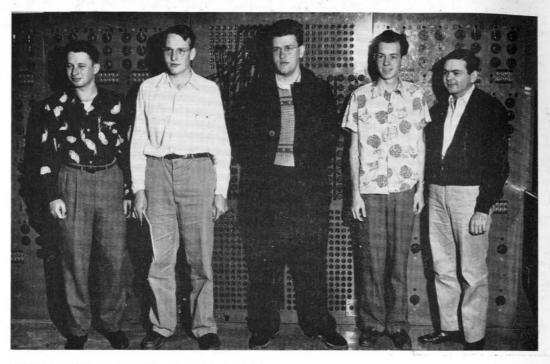
RADIO CLUB W6RRO

Many of the old boys turned up again this year, and with the help of hairpins and other structural material the club pushed a signal out to the far corners of the globe with increasing regularity.

Bob DeGrasse, W71CV, President; and Bob Madden, W6EMF, Trustee, served as officers for the club this year.

Regardless of the lack of equipment, there has been increasing activity. As the number of hams increases in the incoming frosh classes, much expansion is anticipated.

MATH CLUB



WALTER, PIERCE, FORRESTER, DEVERILL, COOK

BIOLOGY CLUB

3RD ROW: WEBBER, NORTH, SUTTON, VERDIER, BROW 2ND ROW: KUBIK, HABER, MATZNER, HENDRICKSON, APPLEMAN, ANGELILLO, HIRSCH SEATED: JONES, BUTLER, BATES, STOWE, STARR, CALLAGHAN, LUDWIG





PHYSICS CLUB

FIRST ROW: CORBATO, KEIR, GOODWIN, JOHN, DESSLER, ROSS, RIESENFELD, LINDHOLM, GERHART 2ND ROW: GOERKE, VAN LINT, WALT, STRATTON, GEHRELS, LAFF, LAYTON 3RD ROW: BADER, BROWN, GREENE, PFEIFFER, FLYNN, MERRIFIELD, CAIN 4TH ROW: SWEET, MARSHALL, SHAKESPEARE, THIELE, OAKLEY, BAGGERLY, EILENBERG, ENGHOLM, BOOKEE, PARNES

DEBATING

For the first time in quite a while, Tech's debaters had a full time speech instructor as their coach this year. Dr. Lester McCrery was the new man in charge, and under his leadership the squad participated in all the major debate tournaments on the coast.

participated in all the major debate tournaments on the coast. The squad, with Ulrich Merten, as manager, through with enviable records at Stanford, UCLA, in the third annual Caltech tournament, and in the Pi-Kappa-Delta tournament at College of the Pacific.

Once again this year, Tech could take pride in having a team which piled up good records, and in presenting one of the best tournaments in the West, in which teams from twenty-six different colleges participated.

BACK ROW: MERKEL, BHANJ DEO, ROGERS, BEEK, DIBBLE, FAIRALL, WHITE, SMITH SEATED: GRONER, MERTEN, McCRERY, CALLEY, GARDNER



DR. LESTER McCRERY, ADVISOR



LARRY STARR, ETT PARKER, GEORGE ABELL, DAVE OAKLEY, PETER PAULING, LILLIAN KICENUIK, AGGIE SHAW, JIM HENDRICKSON, CARL FOX, LINDA PAULING, JESSE WEIL, PETER VERDIER, SHIRLEY DEAN, JACK SCANTLIN, DON SHEPARD, AL HABER, TOM COONS, AL ESCHNER, FRED WOOD, BRUCE HEDRICK, TONY MALANOSKI, BRUCE STOWE, ROY KIER

DRAMA

CLUB

"Virtue Triumphs Over Evil" screamed the headlines as the Caltech Drama Club presented its annual play, toward the end of the second term. The hilarious comedy mellow drammer, "Pure as the Driven Snow," or "A Working Girl's Secret," fraught with purity, villainy, and nobility in many tense and riotous situations, welded into a unit by the superb direction of Shirley Dean, was enthusiastically received by an appreciative audience.







YMCA

WES HERSHEY AND BOB CRICHTON

This year the "Y" has continued to grow under the leadership of its officers: Bob Crichton (President), Dick Libbey (Vice-president), John Lewis (Secretary), Joe Cain (Treasurer), Peter Knoepfler, (National Representative), and Vern Edwards (Publicity), and the active guidance of Wes Hershey, (Executive Secretary). The "Y" has continued to sponsor a fine program of Luncheon Clubs, Faculty Firesides, meeting

The "Y" has continued to sponsor a fine program of Luncheon Clubs, Faculty Firesides, meeting the Freshmen, Forums, the Frosh Tea Dance, and religious fellowship groups. In the attempt to search for campus needs to fill them, the "Y" also sponsored Faculty Luncheons, a Graduate Orientation and a new improved Radio Roundtable.

As usual the campus showed its support for the "Y" program by oversubscribing one quarter of the "Y" budget.

Major responsibilities were carried this year by: John Boppart, Forums; Dick Libbey, Upperclass Luncheon Club; Bob Kubik, Frosh Luncheon Club; Dick Buck, Church Relations; Phil Orville and Walt Eager, Evening Groups; Dave MacKenzie, Firesides; Leo Baggerly, Frosh Tea Dance; and John Lewis and Barney Engholm, Radio Roundtable.

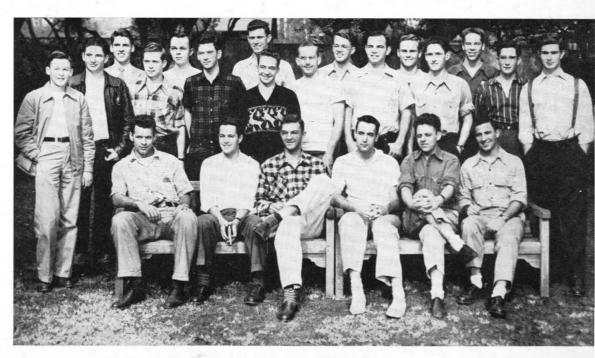
The number of really active students in the "Y" has grown rapidly this year, and the Caltech delegation to Asilomar was one of the largest and most active in the Pacific Southwest Region. During the year, Board Members and many friends of the "Y" generously provided funds for

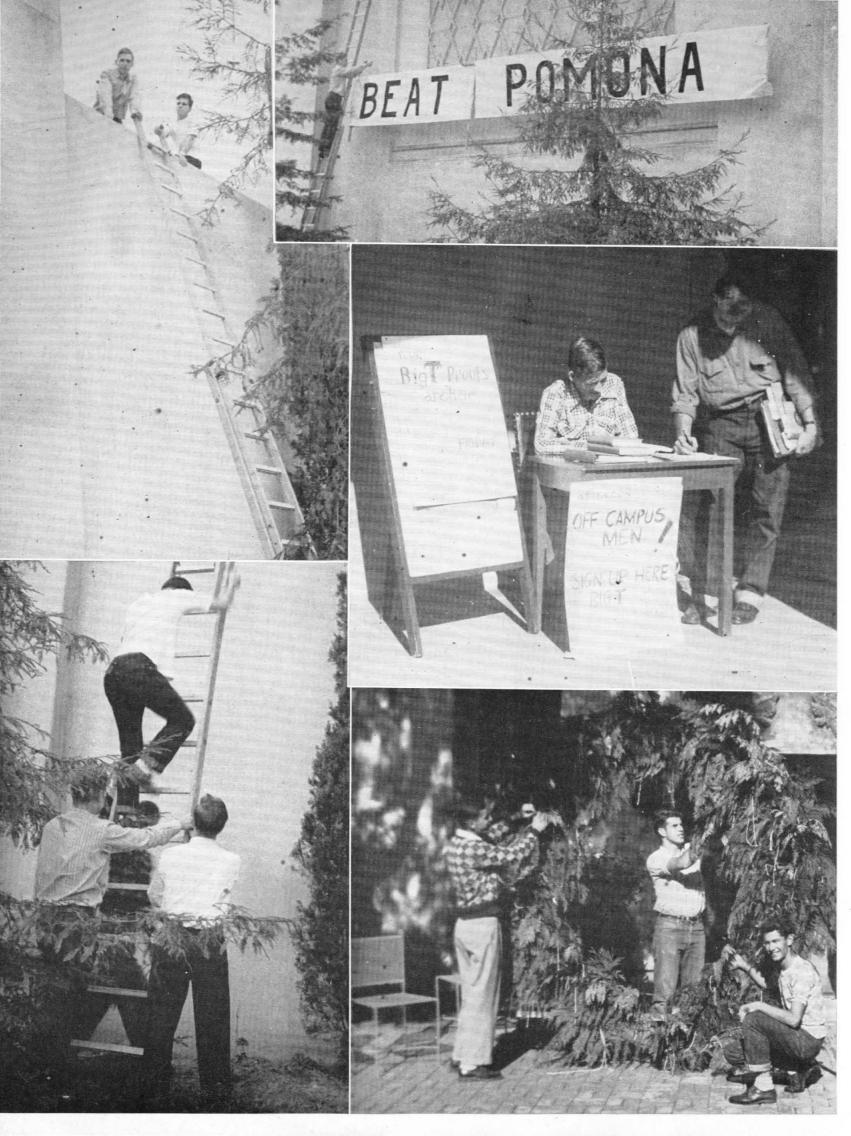
During the year, Board Members and many friends of the "Y" generously provided funds for a new residence right next to the campus. This will be the home of the Executive Secretary and will be built this summer.

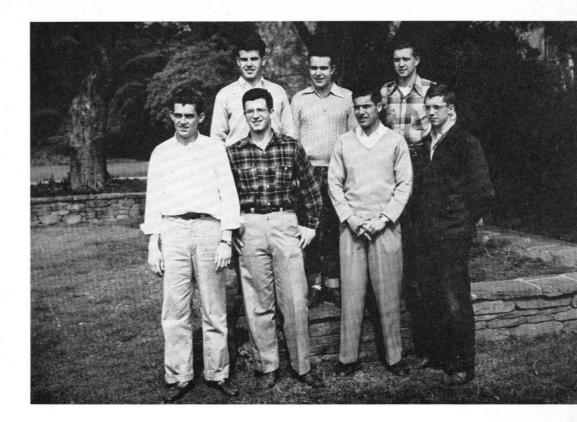
3RD ROW: OGILVIE, BOPPAT, LIBBEY, CONNOR, KUBIK, RAMBOW

2ND ROW: JACKMAN, DAILY, CAIN, INGLIS, ROMINE, STONE, ENGHOLM, BADER, STARR, STEFANIDES

SEATED: EDWARDS, MacKENZIE, DRURY, CRICHTON, KNOEPFLER, McEWING







FRONT ROW: MORRISON, POLK, FINK, HOWELL

BACK ROW: CALLAGHAN, KNIPE, CAIN

INSTITUTERS

During the past year, the Instituters have initiated a new tradition of school service here at Caltech. They have accomplished something which has been needed here for a long time; that is, an active sharing of the work that goes along with student activities among a large portion of the student body.

During this, the second year of their existence, the Instituters have grown to 180 members, under the leadership of President Norm Fink, and Vice-President Ted Polk. The activities of the Instituters in each of the houses are coordinated by a house chairman elected for a period of one term.

Some of the major projects accomplished this year were: distribution of the Big T, decorations and clean up for all three ASCIT dances, acting as spotters at cross country meets, making posters, signs, and banners, and signing up off campus men for Big T photos.

The Instituters represent one of the largest and most active service organizations on campus.





STRATTON, MARKOFF, MacKENZIE, FREED, PFEIFFER, LIBBEY, HOWARD, GRONER

HONOR KEYS

JAMES BLOM, WILLIAM COX, CARL FOX, WILLIAM FREED, OLIVER GARDNER, STAN GRONER, JAMES HENDRICKSON RICHARD LIBBEY, RALPH LOVBERG, DAVID MacKENZIE, ANTHONY MALANOSKI, ULRICH MERTEN, LEON MICHAELSEN, ROBERT PARNES NOEL REED, DONALD ROYCE, MICHAEL SELLEN, BERT SNIDER, CHARLES STEESE, BRUCE STOWE, JESSE WEIL





BAND

SEATED: ISRAELSEN, JOHNSTON, DEGRASSE, VARTANIAN, BAILY, MARION, STANTON, LAFF, SAMPSON STANDING: KILLGROVE, WEIL, CONNOLLY

MUSICALE

BACK ROW: GERHART, LINDHOLM, CALLEY FRONT ROW: KNOEPFLER, SWEET, ADLER





BACK ROW: STEESE, CATTERLIN, TWINING, KAM, NEWMAN, DEAN, CARSON FRONT ROW: VAN LINT, DAILY, HOUSER, JONES, MERTEN, MOORE, DENTON

TWO SCENES FROM "SPOOKS IN THE BASEMENT"



GLEE CLUB

With the presentation of J. S. Campbell's original operetta, "Spooks in the Basement," the Orchestra and Glee Club provided the high point of Caltech's musical season. The comedy of superstition in the physics department was well received by a full house at its world premiere, in Culbertson Hall. Lauris Jones directed the two organizations which were headed by Jim Denton, as Orchestra president, and Ulrich Merten, as Glee Club president.

Dr. Hunter Mead continued to serve in his position of faculty sponsor of both organizations, as well as of the Band and Musicale, and helped give Tech a very successful musical year.



LAURIS L. JONES, DIRECTOR OF THE ORCHESTRA AND GLEE CLUB

ORCHESTRA

BACK ROW: CALLEY, MATHEWS, SOUX, DENTON, BIELER, SAMPSON, JOHN, ANTZ FRONT ROW: TAYLOR, BENJAMIN, VAN LINT, DIXON, APPLEMAN, KOONS, ELLIOTT



McKINNEY CONTEST

This page of printed matter represents what the editor regards as one side of current Caltech opinion on a problem of general cultural interest. It is a portion of the winning essay written by Dave Eiliott, '51, in competition for the McKinney Prize Contest conducted each year at Tech by the English department, and should be well worth the reader's time.

WHAT PRICE CIVILIZATION?

Men feel more insecure and uncertain of the future today than at any previous time in the history of civilization. The increasing complexity of civilization has made men more dependent for their economic well-being on conditions outside their knowledge and control. Recent years have added to this feeling of economic insecurity the knowledge of civilization's danger from atomic war which could virtually annihilate mankind



Yet the rapid material progress of civilization which produced this insecurity was motivated largely by the desire for security. It is this apparent failure of civilization which raises one of the fundamental questions of our time: Can further material progress still make men secure, or is insecurity after all an inevitable product of such progress—the price man must pay for civilization? The direction in which man directs his future progress will depend on how he answers this question.

But is the annihilation of civilization an actual possibility in any conceivable war that can be fought with present weapons or any foreseeable future weapons? Any war fought in the near future would certainly leave large areas of the globe, of no strategic importance, untouched, and the peoples of these areas would survive even through the populations of the war areas might be destroyed. The destruction of such a large part of the earth's population would indeed mean the end of our present civilization, but even if the survivors were too few to rebuild civilization, no essential element of civilization would be lost, for the survivors and their children would still have intelligence, ingenuity, curiosity, and the desire to control nature, and would rebuild what had been destroyed. Civilization is a consequence of man's creativeness and ambition and cannot be ended by any amount of destruction so long as life remains.

Since civilization is not actually in danger of annihilation, man, in his quest for security is not then forced to grasp desperately at social or political changes which promise security. Nevertheless, there is today a widespread movement toward forms of government which do place the attainment of security before all else. It is a general movement toward what has become known as "statism." Statism assumes that security is the fundamental goal of society, and in practice it is the attempt by a government to establish every control necessary to achieve security.

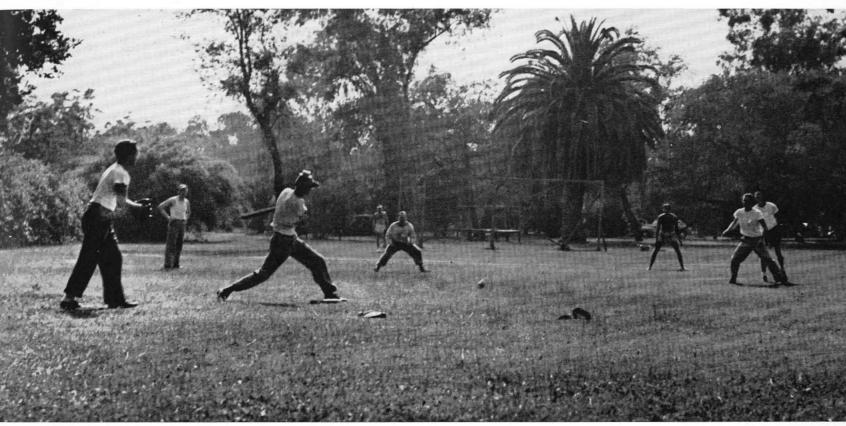
A government dedicated to the principles of statism believes at first that only economic controls are needed to achieve security. But these fail to produce security because the people can still work where they please, go on strike, invest in what they wish, buy what they choose. So the state is next forced to curtail these freedoms. But security_is still not attained, because the government itself can be voted out of office together with the security it is maintaining. Therefore, the government must take the inevitable step of eliminating freedom of speech, freedom of the press, and political freedom, and the quest for security leads to a totalitarian form of government. This is the stage of development reached by statism in the world today, but it is not nearly as far as statism must go to achieve lasting economic security. For so long as men can think independently they can oppose the government and place it in danger of being overthrown. To eliminate this final source of insecurity the state must eventually control the very minds of its people by shutting them off from contact with other peoples, and then creating an educational system which produces men who lack the ability to conceive of any idea contrary to the principles of statism.

If a state achieved such complete control over men's thoughts and actions it would probably give them economic security, and if the entire world were governed under the principles of statism men might be safe from the danger of war as well. But statism frees men from the insecurity of their complex civilization only on the condition that they relinquish the freedom to think originally, to create, to develop themselves, to do anything that might disturb the completely static society statism creates. Statism takes from men the right to think for themselves, and makes them think that they are better off than when they lived an insecure economic existence with freedom as their perhaps only luxury. But in losing freedom men lose more than a luxury-they lose civilization itself. For civilization is the means by which man has continued to evolve since he received intelligence-has continued to evolve by investigating, reasoning, inventing, trying and rejecting When statism succeeds in freezing man's life into a secure and predictable pattern this evolution stops, and civilization is destroyed as completely as if it had been annihilated by an atomic war.

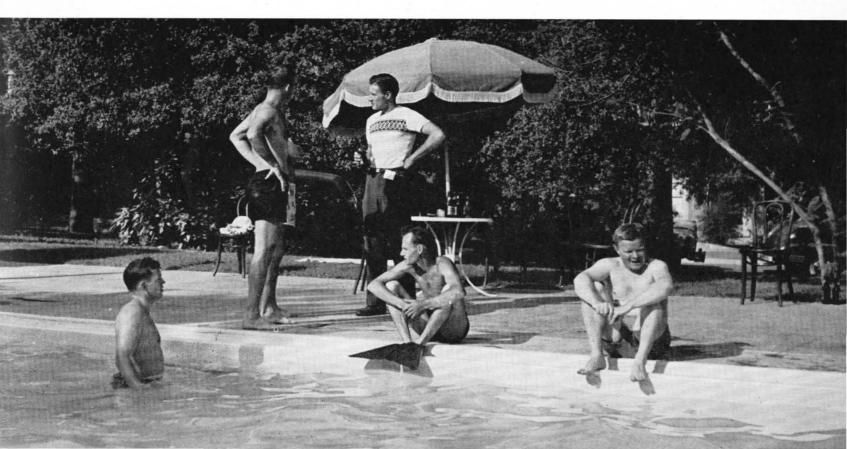
Yet statism destroys civilization, because security would mean the end of civilization. Security attained by any means would require a static society, for civilization is the increasing freedom of man's spirit from the limitations of his body as he extends his power over nature by developing better machines and a more complex and efficient social organization. The only way man can solve the economic and political problems which make him insecure today, without stopping this development, is to develop more effective ways of applying his knowledge in these complex fields where progress lags behind the more easily attained progress in technology. But the new knowledge and power gained in solving these problems will uncover new problems and new sources of insecurity. Thus security can be achieved only by abandoning this adventure of moving forward.

The attainment of security would therefore mean the end of civilization, not because some particular means of achieving security would require progress to stop, not even because men might become soft and decadent were the need for ingenuity and ambition removed, but because the attainment of security would mean that man had already abandoned civilization. Civilization can survive and continue to develop only as men find the courage to resist the pressure of fear which would drive them onto the path leading to security, safety, and certainty—the road back from all civilization has achieved. For insecurity, danger, and an uncertain future are the price of civilization.





FIELD DAY AT ANOAKIA SCHOOL



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A directory and Engineering and Science Journal, an outstanding magazine reporting research and activities at the Institute. Articles by DuBridge, Millikan, Pauling, Thomas Watson, and many others. Subscription (\$3.50) included in annual dues.

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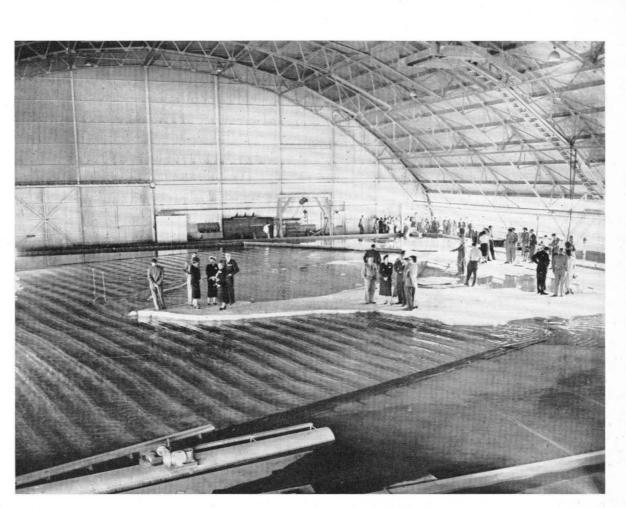
October, 1949

ENGINEERING AND SCIENCE

G

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ASSOCIATION



INSPECTION OF GUAM HARBOR MODEL

SQUARE DANCE





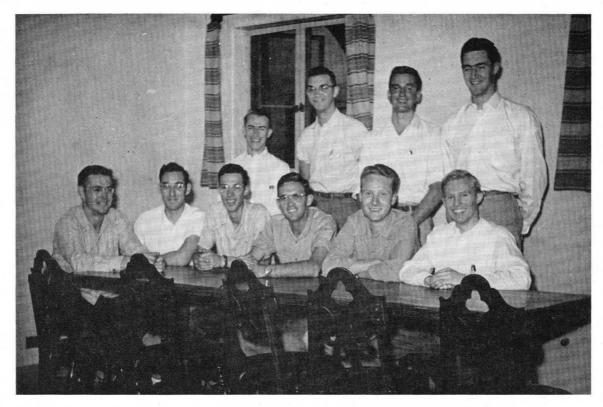






NORMAN BULMAN, GEORGE SMITH, GEORGE TANHAM, HARRY ELLIS, CAREL OTTE.

HOUSE WHEELS



DON ROYCE, MONTE MARKS, FERNANDO H. CORBATO, WALT PFEIFFER, DICK BENNETT, FRED DRURY, FRANK BUMB, BILL BRADLEY, RALF ERICKSON, BILL COX.



MRS. HALE. GLEN GREEN, SUE HUCK.



KYLE CATTERLIN, JACK POINDEXTER, FRANK BUMB, FRED DRURY



The ancient face of Father Blacker had beamed benignly out on the Southeast lounge for many years and as 1950 mellowed into the last lap, he looked pleased indeed, for he had watched his eage; namesakes grapple for new laurels and grapple with success. Like Caesar, Prexy Fred Drury was ambitious; unlike Caesar it paid off, in spurring House enthusiasm. Chewed cigars in mouth, evil glints in eye, Blacker statemen had stalked from the smoke-filled chambers to put five men on the ASCIT General Staff, Ralph Lovberg wielding the gavel, John Fee gripping the purse strings, Bill Freed chewing First Rep's fingernails, Jim Hendrickson racking the publicity brain, and Stan Groner plying the Second Rep's broom. Among others of high rank were Earl Hefner, presiding over the "California Tech" and Mike Hall, presiding over the PBAA.



Blacker sagacity draws the ladies



Associates' Tea

In the House Frank Bumb played the suave V.P. and host to a long list of House dinner guests and Jack Poindexter kept his worried eye on the balance sheets. With a shrewd eye on the Fleming athletic banners, Ray Greutert fielded a glittering series of winning teams; while Arcand and Humphrey rode roughshod over interhouse competition for social brilliance. In line with the Black's growing prowess a new office of propaganda was created in making Boyd Gage House Publicity Chairman, and forlorn alums were brightened with a biweekly snow job known as the News Letter. In the ecclesiastical life of the Southeast Corner spiritual guidance was amply provided by His Holiness Pope Hendrickson who reigned serene and with a mighty hand for the excommunication of Infidels.

In a burst of brilliance the fall term opened with the flowering of scarlet Frosh bow ties and drafting of Freshmen for service in the Bolivian Navy under the autocratic admirals, Pilkington and Groner. Training in marine warfare was offered the green gobs in watery combat with Ricketts, and they quickly gained a proficiency in the handling of hoses and stirrup pumps which was not forgotten after initiation. Ricketts was roundly trounced also early in the year in a memorable 74-11 basketball victory that brought the Discus Thrower to Blacker's mantle and bouquets to Butler, Sweet, and Kamei. Then Blacker rode roughshod over Fleming in Interhouse Baseball.



JARED ABELL DAN APPELMAN HARVEY AMSTER MYRON ARCANO FRED ARMITAGE

LEO BAGGERLY DÌCK BARTLETT CHARLES BATES SWAROOP BHANJDEO BILL BLODGETT

JOE BOOKEE JOHN BOPPART ANDY BOUSH RAY BOWERMAN JULIAN BRODY

FRANK BUMB SHERMAN BUTLER THORNE BUTLER BILL CONNER KYLE CATTERLIN

DAVE CLARK DUANE COOPER ART CUSE CHARLES DAVIES ED DAVIS

BOB DEGRASSE FRED DRURY TED EINWOHNER JOHN FEE JOHN FLYNN

BILL FREED BOYD GAGE ERNST GEHRELS KEPNER GOODWIN HUBERT GOSS

RAY GREUTERT STAN GRONER MIKE HALL TED HARRISON EARL HEFNER

JIM HENDRICKSON CARL HILDABRAND CHUZ HOWARD JOHN HOWELL PETE HOWELL

Socially the Southeast opened its always successful program at a pleasant peak with a mountain party which combined all the enjoyable features of women, swimming, dancing and singing by firelight, a moonlight hike and other sports, and an excellent excuse for not snaking. Down from the hills the Smoothies set about industriously to prove that Blacker has more face-liftings than an aging debutante by converting the House into a realistic mining camp complete with mule, to cop decoration honors for the Interhouse the second successive year. Even the depressing need for mopping-up operations the next day didn't blunt the huge success of the dance. About this time also the House cheered Frosh hero, Dewey Marshall, for taking all three firsts in the Interhouse Cross Country Contest, and sputter experts Goss and Groner for returning the Lincoln Debate Trophy to its habitual roost on the home mantle.

In the search for originality the social committee launched a highly popular barn dance initiating the House into the strenuous mysteries of the American square dance, amidst a bellow of enthusiastic applause. Along with the hallowed barn dance habit of decreased inhibition and increased imbibition, the Seniors and Sophs lost to the Juniors and Frosh a crew race whose outcome was bitterly contested for weeks. And there was another athletic event the fall term. Blacker rode roughshod over Fleming in Interhouse Basketball. -

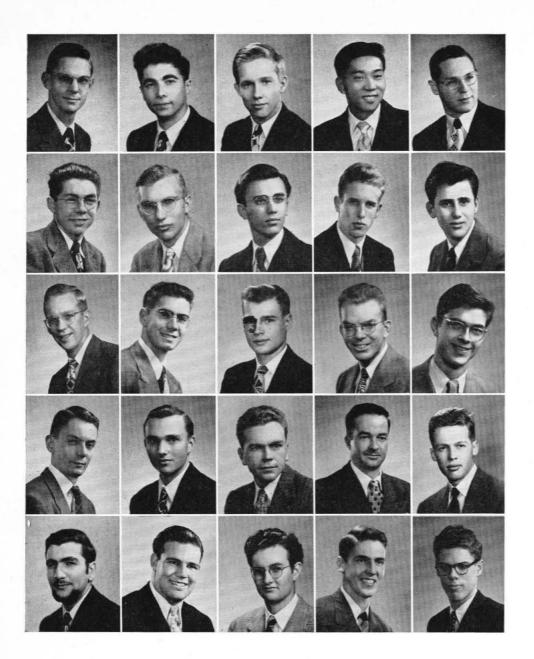
Dinosaur's egg





BLACKER

Last lap



FLOYD HUMPHREY EARL JACOBS ALAN JOHNSTON HIROSHI KAMEI WILBUR KNIGHT

ROBERT KOSTER DALE KRAUSE HAROLD LAZAR PAUL LANGDON MICHAEL LOURIE

RALPH LOVBERG KEN LUNAN SCOTT LYNN MATT MANSFIELD DUANE MARSHALL

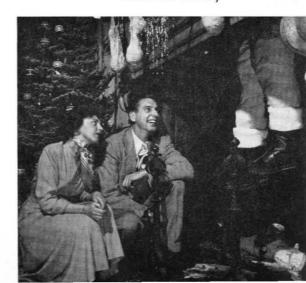
PETE MASON JOHN McCOOL JOHN McCOURT DICK McKINNON SAM MIDDLEBROOK

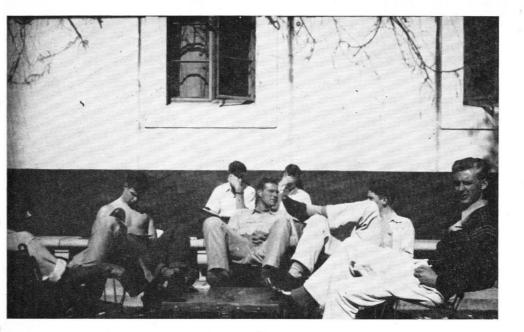
AL MISHAAN ART MILLER BERNON MITCHELL MORGAN OGILVIE PHIL ORVILLE

BLACKER

Back from Christmas wassail, the troops began the winter season trekking to the cold, white country for a cold weekend of skiing and show-hurling combined with much happy thawing out before roaring fireplaces. The midyear sped by in a succession of skating party, barn dance, theater party, square dance, post-game open houses, and innumerable spontaneous bedlams that pointed out the joie de vivre of a notorious section of the House called the Tunnel. Across California Street Art Miller set a new discus record in the Interhouse Track Meet. Then Blacker rode roughshod over Fleming in Interhouse Softball.

Men of Blacker have come to take for granted the social committee's perennial genius for spctacular functions, but even so were impressed by the Pirate Party Dance preceded by a Chinese dinner. The scene, a waterfront pirate tavern; the actors, Blacker's inimitable, highly impromptu intermission dramatists cavorting with bandanas, gold earrings, and very slapstick humor; the reaction, bravo! As the second term dragged wearily to its exam-death, doors slammed again on the ill-ventilated anterooms and the House rose to its high political reputation with eight candidates for office in the spring elections. Then Blacker rode roughshod over Fleming in Interhouse Tenn's. Christmas fantasy





Sun worshippers

The spring term was to be a succession of new dances and parties, the court was certain to be the scene of many enthusiastic aquatic contests as the barn and beach parties were certain to see the exhibition of Blacker teams with other liquids. Fighting a close race for second place in the Interhouse trophy race, the traditionally non-athletic Blacker musclemen expected many more dinners with two sundaes all around and certainly haven't removed their rough-riding shoes. Old Father Blacker had reason to smile on his proteges this year.

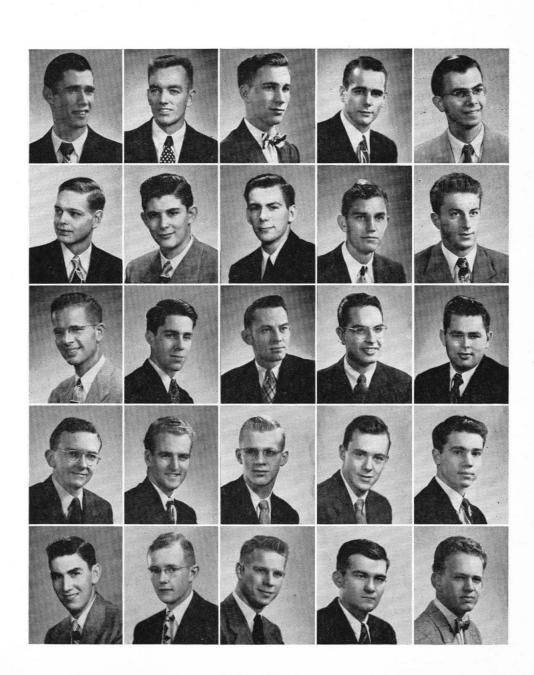


DON ROSS IRWIN RUBENSTEIN CARL SAUER GEORGE SAWYER DON SCHMID

LEN SCHULTZ BOB SMITH GENE SPENCER GUS SOUX BILL STAATS

HUGH STODDART SANFORD SWEET DON TAUTZ BOB TEAM DAVE TWINING

PERRY VARTANIAN DICK WATERS BURKE WELSH ART WENNSTROM BILL WRIGHT





DON ROYCE, ROGER PICCIOTTO, FERNANDO H. CORBATO, DAN LE MAY

DABNEY



Now I'll take the bass

In Dabney, nearly everyone . . .

The past year was indeed one of disillusionment for the men of Dabney, what with the increase of Los Angeles smog and the advent of the Hydrogen Bomb. While the wearing of the downcast countenance was forbidden in a special Bull from Pope Markoff, all was to no avail as we sunk even further into despair. Significant beams of enlightenment in this dark period came from the House Executive Committee under the stern and able leadership of President Don Royce and aided by second-in-command, Fernando H. Corbato; Scribe, Dan LeMay; Chancellor of the Exchequer, Roger Picciotto; Ath. Mgr., Mal V. C. Hickey; Librarian, Jim LaFleur; and Historian, Jon Goerke. Representing us in ASCIT posts were Dave MacKenzie as Vice-President, Bert Snider as Rally Commissioner, Jon Goerke as Big T Editor, Jim Blom as Big T Business Manager, Jim LaTourette as Frosh President, Fred Wood and Dan Markoff as Vice-President and Treasurer respectively of the Beavers.

Singular brief periods of gaiety came on the fine social weekends arranged by Corby. There were exchanges with Oxy, Pomona, and Scripps, the last mentioned party seeing the loss again of the Dabney-Browning milk drinking trophy to our female adversaries. Small consolation came from their having a twofor-one handicap. Date affairs included the three heavily-oversubscribed barn dances, skating parties, theatre parties, blessed beach parties, a May Day workers' dance, and the Interhouse and three formal dances which were well decorated by hard working crews of Dabney men. High point of the social year, according to all participating, was Hobart's Maul: a Bohemian affair conceived on the pattern of last year's Bozart's Brawl and held at the bistro of Don Hobart Shepard. Suggested names for next year's affair are headed by Mozart's Fall.

But Dabney did not fall down in interhouse athletics during the past year: aside from their mediocre showing in tennis and track, the men came through to tie for firsts in softball, baseball, and basketball, and promise to remain strong contenders for the interhouse athletic trophy. The house owes much to Mal Hickey for his organizing, to Dick Brewer for basketball successes, and to Goldenarm Martin Walt for his control pitching. For the first time, the classes of '51, '52, and '53 were shown just how the Discobolus looked on the mantle, and in fact Dabney is at this writing in the lead in the race for this interhouse challenge trophy.















































JIM ALLISON DOUG ALVERSON BILL AVERRE MIKE BADER DAVE BANKS

BILL BARMORE ALLAN BEEK WELDON BERGREEN DEAN BLANCHARD JIM BLOM

DICK BREWER RAY BROW DAN BROWN CLARK BRUNDIN BOB BURRELL

JOE CAIN SIG CHAMER TOM CONNOLLY TOM COONS FERNAND FERNANDO H. CORBATO

MANUEL CRESPO BILL CULBERTSON BOB DAVIS WALT DAVISON BAIN DAYMAN

BOB DEVERILL DICK DICKINSON CECE DRINKWARD DICK FULLER AL GALE

BOB GILLINGHAM JON GOERKE FRED GOODFELLOW RICHARD HAM TOM HAMILTON

BRUCE HEDRICK MAL HICKEY BILL IRWIN ERIC JOHANSSON HARVEY JOHNSON

PETE KNOEPFLER BOB KURLAND BOB LAFF JIM LaFLEUR JIM LaTOURETTE















Invasion

Bridge

DABNEY

The year was marked by more than sporting strife, however, with the improvement of water fighting devices in the form of Joe Cain's high pressure fire hose with optional hot water stream. The pre-Fleming-game rally came to be synonymous with the water fight, and waste baskets saw yeoman service in this application.

saw yeoman service in this application. The cry of "fourth for bridge" was perverted through the influence of ex-navy men Ottestad and Markoff to that of "hearts," while Don Shepard solicited the interest of other gamesters with his homemanufactured sets of Japanese "Go."

Throughout all of this the "First Piano Fourtette," consisting of Tom Connolly, Fred Wood, Bruce Hedrick, and Danny Markoff, toiled fearlessly, rhythmically, and sometimes harmonically on with its eightyeight keys and forty fingers: they held it was easy with only two and one-fifth keys per finger. Also seen at the console were Ray "Cavallero" Brow, Jim "Fats" Mc-Caldin, and almost anyone having the necessary ten fingers.

Common complaints concerned many things, among which were: the lack of noise and spirit; the super-abundance of noise and spirit; the exorbitant rates charged by sunlamp owners Bergreen, Cain, and Hedrick; the laxity of the UCC; the too-frequent collections of cash by UCC's; the degrading influence of the smokers upon other members of the house; the clanking of Blanchard's weights; the throwing of napkins at dinner; Drinkward's noisy three A.M. returns; and the mass migration of Fleming into our lounge on Tuesday nights to see Milton Berle on TV. At Scripps . . .

some dance



DAVE LEE ED LEE GEORGE LEE DAN LeMAY

MOOSE LEVY FRANK LUDWIG DAVE MacDONALD DAVE MacKENZIE JOE MANGIN

DAN MARKOFF CRAIG MARKS JACK MARTIN JIM McCALDIN DICK McINTYRE

JIM MCQUISTON EARL MENDENHALL GEORGE MERKEL LEON MICHAELSON J. C. NOLL

CHUCK PAULSON TOM PAULSON ROGER PICCIOTTO HANK POLLET DEAN RAINS

BRUCE ROBINSON DON ROYCE WINSTON ROYCE TOM RUSSELL

DABNEY

Significant among the morbid philosophers of our age were those of the Dabney waiters' clan, but even within this solid group there were factions: Whitney and those who aimed at raising our cultural level opposing Marks and those who discoursed mightily on the vicissitudes of cars and sailboats.

Dinnertime Alexandrian harangues of yesteryear were replaced by the short but faux-pas filled speeches of Corby, much to the amusement of the troops and dinner guests. But even at this late date one can see hope of deliverance from despair, for there is a strong movement afoot to profitably dispose of the television set and put the proceeds toward a year-end Bacchanalian spree.



Dabney's gift to campus culture

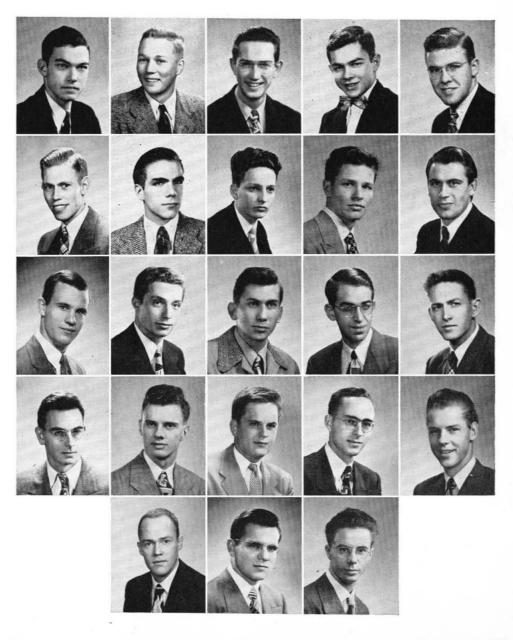
DON SHEPARD RON SHREVE BOB SMITH BERT SNYDER BOB STANAWAY

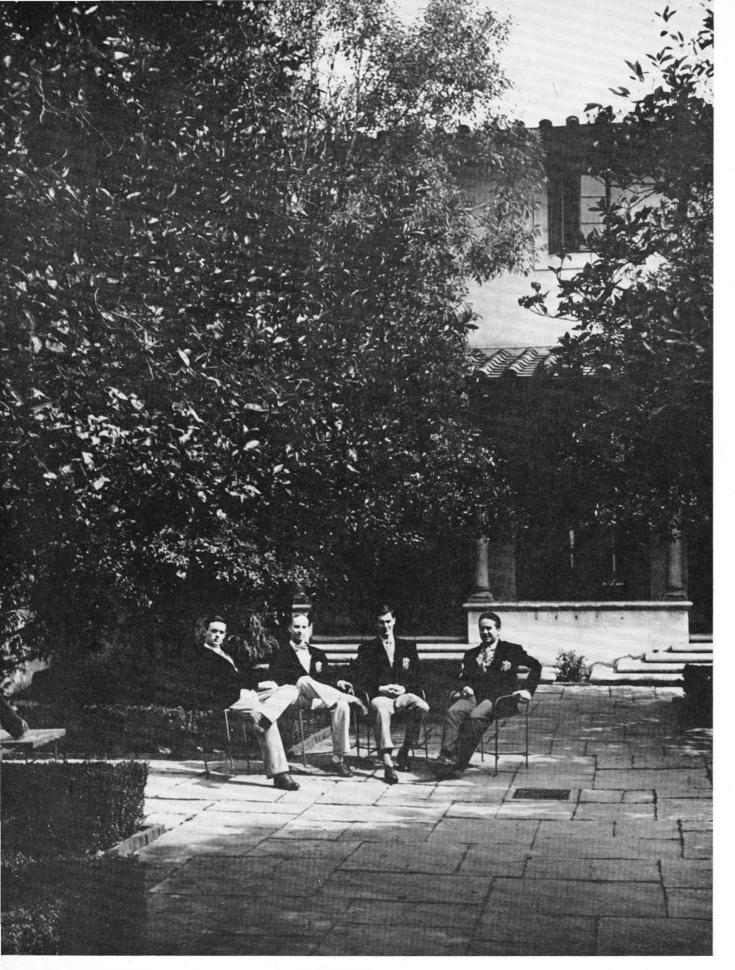
DON STEWART TOM STOCKEBRAND NICK SZABO TERRY THOMAS BJORN THORSTENSEN

HAL TYSON LEON VICKMAN DON VOGEL DUTCH VREUGDE MARTIN WALT

JESSE WEIL DICK WELSH ED WELCH BILL WHITNEY KEITH WINSOR

FRED WOOD ED WORRELL GORDON ZENTNER





DICK BENNETT, ALAN HABER, BILL COX, BRUCE STOWE





Finals week in Fleming

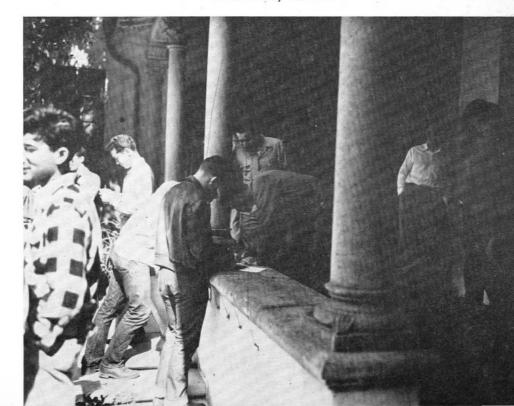
Another year of life in the Northwest corner showed that the spirit of the Big Red Team remained undiminished in all phases of student activities. Track meets, water fights, and dances continued to draw crowds of supporters at every opportunity. The endless bridge game in the lounge, and the gathering of smog worshippers in the patio, never seemed to lack participants; and the nightly exodus to Fischer's had its adherents as well. Despite this serene picture, Fleming's men found a year of expansion into wider fields of interests than ever before.

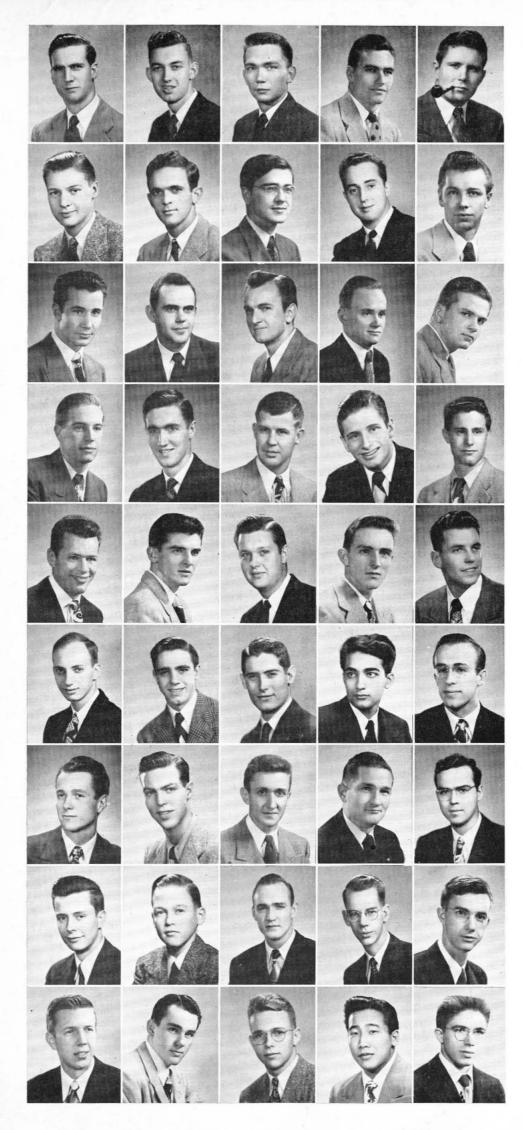
Operating under the benign eye of Fleming's Resident Associate, "Mother" Norm Bulman, Fleming House Officers formed the nucleus of the Fleming team. The able leadership and handling of House affairs by President Bill Cox was recognized by his election to the post of President of the Interhouse Committee. Dick Bennett's activities as VP brought an everflowing number of prominent guests to and from dinners at the House, while Secretary Al Haber's attempts to rhyme the House minutes often led to mixed feelings of pain and awe among House members. Haber's efforts did not go unrewarded, however, and he rightfully possesses the title of "The Insoluble." Treasurer Bruce Stowe successfully phenagled with the House's accounts, while UCC's Vern Edwards, Al Eschner, John Lewis, Tony Malanoski, Jack Moffat, and Jay Montgomery kept the alleys under a reasonable amount of control whenever they were not in the midst of the ruckus themselves. Constable Jim Luscombe brought heavy handed order to the dining room, and Dallas Peck, in the new post of House Librarian, kept track of the Lounge literature and House files as well as organizing a textbook depot.

Never a House to be left unrepresented in ASCIT affairs, devious political maneuvering saw the office of Athletic Manager in the person of Noel Reed, transferred from Throop to Fleming during the year. Dick Libbey, Vern Edwards and John Lewis all held high "Y" offices; Dick Jones maintained Fleming leadership in the Ski Club by his election to its presidency, Bill Sampson managed the Band, Bruce Stowe and Tony Malanoski held editorships on the Big T and the Tech. And a host of other organizations, the Debate team, glee club, rally committee, elections committee. Tau Bete, the professional societies, all found their ranks swelled by House members.

Stirred by the stimulus of the ubiquitous underlying urge, Fleming presented a scintillating program of social events that brought out enthusiastic response from all. Co-Social Chairmen Bud Klarfeld and Ed Matzner supplied an ingenuity and drive in organization of social affairs that was second only to their ability to pass the buck. Starting off the year with a round of exchange dances to provide a foundation of phone numbers for the season activities, House members soon reveled in a series of post-game dances, theater parties, and more pretentious affairs.

Election day kibitzers





GEORGE ABELL CARL ANDERSON DON ARNOLD DON BAKER DON BARRIE

JACK BEHNKE DICK BENNETT JOHN BJERKLIE DICK BUCK JOHN CAGLE -

ODELL CARSON MEL CASSIDY HAMBONES CLARK PAUL CLARK HENRY CLUTZ

GEORGE COOKE BILL COX SONNY CRUMP DEAN DAILY BILL DRAKE

VERN EDWARDS WALT EDWARDS FRED EISEN TOM EMERY AL ESCHNER

ALAN HABER JOHN FORGY JOHN GEE WAHEED GHAURI NORM GRAY

DICK FAIRALL AL HAIRE KEN HAMMOND BILL HIGGINS JACK INMAN

DICK IRELAND STEVE JACKMAN TOM JANSSENS DAVE JOHNSTON JOHN JOHNSTON

DICK JONES GENE JORDAN TAYLOR JOYNER MERLE KAM ROCKY KEIR



Saturday evening seminar

Solubility test

The huge success of the first term was the Interhouse Dance, and there was little doubt in unprejudiced minds that the Fleming conception of "A Night in Cairo" took the honors for this year's cleverest decoration scheme. Centering around a dimly lit replica of a den of iniquity deep in the heart of the Egyptian metropolis, the decoration included a temple resplendent with sarcophagus, a live mummy, and a cabaret with befezzed bartender and waiters. Scantlin's kissmeter lured even faculty members and RA's into its clutches, as it produced scores to the accompaniment of lights and buzzers.

But even small parties found adherents among Flemingites as the social program provided a function of one kind or another every weekend, supplying at least a dance after athletic events, and larger affairs on other days. The barn dances brought out a host of enthusiasts; the snow party took a group of couples up to the mountains for the weekend; and spring brought with it the beach parties, replete with sun, salt air, and brew. The winter term's House formal saw Sonny Crump's band playing to a large group of Flemingites and their dates, while spring's breezes and a full moon watched the formal dinner dance that was held in the Fleming-Ricketts patio.

FLEMING

11-1 ACE + X155 3. REMAIN ON ELS wait a spla

CAIRO HISSOMETER

Why, "Mother"!













HENRY KESWICK BUD KLARFELD JIM KLIEGEL BOB KUBIK

BILL LANSDOWN BUD LARSH BUDD LeTOURNEAU JOHN LEWIS DICK LIBBEY

JIM LUSCOMBE BOB LYNAM BOB MADDEN TONY MALANOSKI JOHN MARION

ED MATZNER JACK MOFFAT JAY MONTGOMERY DON MOORE RANDY MOORE

JOHN MORRISON GEORGE NORWOOD STEVE PARDEE HARRY PATAPOFF PETER PAULING

DALLAS PECK NORM PECK DICK PIERCE BOB PERPALL AL PITTON

BILL PROUD RON QUANDT REX RAGON CARL RAMBOW DAVE RATHJE

NOEL REED JOHN ROGERS LEE ROSS BILL SAMPSON JACK SCANTLIN

ED SCHLINGER DWIGHT SCHROEDER BARRY SCHUYLER TOM SCRUGGS MIKE SELLEN TOM SLODOWSKI DEANE SMITH PALMER SMITH TED SMITH

BOB SMOOT LARRY STARR DAVE STEVENS BRUCE STOWE GEORGE STRANAHAN

JOE SUNDERLIN DON SUTTON BOB WAID JOHN WALTER MILO WEBBER

RON WILLENS MING WONG BOB WOOD DAVE WOOD BRUCE WALLACE



Comin' through

FLEMING

Comin' through!

To the surprise of no one, Fleming dusted off the "Old Lady" and prepared to enjoy her company for the seventeenth consecutive year. The 1949-1950 season was a very successful one for the Big Red aggregation. With few outstanding stars but with active and spirited cooperation from the entire house the Fleming teams wrapped up the Interhouse Trophy with many points to spare. As usual, Fleming also captured the Varsity Rating Trophy for intercollegiate athletic participation.

As house athletic managers, Dick Libbey and Jack Scantlin were kept reasonably busy. While Libbey kept an eye on the intercollegiate activities, Scantlin tried to keep his men eligible for Interhouse sports in a constant battle of wits with the High Commissar of Interhouse Athletics, Jim Nerrie.

Special mention should be made here to several Fleming seniors who were outstanding Caltech athletes. Bill Cox, having received four varsity letters in basketball, as did Jay Montgomery, was elected captain of the Varsity basketball squad. Odell Carson, football and track letterman, was elected captain of the football team. One of the most outstanding athletes the school has ever had was Dwight Schroeder. In addition to receiving four Varsity track letters and a Varsity football letter, he was winner of the 1949 decathlon and received the coveted Hanes trophy for this feat. Don Baker, who was a four-year varsity football letterman, was awarded the prized Wheaton Trophy.



BILL BRADLEY, DAVE DURHAM, JACK DYER, NORM SCHROEDER, WIN SOULE





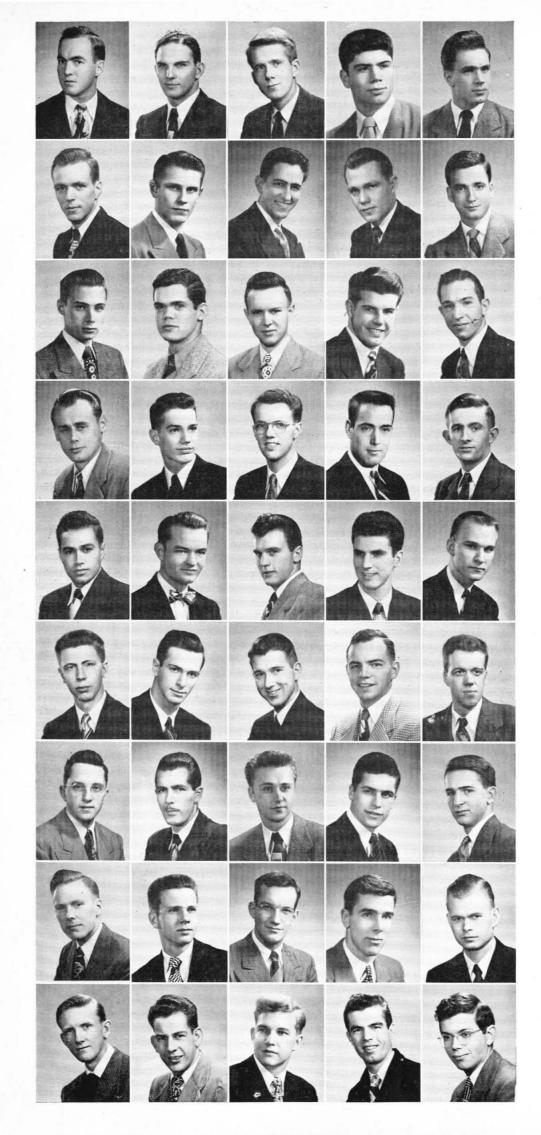
Valentines in Dabney Lounge

The ever-soaring fortunes of Ricketts House were guided during the year by an able crew of House Officers. Bill Bradley served as the capable, hard-working President of the House and provided an appreciated spark to all House activities. Norm Schroeder, as Vice President, shouldered the responsibility for the House Social functions and a highly successful social season was the result. Dave Durham, laboring under the traditional House Secretary's handicap of unfamiliarity with the English language, served as official House scribe, while Treasurer Jack Dyer, as the world's most accomplished juggler, kept the House books out of the red. Win Soule, as Athletic Manager, directed a full stable of House athletes in Interhouse competition.

Ricketts House continued in its tradition as the House of BON VIVANT. Many an idle hour was devoted during the year to Brake Drum riots, harmless water fights, and other informal gatherings designed to enable the House members to glean the most from their exposure to higher education. House members were frequently to be found sunning themselves on the Athenaeum lawn, listening to the results of the last race at Santa Anita, or sweating out the weekend meal overflow into the Ricketts House Diningroom. A call sounded in the night for persons to journey to VAN DE KAMPS or PERRY'S would always receive a hearty response, but such activities were always tempered with an eye toward maintaining a sound scholastic reputation.

Steese is at it again





DON ASQUITH RODGER BAIER FRED BAILY PHIL BATES CHUCK BENJAMIN

TOM BENSON DICK BIRD STAN BOICOURT TED BOWEN BILL BRADLEY

DICK BROWN DALE BURGER RON CALDWELL MIKE CALLAGHAN ANDY CHECK

HOWARD CLARK FRANK CONNOR RON CONNOR BOB CRICHTON LU CUFF

ALEX DESSLER DAVE DURHAM JACK DYER LARRY DYER ERNIE DZENDOLET

WALT EAGER STAN EILENBERG DAVE ELLIOT BARNEY ENGHOLM JIM ENSLOW

ED EYLAR CARL FOX JOE FISHER NORM FINK BILL GARDNER

OLLY GARDNER BOB GRAFF JOHN GREENE BIL HAEFLIGER PHIL HALVERSON

KIM HAMBERGER DAVE HANNA CARL HIRSCH REILLY HOLLY JOHN HOLMES

RICKETTS

The Rowdies managed to stuff the '49-'50 school year with a maximum of activity. Social wheel Norm Schroeder dug in as soon as the fall term began, and with the help of right hand man Phil Halverson and an able social committee, created many fine affairs.

The slums of Gay Paree provided the theme for the best dance of all, the annual Apache Dance. Soft music, conservation of electricity, bestubbled faces and short skirts contributed much to an evening that will not soon be forgotten.

The horsey set was delighted to find that the Ricketts lounge had been turned into a racetrack for the Interhouse dance. Murals of "bodacious" nags, an oval track, a "parimutuel" refreshment window, and the glint of an electric scoreboard combined to complete the illusion.

Two formal dances provided opportunity for the Rowdies to put on the ritz. The Valentine Formal, held in Dabney lounge, was second in popularity only to the Spring Moonlight dance which fell on that balmy evening in May, with the stars twinkling through the olive branches and dreamy music wafting across the outdoor floor.

By no means subordinate to other affairs, the Barn Dances did their part in building the store of happy memories. Levis, plaid shirts, and gingham blended with smooth music and jive at Mountain Oaks, while the intermission activities of the mighty Ricketts crew extracted respect from all.

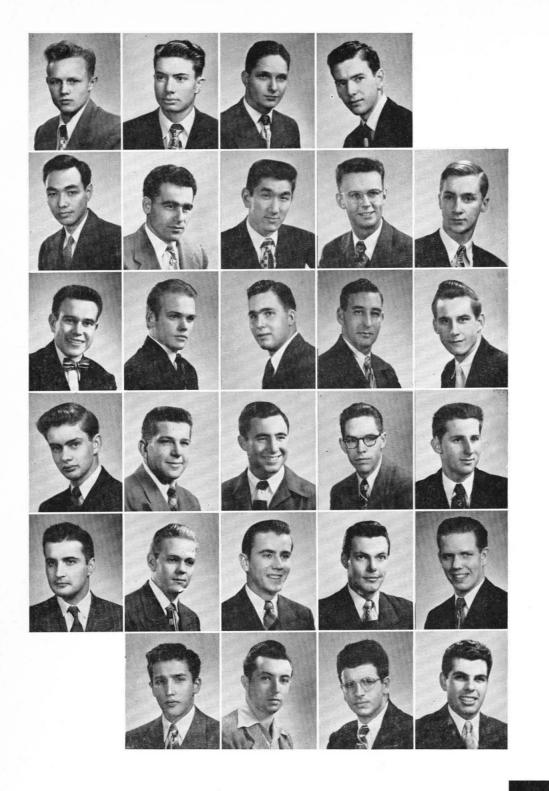
The already-full program was augmented with several very successful exchanges, theatre parties, and a round of after-the-game dances. The Rowdies will long remember Norm Schroeder as a fine and energetic social chairman, and the '49-'50 social season as the best ever.

As always, Ricketts House gave some of its best talent to the cause of the Student Body. notable examples being: Olly Gardner, ASCIT Secretary; Stan Boicourt. Senior Class President; John Noble, Sophomore Class President; Ulrich Merten, Yell Leader, Debate Group President, and Glee Club President; Monte Markes, Interhouse Committee Secretary; Bob Crichton, Caltech Y President; Carl Fox, Drama Club President; Rich Smith, Co-editor of the Little T; Bill Bradley, Business Manager of the CALIFORNIA TECH.



Apache cabaret

Midnight massacre



BRAD HOUSER MARVIN HYMAN JIM IBERS DOUG INGLIS

WALTER JOHN RUBE KACHADOORIAN BABE KARASAWA FORREST KEY DAVE KNAPP

DICK KNIPE DAVE KOONS CARL LARSON MONTE MARKS AL MARSHALL

BILL McCORMICK JAY McKINNEY JACK McEWING DON MERRIFIELD ULRICH MERTEN

REHA MESARA JOHN MOSS RICH NEWMAN JOHN NOBLE DAVE OAKLEY

ANGEL OTTATI GIL PEPPIN TED POLK VIC PORISKY

Brake drum fracas

In athletics the Rowdies showed up well, bringing home the bacon often enough to make the yell, "no coats and ties," commonplace The Rowdies featured outstanding performances in bowling and track, and continued to hang onto the skiing trophy. The Discobolus appeared with great regularity over the mail boxes, and of this date seem: inclined to take residence there at the end of the year. That stronghold of Ricketts' athletic strength, the Crew, upheld the reputation gained by its predecessors; with one more contest to go the Crew remains undefeated and unchallenged.

The football season saw an unusual number of Ricketts men in regular action on the varsity, including Babe Karasawa sparking the team with his passing and ball-carrying. Al Marshall calling signals from the quarterback spot, and Ted Bowen and Dave Hanna doing mighty jobs on the line, to name but a few. The newly formed soccer team boasted four Rowdies in its starting lineup, while the Frosh roster proved that a large group of our new men were interested in the earthier aspects of education.



RICKETTS

The Goldsworthy Memorial Bowling Trophy rests securely in the Ricketts lounge for another year, thanks in large part to the efforts of Win Soule, Carl Fox, Norm Schroeder, Andy Check and the Stones, Ralph and Sid. Bill Bradley, Pete Price, and Olly Gardiner continued to defend the skiing trophy with the same zeal that has made it a permanent fixture in the lounge in years past.

The Crew, under the competent leadership of Ol' Cap Jim Wilcox, continued to trample on all competition. Ted Polk holds the symbolic sewer pipe with a time of 3.8 seconds, backed by a team which a man over 6.5 seconds would have a tough time making.

While the bouquets are being passed out, a large one must go to Win Soule, Ricketts Athletic Manager. Win succeeded in getting more men than ever before out for the House teams, and it was his drive that often led the Rowdies to victory.



HOWARD PRESTON PETE PRICE DICK RODBURY ROD RODRIGUEZ TED ROMINE

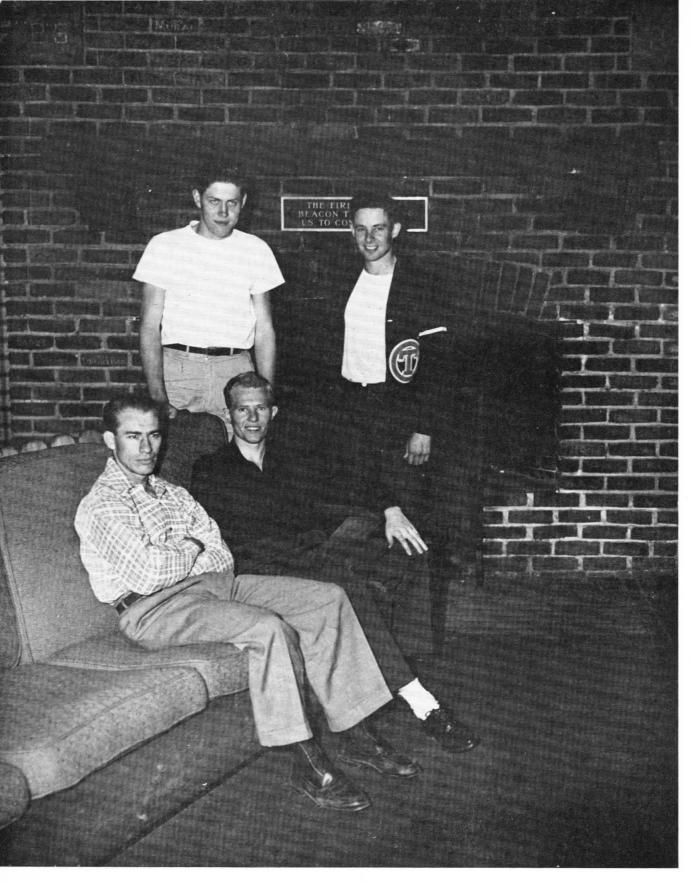
NORM SCHROEDER GENE SHAKESPEARE RICHIE SMYTH WIN SOULE BOB SPENCER

RAY STANNARD CHARLES STEESE RALPH STONE SID STONE DICK TAYLOR

DON TIERNEY FRITZ THURSTONE DICK TRACY VICTOR VAN LINT DAVE VIGLIERCIO

DUD WAGNER CHUCK WALKER JACK WALKER JACK WILLIS BILL WILLMORE

BOB WORTHINGTON DICK WRIGHT JIM WYMAN



WALT PFEIFFER, DUANE NEVERMAN, RALF ERICKSON, BOB COBB.

THROOP CLUB

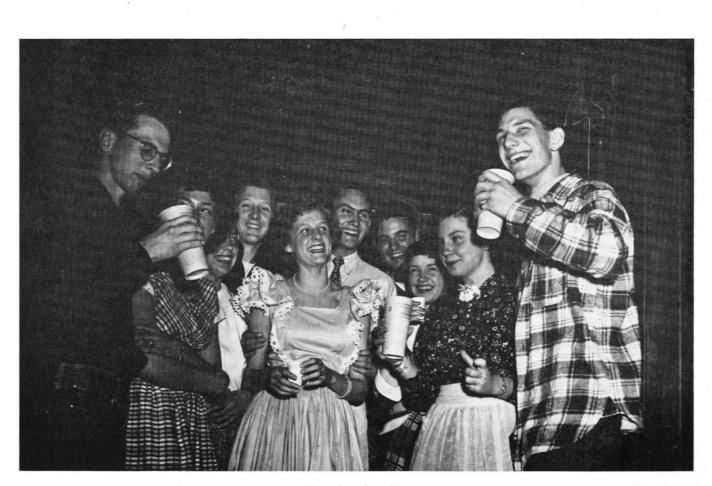
Today Throop Club is taken for granted by many Tech students, but for a considerable group of men Throop Club provides a very necessary and vital part of College life.

Throop Club had its beginnings in 1932, when the fraternities were abolished. Those whose depression pocketbooks would not permit them to live in the student house found themselves left out of campus life. Some of these students, living off campus, got together and formed the "Off Campus Club." In the first year of their existence they captured the Interhouse Athletic Trophy. In 1933 they were again supreme in Interhouse sports, winning in football, tennis, track, baseball, and crosscountry. Finally, in 1935, Throop Club as such came into formal existence.

Up until the war, Throop Club continued to be a dominant factor in campus activities. When the war came, and the Navy took over Cal Tech, Throop Club closed for the duration.



Formal interlude



Barn bacchanalia



















BOB ADLER BOB ALTERMATT JOHN BAUGHER RICHARD BEMIS

BARRIE BIELER TONY BIGELOW ROBERT BLAIR GALT BOOTH ROBERT BOYER

BOB COBB LOWELL COCKEL ROBERT CONINE BOB CONNELLY GEORGE COOK

GEORGE CORPORALES ROBERT COVEY LYNN CROSSWHITE ED DAVIS BREN DEHN

RUDOLPH DeJONG JOHN DELCAMP WILLIAM DIBBLE WILLIAM EDMONSON DONALD EMERSON

RALF ERICKSON KENNETH FRENCH BUZ GAINES ABRAM GEORGE ROBERT GOTTIER

VANCE GRANGER JOHN HALSTROM PAUL HELFREY JAMES HELMUTH LYLE HOAG

LESLIE HOUSDEN RONALD HRUBY RICHARD HYDE DONALD JENNINGS ROBERT JENNINGS

BARCLAY KAMB WILLIAM KELLEY GIL KITCHING RICHARD KNAPP DONALD LAMAR Since the return of Tech to a somewhat normal pattern of life, Throop Club has attempted to regain a position of eminence. The problems facing the rise of Throop Club include a large proportion of married veterans, who are less interested in campus activities, and large numbers of "social memberships" in the student houses, usually held by the outstanding off-campus men.

The past year has seen Throop Club make further progress toward the goal of campus prominence. Social activities, pledge programs, participation in interhouse sports, and political activities by the offcampus group have all been on the increase.

Teams have been active in all interhouse sports, and the Throop team won a tie for first in baseball. Throop also held second place in contention for the Varsity Trophy. The Throop Bowling Team, led by Woody Bratnober, lost the Interhouse Bowling competition by the narrow margin of one game.

Officers for the past year have been: Pres., Ralf Erickson; vice-pres., Walt Pfeiffer; treasurer, Duane Neverman; secretary, Robert Cobb. The social activities have been handled by Lowell Cockel, sports by Lou Stallkamp, and the responsibility of lounge chairman was borne by Bob Connelly. Real firewater



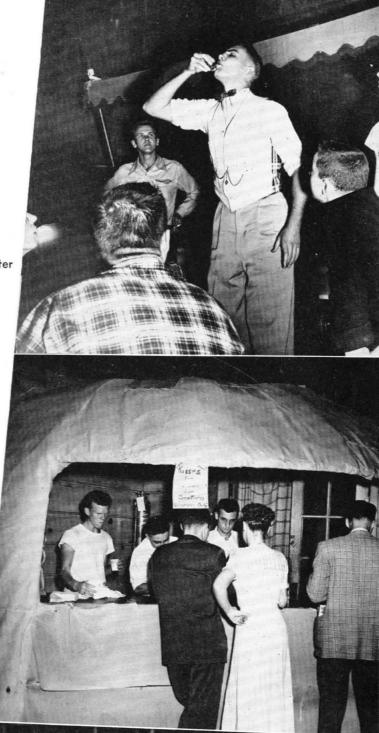
THROOP CLUB

Steady now!

Throop-Rowdy ratrace









FRANK LANG TOM LAYTON ROGER MARTIN JERRY MATTHEWS

CHARLES MILLER GEORGE MOORE JOHN MOSICH ROBERT MUNRO DUANE NEVERMAN

ROBERT OLIVER ROBERT PARKER GERALD PATCHEN WILLIAM PETERSON WALTER PFEIFFER

RENO PIEROTTI WALTER PILANT JOHN PORTER STANLEY RAWN

The freshmen were thoroughly indoctrinated by co-pledge chairmen Ray Destabelle and Al Van Hise, whose program included spider races, cleaning the fireplace, and year-long clean-up duties. Desoite complaints, and occasional inundations in the Physics pond, the Frosh were well initiated by the time of the initiation dinner.

This initiation dinner was only one of the many social functions sponsored by the club. Besides this dinner, featuring Dr. McCreery as speaker, the social program included exchanges, bowling parties, a stag, open houses, and record dances. Participation in social functions has increased over last year, but is still much too low. The best attended function was the Interhouse Dance. Throop Club's theme was "Out of This World." The Discobolus restd firmly on Throop's mantle during this function, as it has for a considerable portion of the last year.

The increasing place of Throop Club in campus politics is evidenced by the presence of three members on the list of candidates in the recent ASCIT elections, two of whom were elected. The idea of Throop Club is to provide

The idea of Throop Club is to provide the off-campus student opportunities for participation in campus life, and the comradeship attendant on that participation. The past year has seen progress, slow but sure, which must be continued, and increased, until Throop Club again offers the best to the student, and receives the best from the student.

THROOP CLUB

Up and over!





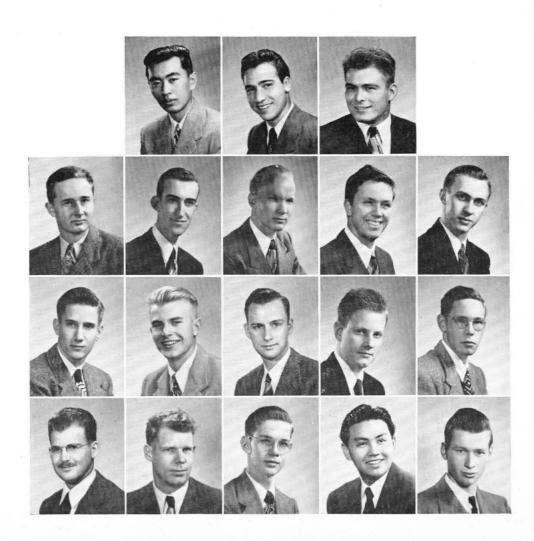
Lunchtime in the lounge

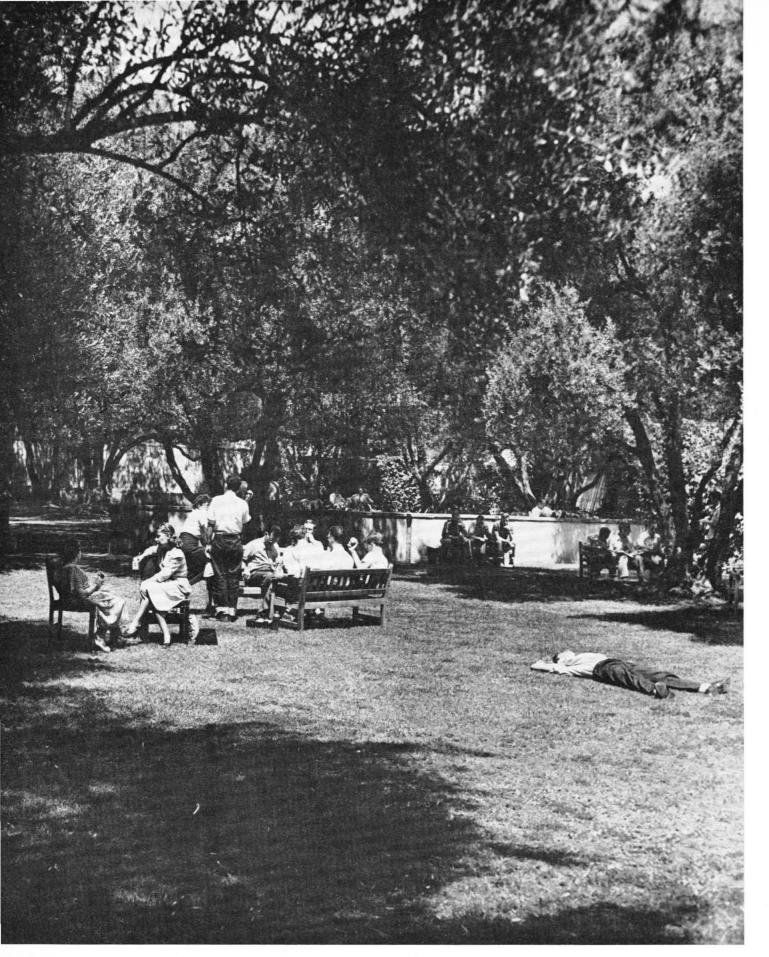
KAZUHIKO SATO CHARLES SAVANT JAMES SCHOFIELD

FRANCIS SCOTT HOWARD SHUGART VIRGIL SIMS JACK SIMMONS WILLIAM SMYTHE

ROBERT STANTON EDWIN STOFEL ALFRED THEILE WALTER THORSON PETER VERDIER

WILLIAM WEBBER DICK WEEKS JOHN WILSON EDGAR WONG JOHN WINSLOW





LUNCHTIME IN DABNEY GARDENS

OFF CAMPUS

PAUL AAGARD JAMES ALLDER FRANK ANGELLILO TAKEO ASAKAWA MITCHELL BAIN

MICHAEL BASIN KENNETH BERG DEAN BOATRIGHT LOUIS BOGART LEON BASS

RICHARD BRIDGES RODNEY BUNKER WILLIAM CALHOUN COY CANTRELL DANIEL CARNEY

SAM COOK HAROLD COULTER MALCOLM DAVIS BILL DEAN GARDNER EARLE

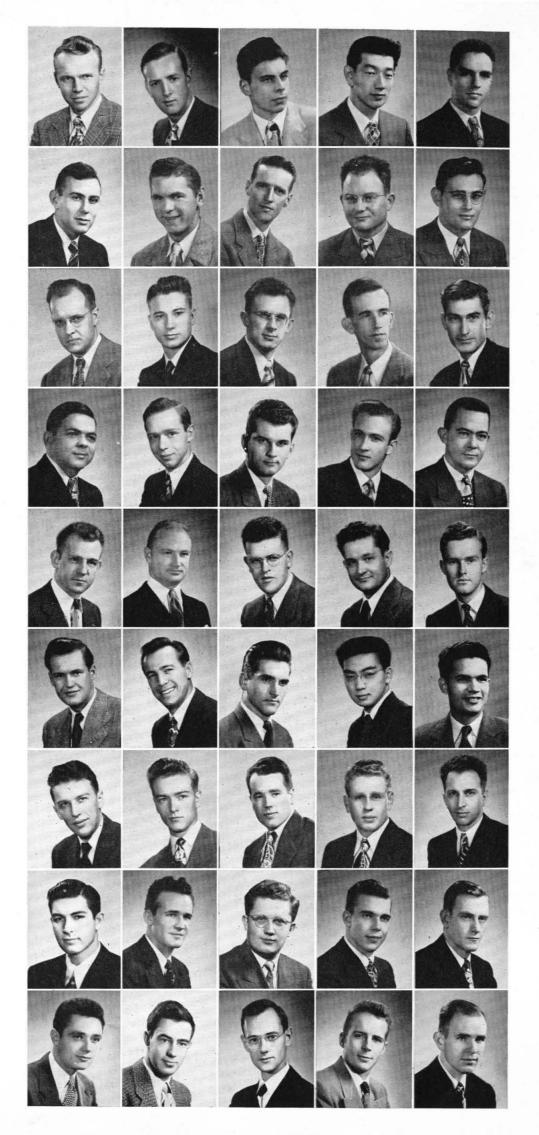
WILLIAM EILAU CARROLL FRISWOLD HERBERT FORRESTER VICTOR GATES JAMES GERHART

JOHN GLIEVER CLINTON HALE RAYMOND HEACOCK SHIGERU HONDA FRANK HOOPER

RALPH HORN BOYD ISRAELSON ALBERT JACKSON HAROLD JACKSON JEROME JACOBS

DON JARMS DONALD KENDALL RICHARD KENNON JAMES KOHL WARREN KRUM

JOHN KINKEL ROBERT LEROY DONALD MACDOUGALL DAVID MANNING MAX MATHEWS





ANDREW McINNIS ALBERT McLELLAN WILLIAM MCLELLAN JAN NARUD WHEELER NORTH

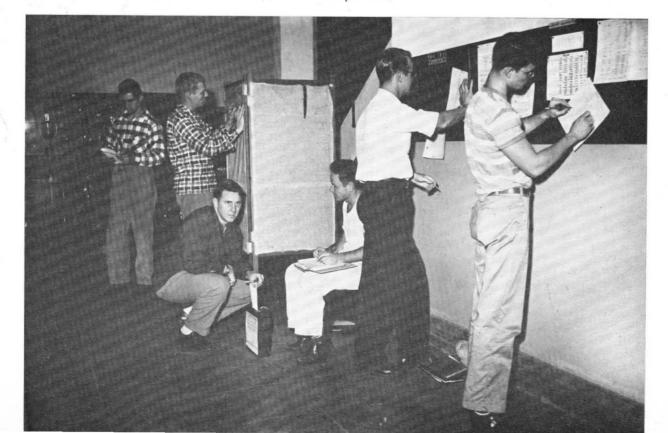
RICHARD NUNO DON OSWALD BRECK PARKER STEPHEN PATTIN RICHARD PERRY

JOHN REEDS ED REVAY HENRY RICHTER MARCO ROMERO MARTIN ROSS

WILLIS ROSSER TERRY SANDERS ARTHUR SAVRAN DAN SCHUSTER HENRY SHAPIRO

THEODORE SHELDON RAYMOND SJODIN PAUL SKOGLUND DONALD SNOWDEN MELVIN SPRECHER

That off campus vote





Officers' Club

OFF CAMPUS

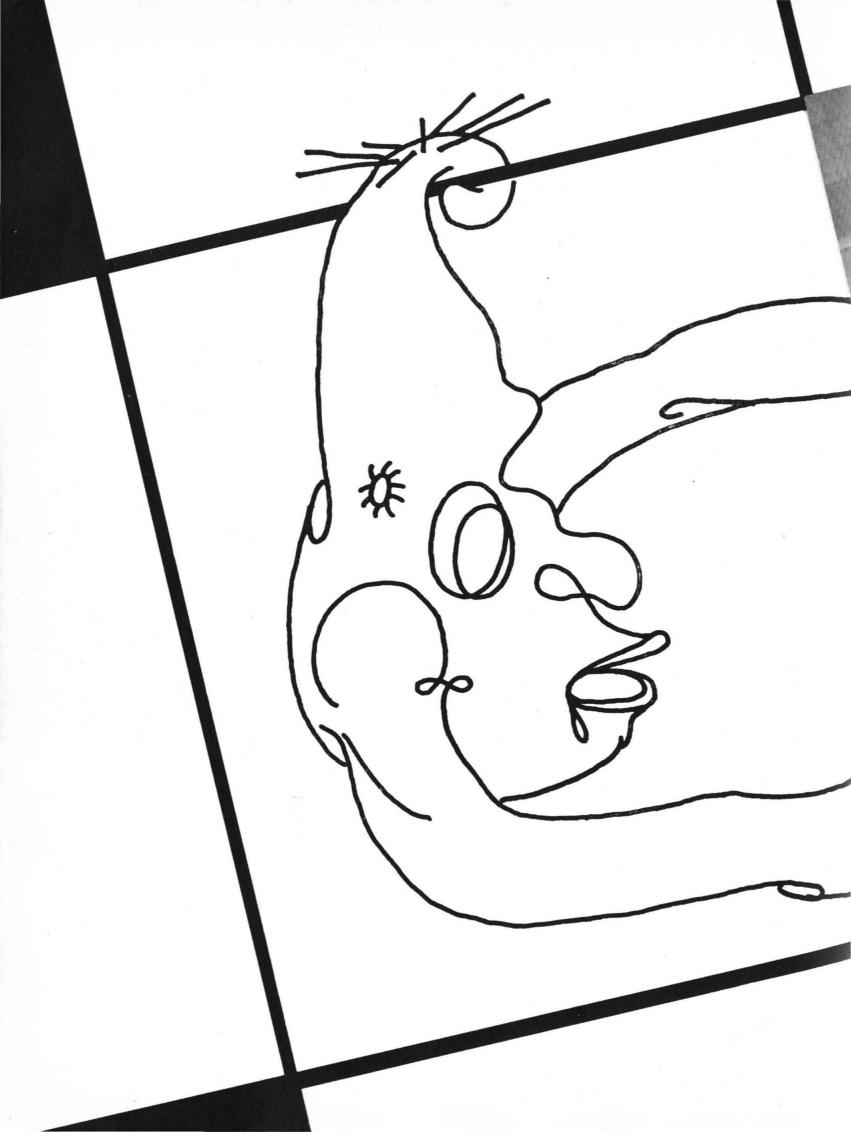
HAROLD STREAKER DON STILLMAN BOB STERT TOM STAUFFER DEE SWAYZE

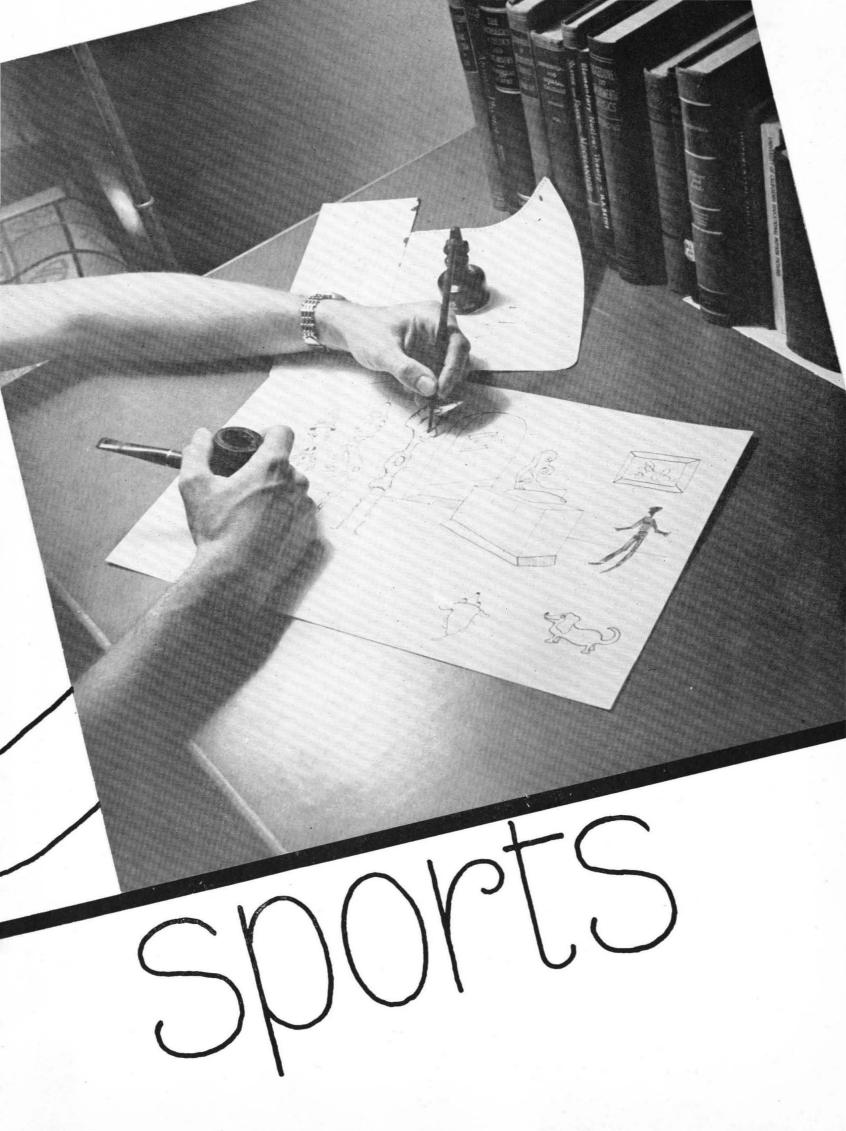
ALBERT TOMSIK GEORGE TRILLING HARRY VAN AKIN NORMAN VAN ARSDALL JOHN VROLYK

HARRY VINCENT KENT WANLASS RICHARD WEEKS RICHARD WHITE WARREN WHITING

WILBUR WIKHOLM JOHN WILKENING CHARLES WILLITS WILLIAM WISE STANLEY ZWICK











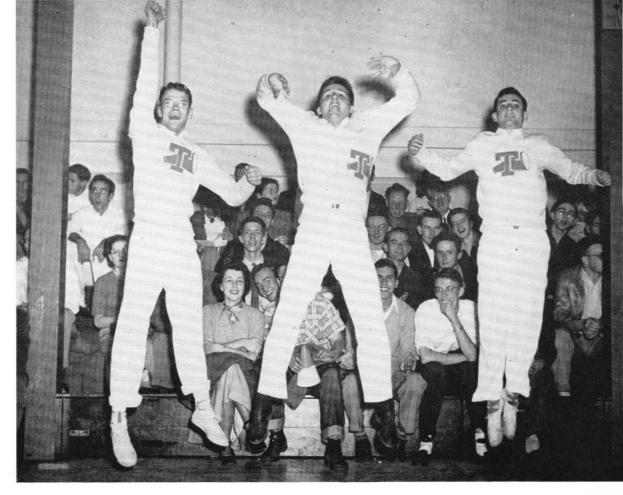
HAL MUSSELMAN

MIRIAM COYLE, LOUISE McGEE

ATHLETIC OFFICE

COACHES NERRIE, LA BRUCHERIE, PREISLER





LEO BAGGERLY, ULRICH MERTEN (HEAD YELL LEADER), CHUCK MILLER

VARSITY CLUB

This year the Varsity Club suffered a flank attack by the Deans just as they were about to perform their traditional duties of Baptizing the frosh. The frosh, righteously indignant about being cheated of this traditional pleasure, hydraulically displayed their regret to the Varsity Club when it lined up for the picture at the right. The greatest net result was the startling of two Varsity men into blurring their pictures.

SERENO, TYSON, MONTGOMERY, CARSON, POINDEXTER, REVAY, MARKS, BOWEN, WALT, SCHROEDER, REED, COX, HALL, BLOM CLARK, HOUSER, SELLEN, KAM, STONE, HEDRICK, BAKER

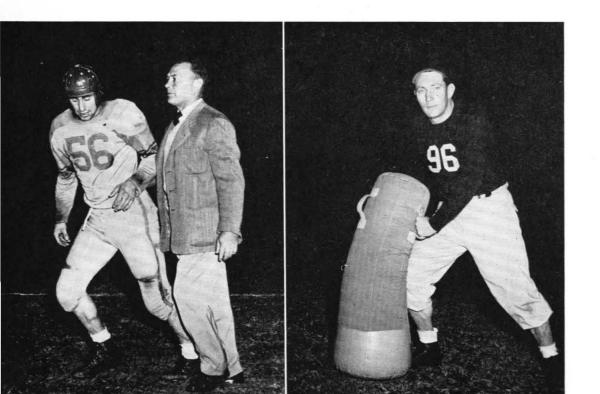




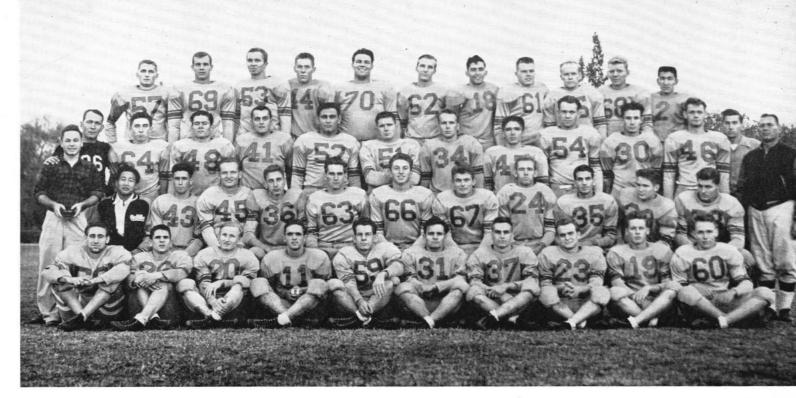
KARASAWA AGAINST WHITTIER

FOOTBALL

COACH BERT LABRUCHERIE, PETE MERRINGER



It was a bleak autumn for the Tech gridmen, but not cold enough to cool the enthusiasm of the rooters. Scores showed little of the actual Tech action on the field, and none of the spirit that was rampant both on the field and in the stands. Cheering held up through the fall into the Athletic Banquet, where Odell Carson was made Captain, and Don Baker was awarded the Wheaton Trophy. Carson also was placed on the all-SCIC team at end. Woody made second-string fullback.



DESTABELLE, TYSON, BLOM, RANDY MOORE, MILLER, MARKS, REEDS, LEWIS, REED, NORM SCHROEDER, KARASAWA. COACH PETE MEHRINGER, NORM PECK, LAMAR, BERNER, BASS, BARRIE, MANNING, KEIR, BOWEN, CARSON, MICHAELSON, VOGEL, COACH BERT LABRUCHERIE. HOWARD MOORE, KAM, PARNES, DWIGHT SCHROEDER, FREED, MARSHALL, SCHMID, SCHOFIELD, WILCOX, SERENO, DALLAS PECK, FULLER.

WOODY, DAYMAN, PAULSON, BENNET, HANNA, WORRELL, BAKER, DAVIS, MIDDLEBROOK, JOINER.

FOOTBALL

KARASAWA, DAYMAN

LEWIS, TYSON

ARIZONA STATE 43, CALTECH 13

A surprise opener that was decided by both ground aid and air assaults. Don Baker provided the thrill of the game when he took a punt with seconds to play and ran 60 yards to score.

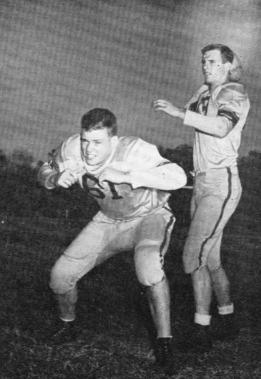
LAVERNE 6, CALTECH 6

A greatly improved Beaver eleven repeatedly smashed the Leopards' running attempts. Marks and Reed grabbed anything that tried the center, helping us to the deadlock.

CAL POLY 37, CALTECH 12

The Beavers out first-downed and out passed, but failed amazingly on the scoreboard. Harold Woody fullbacked his way to inspired gains and a spot on the all-SCIC team.











CARSON AT POMONA

WHITTIER 55, CALTECH 7

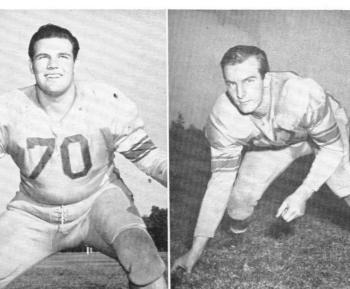
Caltech's initial SCIC game was a good indication of how Whittier swept the conference. Three TD producing boners on the part of the Beaver offense provided openings to aid the Poets' large-scale ground victory. Sophomore Babe Karasawa clicked on 10 passes for 116 yards, helping Tech's longest drive of the season. Starting on their 20 yard line, the Engineers passed and ran through a six first-down drive that ended in the lone score. Orchids to Carson for an inspired evasive 35 yard pass reception in the second quarter.

POMONA 32, CALTECH 12

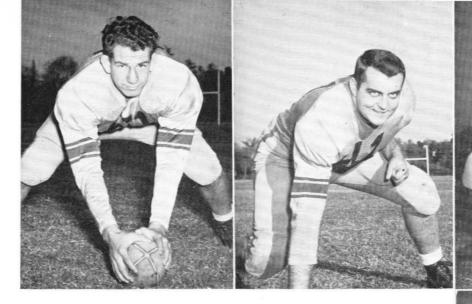
In this, Tech's best game of the season, the team shone on everything but touchdowns. Pomona put to good use the seven (7) Tech fumbles and, seemingly unaware of any long-sided statistics, pushed across their five scores. Hal Tyson saved the Engineers 37 yards (on the average) each of the several times he gave fourth-down transfusions with his well-educated toe. As has been true only too often, Tech errors were their own undoing as a pass interception and two recovered fumbles materialized into foe tallies.

BAKER (WHEATON TROPHY), CARSON (CAPTAIN), SCHMID

BOWEN, MILLER, MARKS







HANNA, BERNER, BLOM REED, SCHOFIELD, PECK

OCCIDENTAL 42, CALTECH 7

In the 36th Oxy-Tech classic, the Tigers rolled up one of their most decisive wins. Drawing blood in every quarter, Oxy scored on the opening kickoff and jacked up the score to 21-0 in the first 15 minutes. Typical of this year's eleven the statistics again favored the Orange and White, particularly in the first-downs colmn—19-8. After Oxy's first quarter rampage, the Techmen held the Tigers to a single TD per quarter, giving them scores on a fumble in the second and pass interceptions in the third and fourth.

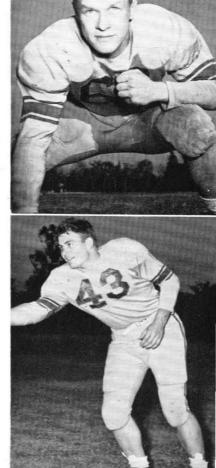
REDLANDS 28, CALTECH 0

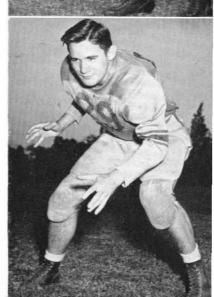
For the first time in the season, Tech gridders were beaten solely through the air. Four beautifully executed long pass plays lead to the four Bulldog scores. Credited to Redlands' passers were 13 out of 18 passes completed, netting 298 yards and deciding the encounter. Failing to score for the first time in the season, Tech found most of its daylight through the line, being choked around the ends and through the air. The outstanding play of the game was Bain Dayman's forty yard kickoff return. Beyond that, Beaver offense fell flat.

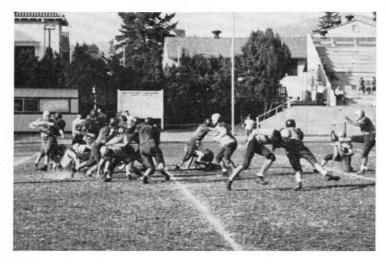


SCHROEDER AGAINST OXY









FROSH AT WHITTIER

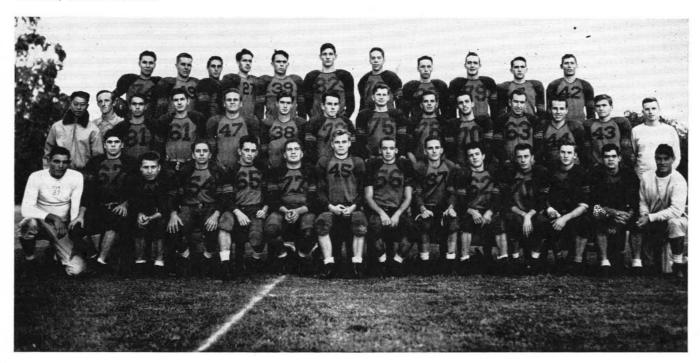
FROSH FOOTBALL

This year's Frosh football team was probably the best one assembled in several years. Under the expert guidance of Coach Ed Preisler and Line Coach Mannie Bass the frosh gained the valuable experience that will be so necessary when some of them step up next year to fill Varsity vacancies. The team as a whole showed very good spirit, providing strong competition for its opponents, and even won a

game. The Big Game was against Redlands, and was the first Frosh win since 1941. Congratulations are in order.

The scores:	
Whittier	Caltech0
Pomona	Caltech
Occidental	Caltech0
Caltech	Redlands

WESSEL, WALLACE, TEAGUE, HOUSDEN, HELIN, MUEHLBERGER, RAMBOW, STEVENS, JANSSENS, GARDNER, GEE LEE, BANKS (MGR.), STRANAHAN, DARMS, KUBIK, STEFANIDES, JORDAN, PITTON, TALLMAN, WILLENS, MOORE, PETERSON, JOHNSON, MENDENHALL (MGR.) ASSISTANT COACH BASS. BATES, NOVET, RUBIN, FAZIO, PILANT, COSAND, ROMINE, LATOURETTE, WALKER, IRELAND, WILMORE, BURGER, COACH PREISLER





TUG-O-WAR

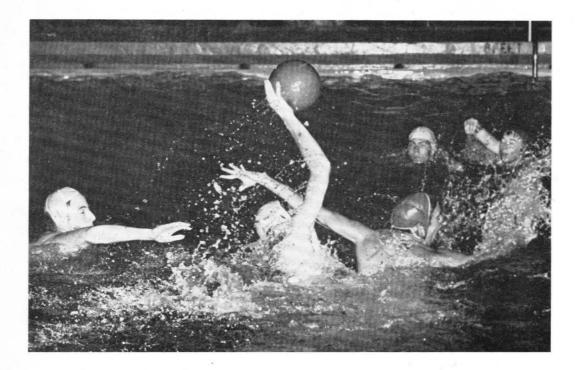
MUDEO

Experienced mudders of the class of '52 gave the willing frosh a beating above and beyond the call of duty. The only frosh points resulted from "illegal use of trees" by the sophs in the Tug-o-war. Discovery of this secret of sophomoric strength opened the season on Junior judges, but didn't help pay for the Soph-Frosh Dance.

TIRE SPREE

A JUNIOR JUDGE





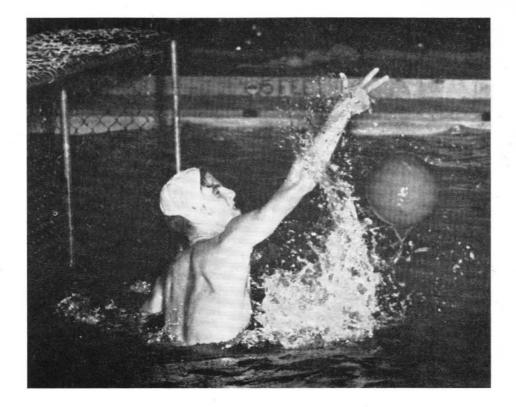


COACH BILL PALMER

WATER POLO

COACH PALMER, HALL, LIBBEY, VONHERZEN, WEIL, KNIGHT, ENSLOW JOHANSSON, ESCHNER, ARMSTRONG, QUANDT (ASSISTANT COACH) REINECKE, BARMORE, HOWELL, DYER





FROSH WATER POLO

This season Caltech had one of the best water polo teams assembled in recent years. Coach Bill Palmer, captain of last year's squad, had an unusually large turnout from which to build a team. The majority of the matches were with non-conference schools, as Occidental is the only other conference school to recognize the sport.

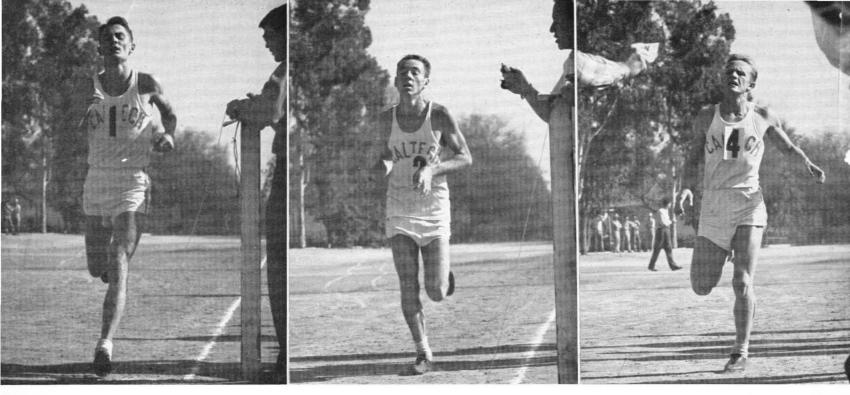
Caltech	UCLA Frosh
Caltech	Compton JCI
Occidental7	Caltech2
Caltech	LoyolaI
Caltech	LACC2
Caltech	Glendale JC2
Caltech4	Muir
Occidental	CaltechI
El Camino7	CaltechI

For the first time in the history of the sport at Caltech, the Beavers fielded a Frosh team. The boys lacked experience at the beginning of the season, but learned fast and did surprisingly well. The Varsity team is losing eight seniors this year, but Alan Haire and a few other frosh will fill the vacancies and give us another winning Varsity team next year.

Caltech2	Muir JVI
UCLA Frosh8	Caltech4
Muir JV	Caltech4
Muir Varsity7	CaltechI
Occidental Frosh 6	CaltechI

VICKMAN, CONNOR, LYMAN, WYMAN STARR, HAIRE, SMITH





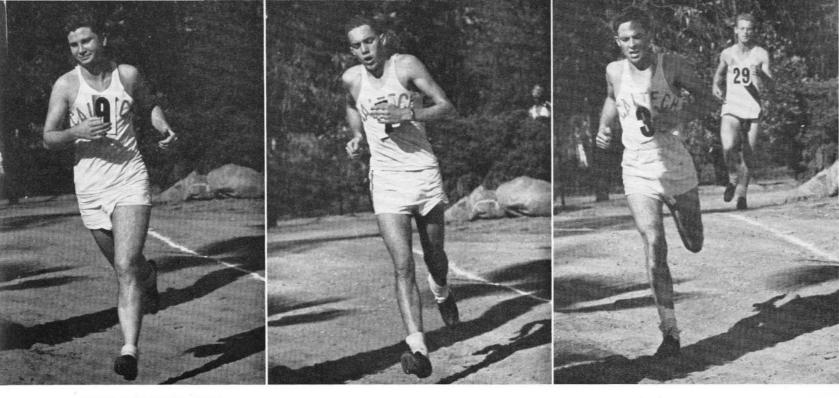
MASON, PILKINGTON, HOUSER

CROSS COUNTRY

Despite the loss of several of last year's best men, the Varsity Cross Country team managed to give a good account of itself in conference competition. Piloted by Coach E. J. Brown, the Tech Leatherlungs finished second in the All-Conference meet, and tied with Pomona in the conference dual meets. Both conference losses were close ones to Oxy. In the dual meets the Beavers lost to Oxy 27-30, tied Pomona 28-28, and won over Whittier 17-42, and Redlands 22-37. Results of the All-Conference meet were Oxy 36, Caltech 38, Pomona 63, and Redlands 94. Non-conference meets include a loss to PCC and wins over Santa Barbara, Los Angeles State, and Cal Poly at San Dimas.



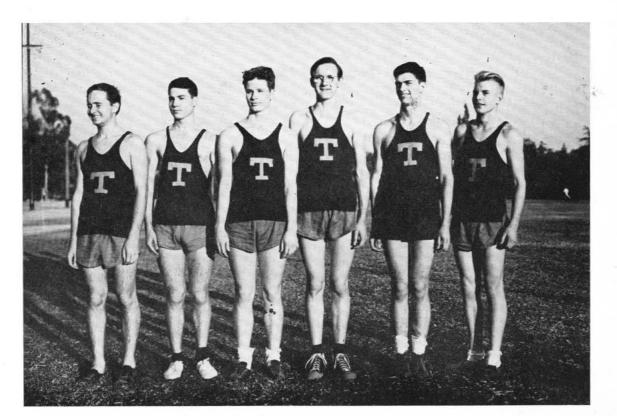
BJERKLIE (MGR.) BOWERMAN, MASON, LANSDOWN, TRACY HOUSER, COACH ERLE BROWN DICKENSON, SMITH, SELLEN, PILKINGTON, COBB, SHAKESPEARE



SMITH, DICKENSON, COBB

FROSH CROSS COUNTRY

Highlight of the Frosh Fall Sports Schedule was the short but glittering Cross-country season. The Frosh harriers won over Pomona 24-32, downed Redlands and Whittier by forfeit, and tied Oxy 28-28 in the dual meet championships. They finished second to Oxy by a close 36-39 margin in the final conference meet. Dewey Marshall deserves credit for being the first Caltech finisher on every run.



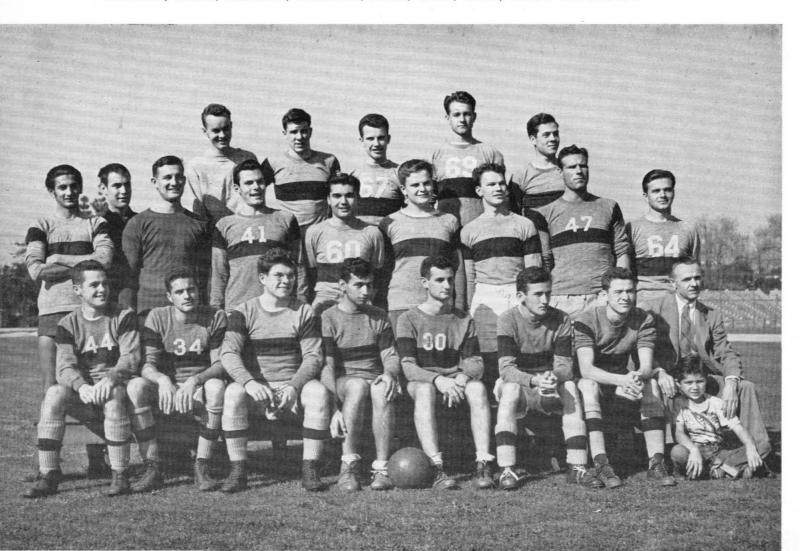
SCOTT, TWINING, THOMAS, POLLET, MARSHALL, STOFEL



ED WELCH AND SOUTHERN CAL

SOCCER

ASQUITH, HAEFLIGER, PRICE, FAIRALL, WILLIAMSON BHANJ-DEO, CRICHTON, MUEHLBERGER, NOBLE, SCHLINGER, WELCH, BAGGERLY, OTTE, CLUTZ, (MANAGER) MACKENZIE, MARTIN, EMMERSON, HERSCOVICI, MILLER, WOOD, INGLIS, COACH HILL AND SON





CIT VS SC

The soccer team, bolstered by the reappearance of ten of last year's players, looked forward to a very good season when they assembled at the beginning of the year. The schedule confronting them appeared to be more of a challenge than an insurmountable obstacle. Bright hopes dimmed, however, when our opponents won all but two of the eight games. Four of the games lost saw but a one goal difference between the two teams.

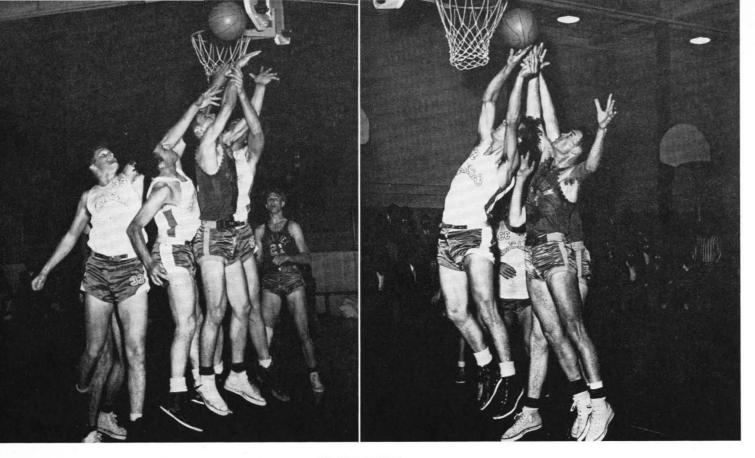
The season started off well, UCLA's second team being shutout, two to nothing. Eager for revenge, the Bruins roared back to Tech the following week to start the Beavers on a long trail of defeats, unbroken until Pomona went down, five to two, in the last game of the season. The scores:

Caltech	2	UCLA	0
UCLA	3	Caltech	2
Victorians	3	Caltech	2
Thatcher	2	Caltech	1
S. F. State	3	Caltech	2
USC	7	Caltech	4
USC	4	Caltech	2
Caltech	5	Pomona	2



CAREL OTTE





CIT VS WHITTIER

BASKETBALL

Traveling to Redlands after a long Christmas layoff, the Beavers dropped their first conference start. The next week, however, proved to be the high spot of the season as the team hustled to a 49-35 win over the Whittier Poets. Pomona and Oxy took the next two.

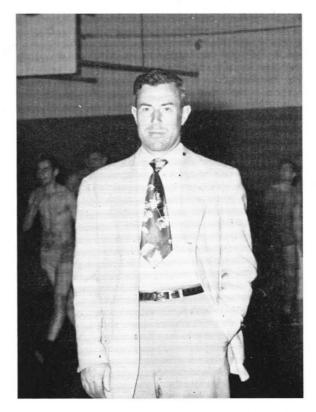
The second round of league play opened with Redlands, the eventual league titleholder, moving to the Tech home court for a near upset. The score was 34-37, with the issue in doubt until the final gun. Whittier and

COX, LIBBEY, SWEET, BUTLER, BOWEN, BROWN, CASSIDY (MGR.) PATAPOFF, DAILY, MONTGOMERY, COACH SHY, GRAY, SERENO, STERN

Pomona also won their return games, and Oxy finished our season with a 55-44 defeat.

In league play the team won one and lost seven; for the season the record was five and eleven. Cox and Butler were placed on the All-SCIC team, and Cox and Montgomery were selected by the team to be the first recipients of the Vesper Trophy, awarded annually on the basis of sportsmanship, improvement, moral influence. and scholarship.

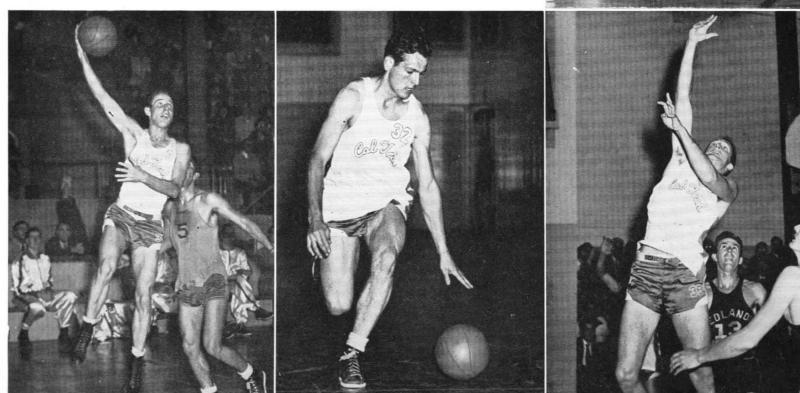


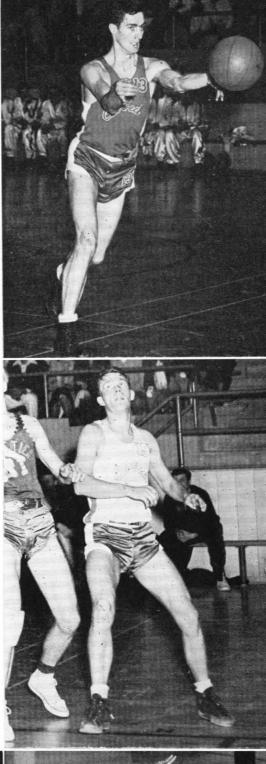


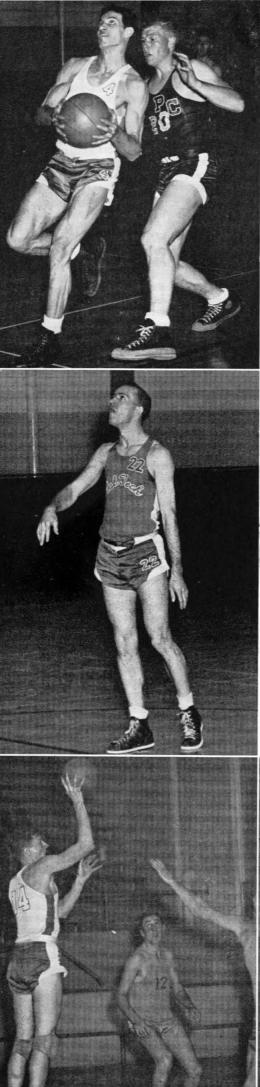
COACH SHY

League scores:			
Redlands	58	Caltech	38
Caltech	49	Whittier	35
Pomona	36	Caltech	31
Oxy	44	Caltech	33
Redlands	37	Caltech	34
Whittier	43	Caltech	31
Pomona	37	Caltech	31
Oxy	55	Caltech	44

COX, BOWEN MONTGOMERY, PATAPOFF, BUTLER





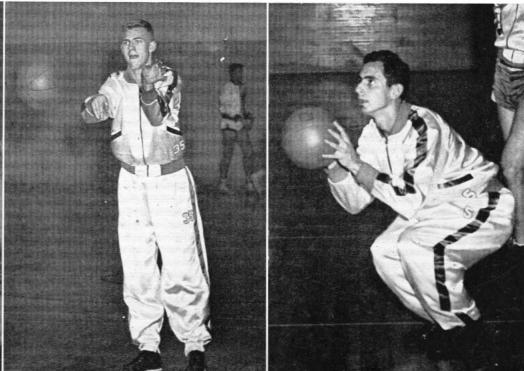




LIBBEY AGAINST OXY

BASKETBALL

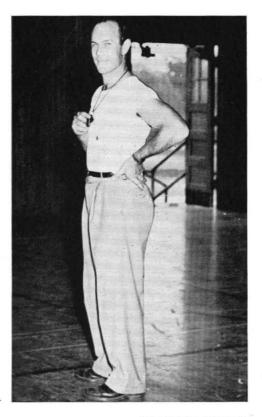
SERENO, GRAY LIBBEY, TAUTZ, STERN





LETOURNEAU, WOOD, IRELAND, MUEHLBERGER, HAMBERGER, PATCHEN, JANSENS, COACH ED PREISLER. SCOTT, CORPARALES, GEE, STEVENS, BROWN, EYLAR

FROSH BASKETBALL



Frosh league scores:

47

52

55

45

51

62

43

40

Non-conference, but notable:

Caltech

Caltech

Caltech

Caltech

Caltech

Caltech

Caltech

Caltech

45 Cal Poly

Redlands

Whittier

Pomona

Redlands

Whittier

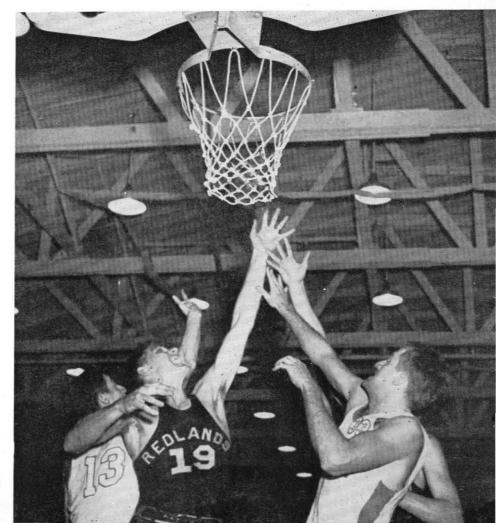
Pomona

Caltech

Oxy

Oxy

COACH ED PREISLER



BUTLER AGAINST REDLANDS





OLLIE GARDNER, BOB STANAWAY, DICK JONES AND JIM BLOM

SKI TEAM

An almost unbeatable team turned out to give Tech its most successful skiing season in years. During the winter the Beavers scored victories over Southern Cal, Muir, and PCC. UCLA was the only team that prevented a perfect season. Despite the loss of Jim Blom, retiring senior, high hopes are held for next year's team with Dick Jones, Bob Stanaway, and promising frosh George Stranahan.



GARDNER, STRANAHAN, JONES, STANAWAY, BLOM, THORTENSEN, VREUGDE (MGR.), PRICE



BLANCHARD, STRANAHAN, SMITH, KLARFELD, McQUISTON, BLOM, VREUGDE, MICHAELSON GARDNER, BARMORE, GALE, STARR, STANAWAY, TAUTZ, JONES, PRICE



SKI CLUB

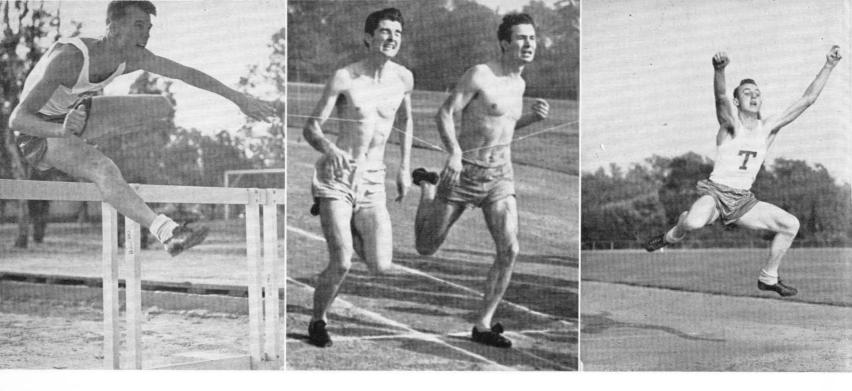
SAILING

This year was an exceptionally active one for the Sailing Club. Besides the usual midwinter regatta, there were dual meets with Cal and Muir. The Christmas meet saw the sailors sunk in the

The Christmas meet saw the sailors sunk in the home waters of Balboa at the able hands of Cal and Stanford. In February the Beavers went north to S an Francisco Bay to a g a in follow Cal by a close margin. May saw the final race of the season, a dual meet with Muir College that ended in Beaver defeat. Art Cuse was Commo-

Art Cuse was Commodore for the season, Don Royce was Rear Commodore, and Fernanado Corbato was Vice Commodore.

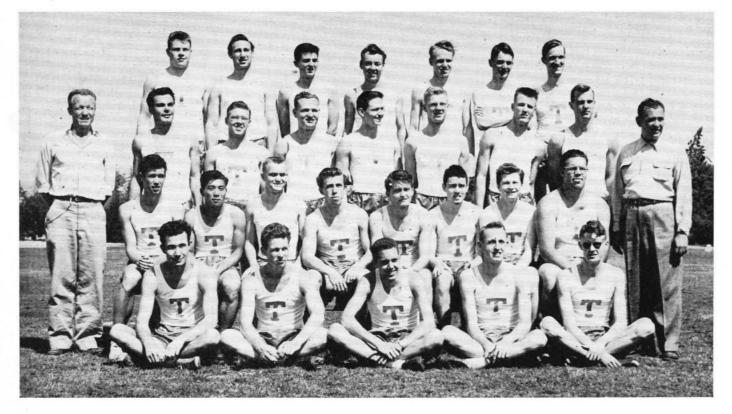




IRWIN, EDWARDS, CARSON, WAID

TRACK

LEWIS, WOODY EDWARDS, PILKINGTON, AAGAARD, MASON, LANSDOWN COACH ERLE BROWN, NOBLE, STANAWAY, SCHROEDER, WALT, TAUTZ, IRWIN, TYSON, COACH BERT LaBRUCHERIE PARNES,, KAMEI, DAVIS, COOK, RIGGS, BRODY, SMITH, MILLER CARSON, MIDDLEBROOK, DICKENSON, WALD, SOULE



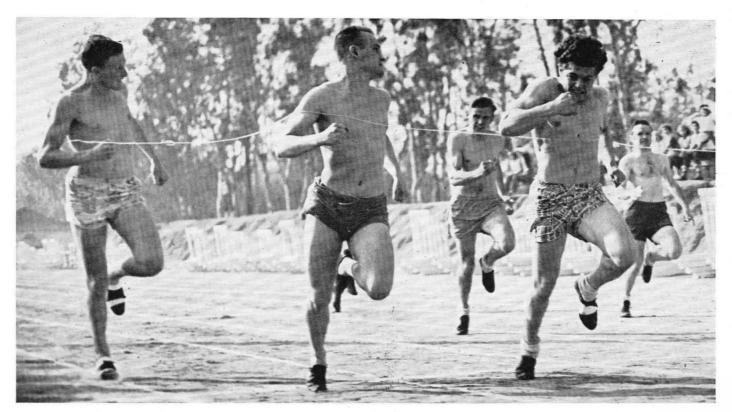


MASON, WALT, SCHROEDER

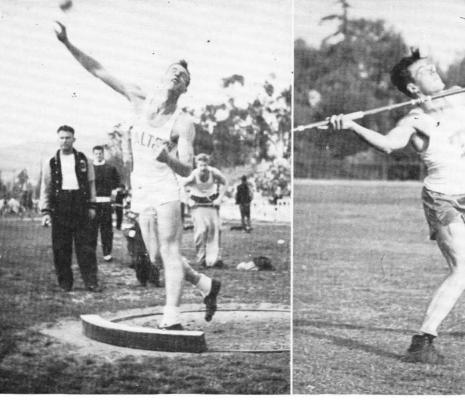
The enthusiasm and encouragement of the new track coach Bert LaBrucherie drew large crowds of Techmen from their pits to the biggest and most successful track turnout in recent years. The Beavers finished second in the conference, being beaten only by Oxy. Pomona, Redlands, and Whittier all fell to the Engineers' axe during the course of the season, but had revenge when Tech failed to show at the All-Conference meet.

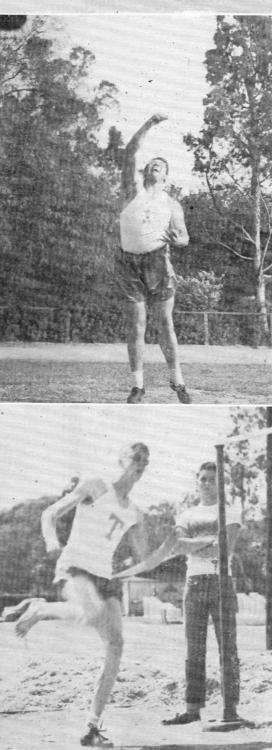
All-purpose Schroeder was by far the high-point man of the season, and Waid and Tyson were also outstanding. Tyson broke the school record in the shotput, and threatened within a quarter of an inch the conference meet record.

DAVIS AND WALKER









PARNES, TYSON, NOBLE MILLER SOULE

TRACK

COACH BERT LaBRUCHERIE, ERLE BROWN





PILKINGTON, COBB, LEWIS

FROSH TRACK

Frosh scor	es:			
Citrus JC	87	Caltech	43	
Oxy	94	Caltech	37	
Pomona	73	Caltech	52	
Caltech	75	Whittier 5	51/2	
		Redlands 2	271/5	

Conference Relays: Oxy, 64; Pomona, 151/2; Caltech, 131/2; Whittier, 13.

All-Conference Meet: Oxy, 75 $\frac{1}{3}$; Pomona, 40 $\frac{2}{3}$; Caltech, 23; Whittier, 20; Redlands, 6.

COACH ERLE BROWN, STEVENS, WINSLOW, MOORE, MUEHLBERGER, KUBIK, VEAZEY, ROBKIN, KLIEGEL, HENDRICKSON, COACH BERT LaBRUCHERIE PILANT, JORDAN, TEAGUE, JOHNSON, BLODGETT, STEFANIDES, SCOTT, LATOURETTE, WALKER, FAZIO



CIT VS POMONA

broke Redlands' school record in the 100 yard freestyle, and Van Herzen was never defeated. Houser featured strong distance swimming. Freestyle relays were the Beavers' hole card, pulling up the score on three meets.

BARMORE, JOHANSSON, LIBBEY, WEIL, REINECKE, VAN HERZEN, MERTEN ENSLOW, HOUSER, LAFF, WORRELL, QUANDT

This year the swimming team had a small but

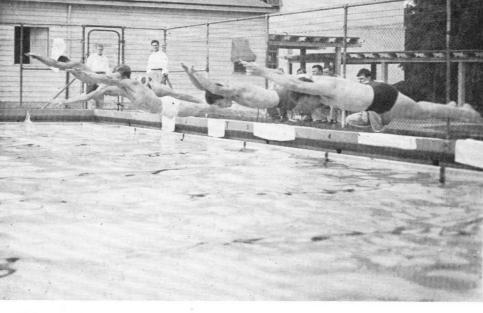
powerful turnout. It took second place in the dual

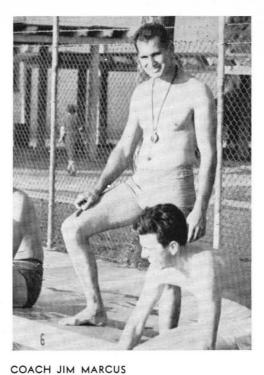
meets, the only losses being to the potent Oxy

squad. Libbey, Van Herzen, and Houser were the real backbone of the team. Libbey unofficially

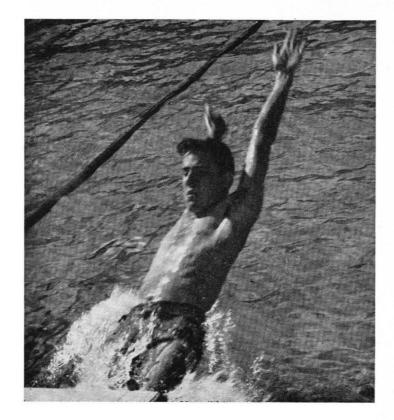


SWIMMING









ED REINECKE

MORGAN OGILVIE

FROSH SWIMMING

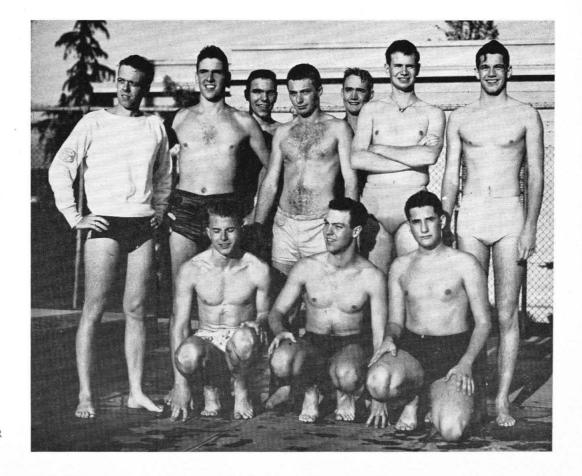
League scores:

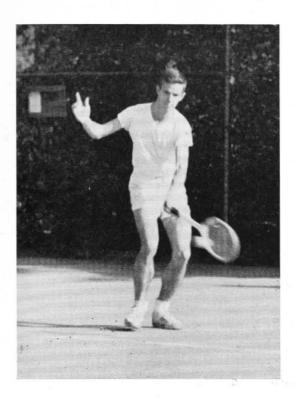
Caltech	52	Whittier	23
Caltech	40	Pomona	35
Oxy	54	Caltech	21
Caltech	391/2	Pomona	351/2
Caltech	58	Whittier	16
Oxy	59	Caltech	16
Caltech	42	Redlands	33

Frosh league scores:

Caltech	21	Whittier	6
Pomona	43	Caltech	22
Oxy	42	Caltech	28
Pomona	39	Caltech	9
Oxy	40	Caltech	20

ENSLOW, OGILVIE, STOCKEBRAND, VICKMAN, JANSSENS, PITTON, CONNOR STOFEL, HAIRE, STARR





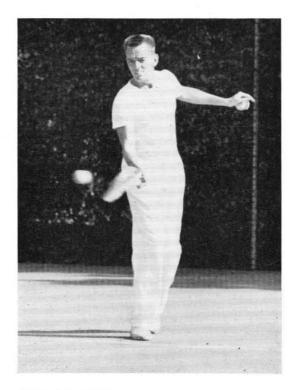
JACK MARTIN

DEAN BLANCHARD

TENNIS

COACH JOHNNY LAMB, DESSLER, LAFLEUR, BUTLER, SCHMID, HYMAN, BLANCHARD B. WELCH, BAIER, STONE, POINDEXTER, E. WELCH, MARTIN

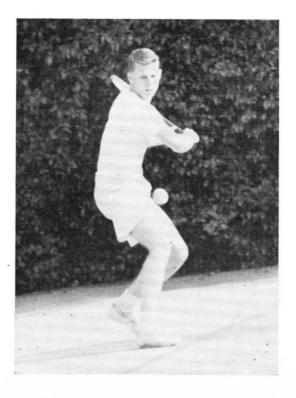




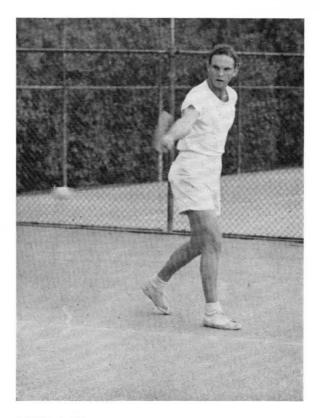
JOHN POINDEXTER

The Caltech tennis team did not have a very successful season. The loss of half of last year's championship team was too large a handicap for the Beavers to overcome. With the problem of lost seniors confronting him, Coach Johnny Lamb chose a long range plan and decided to start work on next year's team, giving a large group of players all the experience they could get. Captain Jack Poindexter is the only member of the team who will not be returning next year, and promising frosh such as Smith and Eylar should supply ample replacements. Jack Martin played number one throughout the season, followed by Dean Blanchard, Jack Poindexter, and Roger Baier. The next three

B. WELCH



J. LAFLEUR



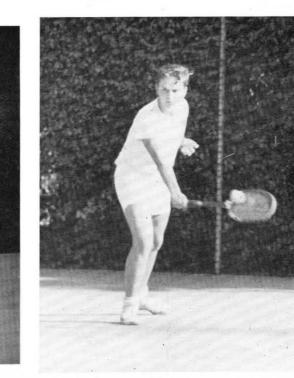
ROGER BAIER

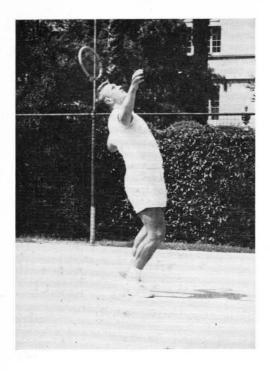
positions were hotly contested throughout the year between Berk Welch. Ed Welch. and Jim LaFleur.

Scores:

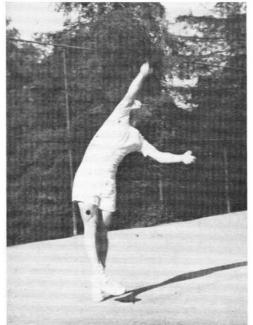
Caltech	41/2	LACC	41/2
Redlands	´9	Caltech	4 ⁷ /2
Oxy	8	Caltech	1
Pomona	7	Caltech	2
Caltech	5	Muir	4
Redlands	9	Caltech	0
Whittier	5	Caltech	4
Loyola	7	Caltech	2
Pomona	7	Caltech	2
Oxy	7	Caltech	2

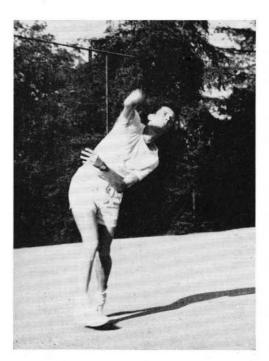
E. WELCH





FROSH TENNIS

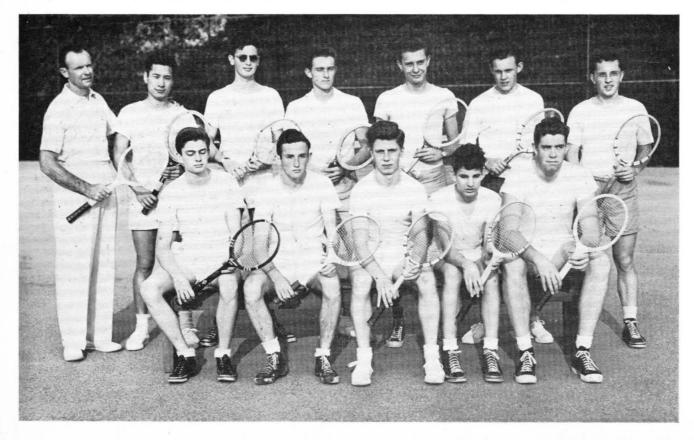




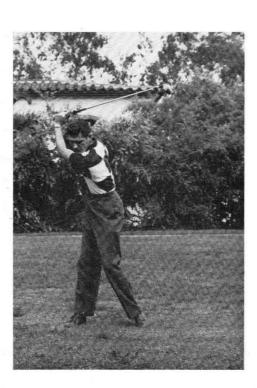
SMITH EYLAR IRELAND

Caltech	8	Cal Poly	1
Caltech	7	Redlands	2
Oxy	5	Caltech	3
Pomona	8	Caltech	1
Caltech	7	Cal Poly	1
Caltech	7	Redlands	2
Caltech	9	Whittier	0
Pomona	5	Caltech	4

COACH JOHNNY LAMB, WONG, HARRISON, EMERY, IRELAND, STANNARD, EYLER McCORMICK, WOOD, EAGER, ALLISON, SALSBURY



GOLF







SIMS BENNET REVAY

101/2	Whittier	71/2
9	Oxy	9
17	Caltech	1
11	Whittier	7
121/2	Caltech	51/2
141/2	Oxy	31/2
	9 17 11 12 ¹ /2	9 Oxy 17 Caltech 11 Whittier 12½ Caltech

BENNET, REVAY, HOLMES, MOFFAT HANNA, SIMS, PARDEE



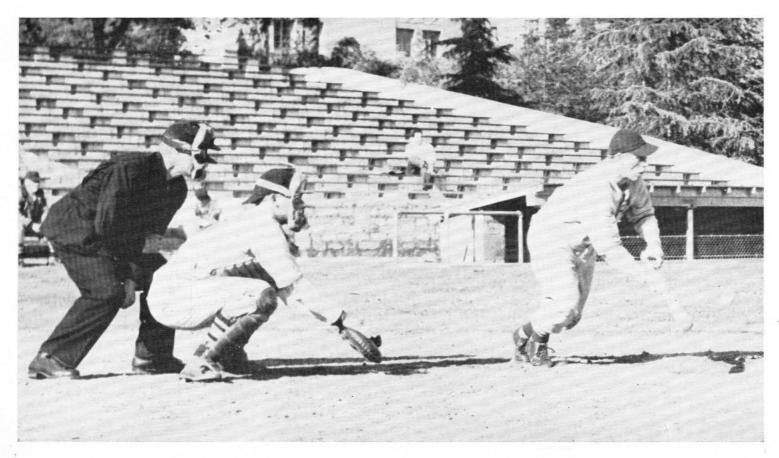


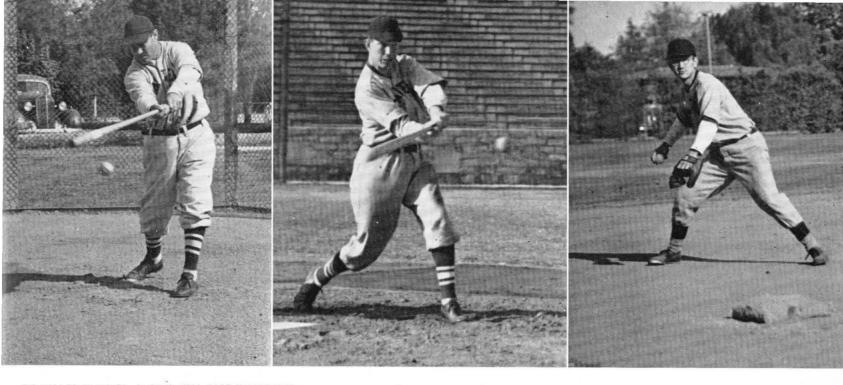
DON BAKER

BERT SNYDER

BASEBALL

WALT PFEIFER





COACH ED PREISLER, JACK SMITH, BABE KARASAWA

Caltech's 1950 model baseball team opened the season with a grave lack of experienced players. Only six lettermen returned to aid the Beavers in getting started. The opening games showed strong hitting, but errors in the field swamped the Tech bat talent. As the season advanced, however, the juggling smoothed out, resulting in several wins. The battery of Gray and Pfeifer, backed up by such players as Stallkamp, Smith, Karasawa, and Baker should give the Engineers a successful season.

Scores:			
Whittier	4	Caltech	1
Pomona	5	Caltech	3
Caltech	5	Chapman	3
Redlands	3	Caltech	0
Oxy	13	Caltech	5
Caltech	10	Pomona	4
Caltech	5	Chapman	3
Whittier	8	Caltech	4
Caltech	5	Oxy	2

SNYDER, WISE, GRAY, JOHNSON, ROYCE, KOONS, NEVERMAN, COACH ED PREISLER, MOORE (MGR) KAM, STALLKAMP, BAKER, McCOURT, KARASAWA, SMITH, DAILY, JOHNSTON.





NORM GRAY

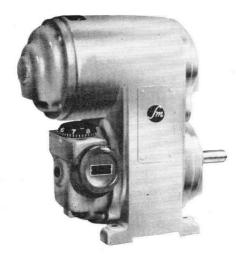
LOU STALLKAMP

FROSH BASEBALL

Whittier	21	Caltech	5
Caltech	3	Pomona	0
Caltech	3	Oxy	3
Pomona	18	Caltech	8
Caltech	5	Whittier	3
Caltech	_	Oxy	default

COACH MACDONALD, BANKS (MGR.), INGLIS, BROWN, WINSLOW, SANDERS, WILLENS, GEE, THORSON, PETRULOS (ASSISTANT COACH) CONNER, STANTON, PATTIN, SAUER, OGAWA, THURSTONE, PETERSON





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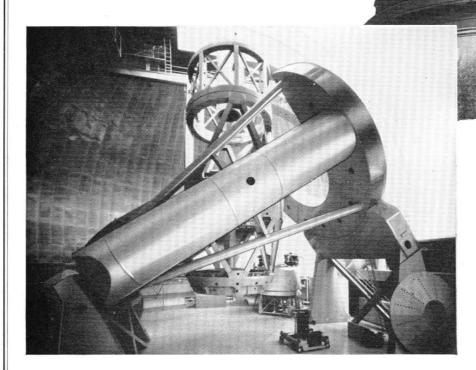


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Left: Hale telescope pointing to zenith; Cassegrain platform. Above: Dome of 200" Mt. Palomar telescope, conceived 20 years ago by the late Dr. George E. Hale of the California Institute of Technology. The tube is about 60 feet long and weighs 150 tons.

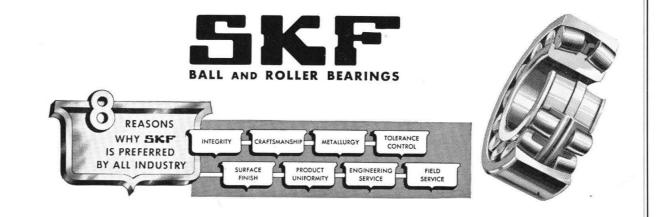
Far back in the dim depths of the early Seventeenth Century, Johannes Hevelius laboriously swung a telescope, 150 feet in length, from a giant mast, and operated it with block and tackle to seek out the eternal mysteries of the Heavens!

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Culture at Caltech

INTRODUCTION

By Bob Kurland

Culture at Caltech—this is the theme of the 1950 "Big T." But what, exactly, do we mean by culture, and to what extent does this definition apply to Caltech? Webster's dictionary lists several definitions of culture: "... the act of developing by education, or discipline; the training or refining of the moral and intellectual nature; the enlightenment and refinement of taste acquired by intellectual and aesthetic training; conversance with and taste in fine arts, humanities, and broad aspects of science—distinguished from vocational, technical, or professional skill or knowledge. ..." According to portions of the above definitions, the Caltech

According to portions of the above definitions, the Caltech student, merely by grinding away on long hours of textbook and laboratory studies, would be participating in cultural activities of a sort. But college studies are not the same as the education one receives at college; this education, in a larger sense, is the acquisition of culture; this culture may be defined as any activity by which the mental horizons are broadened; any means by which one may understand better the world about him—the world not only of equations, of test-tubes, and of stress-strain diagrams, but also the world of people and their relationships, the world of literature, of music, of philosophical speculation, of mental activity for its own sake.

In the light of this definition, the after-finals game of bridge is as much a part of the cultural milieu of Caltech as the long hours spent in class dissecting the works of musty Victorian poets. The record collections stocked with Teddy Wilson, Louis Armstrong, and Benny Goodman are just as "cultured" as those consisting of Vivaldi, Bach and Ravel—in fact, more often than not, the CIT student will have both types in his collection. Bull-sessions, dances, sports, in short the totality of activities in which we at Caltech participate, are all aspects, in varying degrees, of culture. However, five of these aspects are more representative than others of the extent of cultural activities at Caltech; these are "Bull-sessions," music, books, games, and art.

To see how, where, when, and why we at Caltech participate in these phases of culture, the following five reports have been included in this supplement.

BULL SESSIONS By Barney Engholm

As lightly as the traditional "bull session" may be taken by the modern college student, and as trivial as many of the giveand-take dormitory chitchats may appear to be uninitiated, we counter in defense of this noble sport by turning back the pages of history to the year 400 B. C. It was during this period that Socrates and Plato, two of the greatest educators of all time, were employing the method of "dialectics," long informal discussions with students involving random questions and answers about every conceivable subject, as their chief means of training young minds, of spreading culture, and of attaining a philosophy of life. Webster says that culture is the "enlightenment and refinement of taste acquired by intellectual and aesthetic training"; and how well these bull sessions of old, as it were, served to fulfill just this endeavor! Is it not logical to esteem the modern analogy of this type of learning as one of the truly important roads to general knowledge and to the understanding of life and the people with whom we live?

Perhaps the most active organization on the campus fostering the activity of forums, discussion groups, and panels is the Caltech branch of the YMCA. The Sunday Evening Firesides. which consist of informal student gatherings at various faculty homes, are noted for their ability to acquaint the student body with their teachers on an "off-the-campus" basis. Although one specific subject is often chosen for the evening's conversation,

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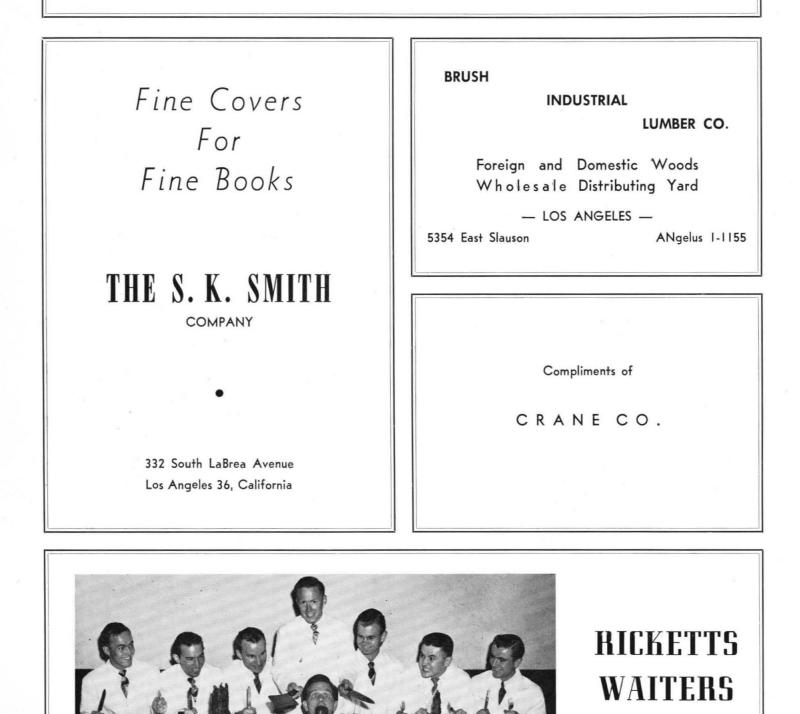
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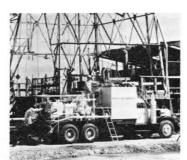


usually a whole gamut of interesting and timely issues is touched upon before the close of the fireside.

On Tuesday and Wednesday evenings throughout the year groups meet at the residence of Wes Hershey, the Executive Secretary of the Y, for discussions on recent books, current world problems, religious questions, and student affairs. These, too, are in a completely informal style, and tend to emphasize rational thinking by the student on deep questions.

The Y Radio Forum, which brings to the public a fifteenminute student panel on anything from "Recent Advances in Biology" to "Coeducation" every Wednseday evening over station KXLA; and the Caltech Debating team, which carries on active forensic contests with other college groups throughout the year, are two additional channels through which culture and education in the fields of liberal arts are made accessible to Tech men.

But to the average undergrad at the Institute the term "bull session" connotes much more than rote education. A small group of housemates, all of whom are loyal friends, sprawling around one of their rooms on the bed and any available chairs, with at least one of them puffing contentedly on an old pipe. some crackers or cheese sandwiches circulating around-perhaps a few ice cold cans of beer; and a general enthusiastic discussion in a reasonably high amplitude, on just about any controversial subject such as conscription, Swift or ME 3, sex, summer jobs, the H-Bomb or theology . . . this is the type of brotherly conversation that probably does more than any other factor in bringing harmony to the student body, providing transmission of ideas and an acceptance of the other guy's viewpoint, and helping form friendships which will be warmly remembered by the college alumnus as he sits resting by his fireplace twenty years from now.



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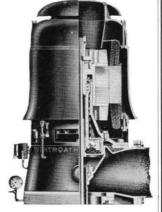
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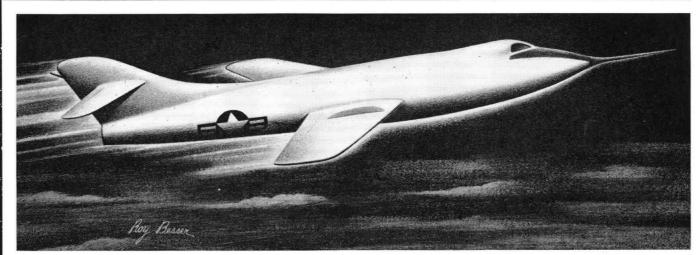
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MUSIC

By Bill Whitney

Caltech students find temporary release from the omnipresent pressure of "the books" in cultural diversions other than bridge games, chess, go, and spare-time reading. Possibly their most spontantaneous emotional and intellectual outlet is found through music and musical activities, whether they consist of attendance at a jazz or chamber music concert, or only singing in the showers.

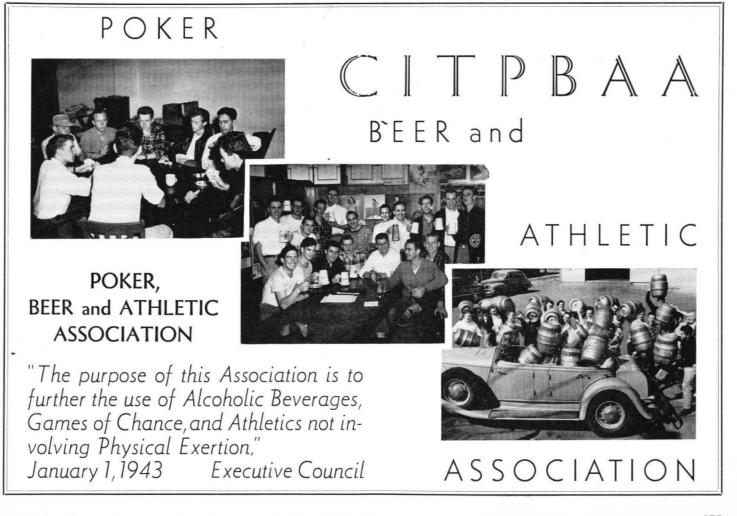
Most Caltech students are music-conscious. They listen constantly to music on the radio, and particularly to records. At all hours of the night and day, elaborate, home-made, playanything radio-phonograph combinations boom out at each other across the student house courts, except on occasions when the owners are asleep, or in the process of tearing down their equipment, then rebuilding it to conform to the latest standards of quality and volume of sound. Men with flea-power receivers and no phonographs at all connect up through extensive inter-alley, inter-room intercoms with some of the more powerful sets, in order to share some of the benefits of fullrange, noiseless, distortion-free reproduction. Record collections grow all over the student houses, vying with books for the available shelf space. In some rooms, the records seem to have won altogether.

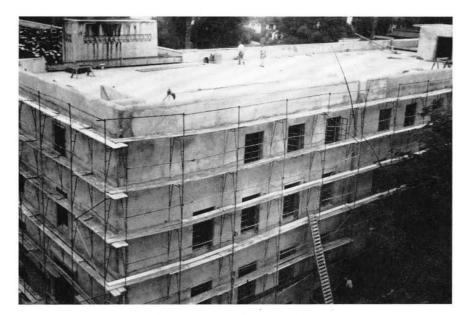
For students who don't have record collections of their own (also for those who do) there are the record stacks of the Musicale in the Dabney Hall of the Humanities. Every night finds a group of men in the Musicale listening room, dividing their attention between math or physics problems and the newest classical LP.

There are other opportunities for hearing music on the campus. During the Friday assembly periods, musical entertainment is often featured, a well known jazz combo having been the attraction at one of this year's second term assemblies. The Musicale presents Sunday evening record concerts in Dab-



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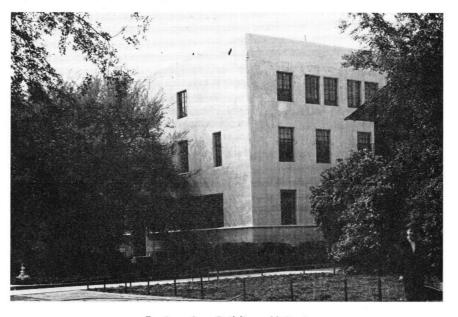
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ney Hall, and occasionally sponsors chamber music recitals.

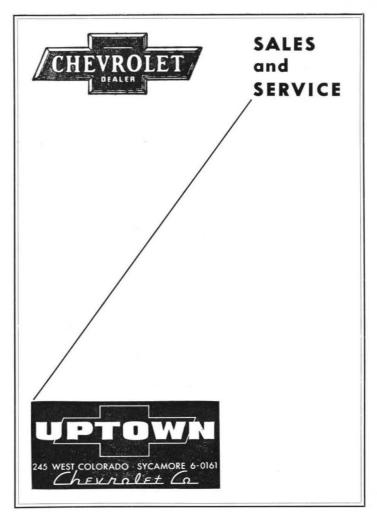
Men who do not hear enough "live" music on the campus to satisfy themselves travel to more distant parts, with dates or stagwise, to hear the Los Angeles Philharmonic. to take in an opera, or to drop in on some casual bop session at one of the local musicians' hangouts.

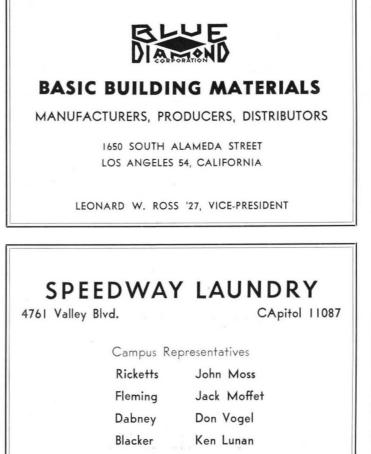
Musical activities are not confined to listening alone. Students with more ambitious aspirations attend faithfully (i.e. when the state of their studies permits) the practices of the Caltech Symphony Orchestra and the Caltech Glee Club, for the fun and experience of playing and singing with other people. These organizations have an annual opportunity to show the rest of the student body what they can do, at one of the Friday assemblies. This year they combined their efforts to present an operetta which a member of the faculty had written, bringing in soloists from outside to round out student talents.

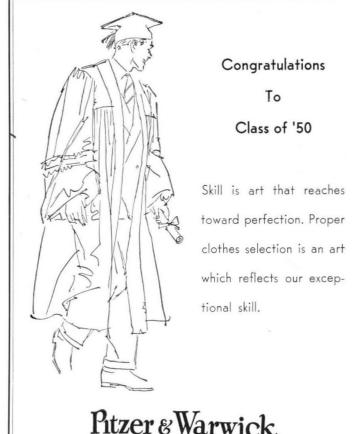
In the student houses, the pianos in the lounges are seldom silent during the few spare minutes before and after meals. Ballads, hillbilly and western songs emanate from rooms all over the houses, to the accompaniment of guitars, ukeleles, and occasional threats from the occupants of the neighboring rooms. Barbershop quartets and other vocal combinations are formed for one-night, all-night performances, or organize more solidly and make an attempt to work up a repertoire. And every now and then one hears wavering strains from a long-neglected violin come floating out of some room from which they have never come before, in which some frustrated virtuoso-turnedengineer is marveling that his technique could have declined so rapidly, and resolving that he will restore its one-time polish with more dilligent practice. In a half hour he puts his instrument back in its dusty case and goes back to his books.

BOOKS

By Professor George R. M. McMinn What are "the literary aspects of culture" at Caltech? What







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can students and faculty find to read, without going off campus, and what DO they read?

Though not breath-takingly stupendous, the Humanities Library in Dabney Hall is richer than one might suppose. Upstairs and down together, it houses some 18,000 books, the largest divisional library at the Institute, better than 25 percent of the total quantity on the premises. Besides a liberal, diversified array of periodicals invites the curious eye and inquiring mind. You can fly high with THE SATURDAY REVIEW OF LITER-ATURE, dive deep with THE JOURNAL OF THE HISTORY OF IDEAS.

How much does Dabney offer to abate the hunger and thirst of the ultra-ambitious? Well, you can find Thomas Mann there in his native German. Waiting to be wakened from long sleep lie the "Loeb Classics," with the Greek or Latin original and the English translation on facing pages. If sheer size and rareness be criteria of interest, let the quester try lifting out the huge four volumes of MONUMENTA CARTOGRAPHICA. The musician need not look beyond this library for the score of Beethoven's Fifth Symphony. And down among the 1300 bound volumes of periodicals lurks the JOURNAL OF THE ROYAL ECONOMIC SOCIETY.

On the common level, the "divine average," what are some of the favorites? Dostoevski and Tolstoy, giants as they are, somehow keep their fascinated following. Maugham's THE RAZOR'S EDGE has had a big day. Freud, of course, is excitedly reached for, soon or late, by nearly every hand. That so foreign fantasy of guilt, Kafka's THE TRIAL, appeals to the initiated. Craven's magnificent TREASURY OF ART MASTER-PIECES, nudes and all, is so popular that it threatens to fall apart.

Perhaps the love of money partly motivates one kind of reading of an annual intensity—that done for the McKinney Prize Contest and the Conger Peace Prize Contest. This year George Orwell's NINETEEN-EIGHTY-FOUR has captured more than the usual number of aspirants for the McKinney honors.

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BEST WISHES TO THE CLASS OF '50

As to the faculty, some of them lead double lives, intellectually. A professor of mathematics delivers a lecture on "Modern Poetry." A professor of chemistry is reputed to be able to interpret Joyce's FINNEGAN'S WAKE. Another chemist is an expert on Browning and Keats; a biologist, an expert on Greek

tragedy; a physicist, an expert on the "metaphysical" poets. To make matters worse—or better?—the Humanities faculty keep on writing books: on "Elizabethan Poetry," California history, Aesthetics, "Existentialism," Business Cycles. Clearly, the whole place teems with "the literary aspects of

culture.'

GAMES

By John Rogers

Although Caltech students must necessarily do a great deal of studying, most of them still find time for relaxation. For many of these people such games as Bridge, Chess, and Go are an important source of amusement. The Caltech mind, however, can never seem to divorce itself completely from a scientific approach, and it therefore organizes tournaments, writes an informative Bridge column in the "California Tech," and tends to view these technical games from a scientific, problem-solving viewpoint.

Of the above three games, Bridge is easily the most popular. The reasons for this probably are that a hand of Bridge can be played in a very short time, and also there are more people involved in plaving a Bridge hand than in playing a game of Chess or Go. The value of these features becomes evident if one realized that much of the time spent on relaxation comes in fifteen minute intervals before and after meals. Since the popularity of Bridge is universal, a weekly column is written by Carl Fox in the "California Tech"; each column usually discusses one rather interesting hand and gives many valuable hints to the many Bridge players on the campus. During the first and second terms Bridge tournaments are held every other

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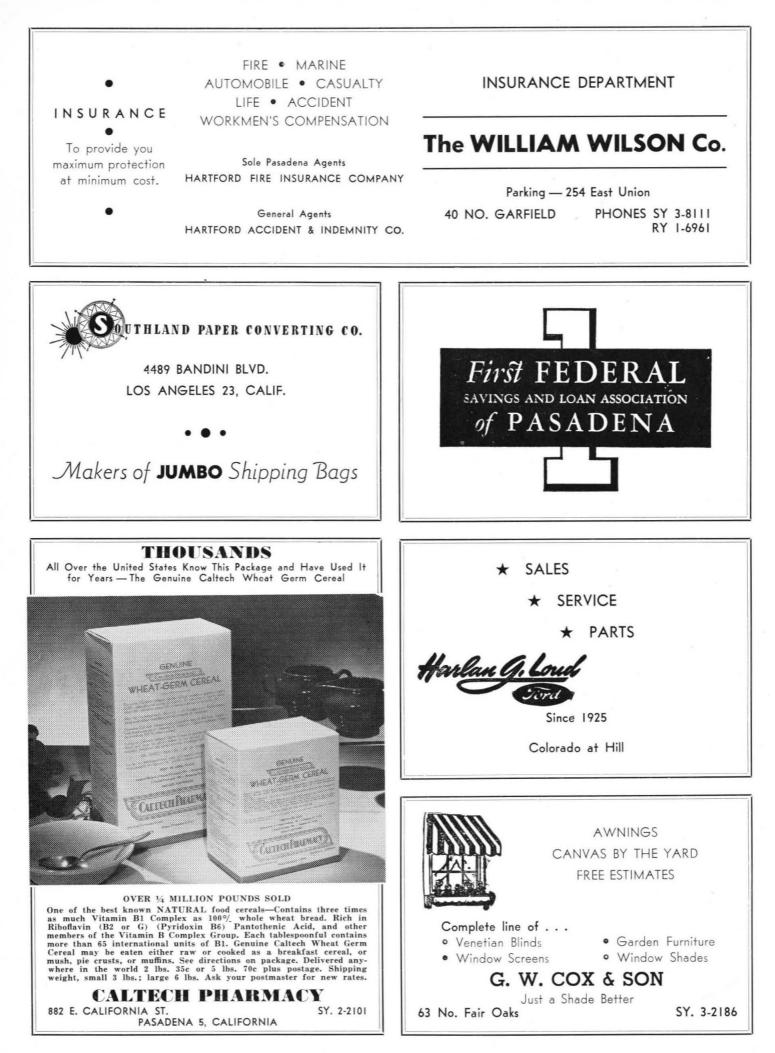
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week in one of the student house dining rooms; they are directed by a student appointed by the inter-house committee. The four teams making the best over-all scores—added importance being given to the results on certain specially made up hands—play in the National Intercollegiate Bridge Tournament held toward the end of the second term.

Chess is not so adequately represented on the campus. Tournaments are occasionally held and generally draw five to ten contestants. But what Chess suffers from scarcity of players, it regains in the extreme fascination shown for the game by those who play regularly. The time spent on each game (usually an hour or more), indicates that Chess is certainly able to maintain interest for a long time.

The game of Go has probably not been heard of by many Caltech students. It is played by placing small discs on the intersections of lines; these intersections are formed by drawing nineteen lines parallel to the sides of a square board. The discs may be placed anywhere on the board, remembering that if a group of them is cut off from contact with any open space, it is removed from the board. The object of the game is to acquire as much of the board as possible in such a manner that your opponent cannot enter the area without eventually losing all his discs that he has placed there. The player with the most area wins. The game is very easy to learn but is difficult to play well. It is said that promotions in the Japanese army used to be given on the basis of proficiency in Go. At Tech there are a rapidly increasing number of players that are very interested in the game; in the third term of this year a tournament is being sponsored by Don Shepard in Dabney.

The reaction of many people to some or all of these three games' is that they merely consume time without showing any direct profit. Beyond, however, the value of brief relaxation enabling a person to spend more profitably the time alotted to study—such games as Bridge, Chess, and Go serve as a pleasant means of whetting the mental appetite. The far sighted planning of Chess and Go and the calculations involved in the care-

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ful play of a Bridge hand might be undertaken by even the most confirmed Snake without fear of losing that vital, scientific outlook even for an instant. Most players, however, disapprove of such an objective reason for playing any of the above games, and they merely say, "I play these games because I enjoy them." But no matter what reason is given, Bridge, Chess and Go certainly are an important phase of Caltech culture.



ART By Don Shepard

Art does not play as large a part as music as a campus avocation; however, there is scarcely an alley in the student houses in which an artist (albeit only Petty) has not lent his brush to the decoration of at least one of the rooms. The photographs on this page show samples from three such rooms. The reproduction of the Cardinal's Portrait (upper left) is one of the pictures offered at moderate prices to students at a showing in the student houses this November.

On campus outside the houses touches of art may also be found. The Gates office boasts a collection of woodcuts and etchings including an original Jean Charlot loaned by Mrs. Pauling. The Treasure Room of Dabney Hall showed an exhibit this year of Western oils by C. Kern Fiedler as well as the annually shown display of fine Western printing by Rounce and Coffin. Plans are being discussed to resume the pre-war sched-

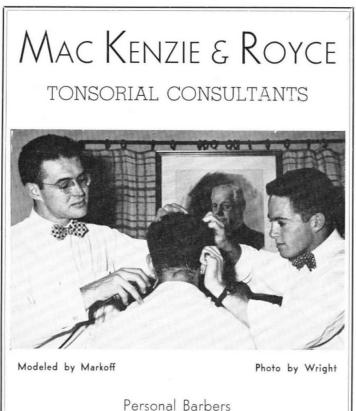


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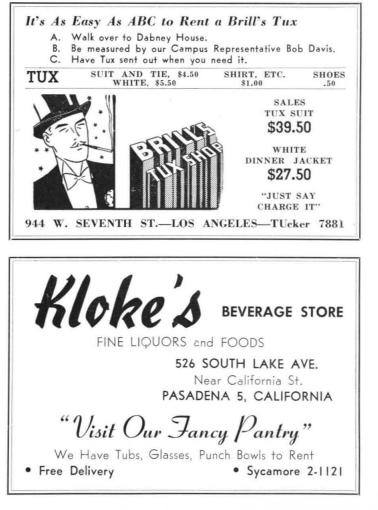


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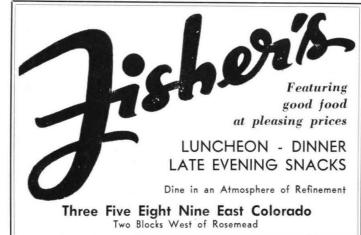
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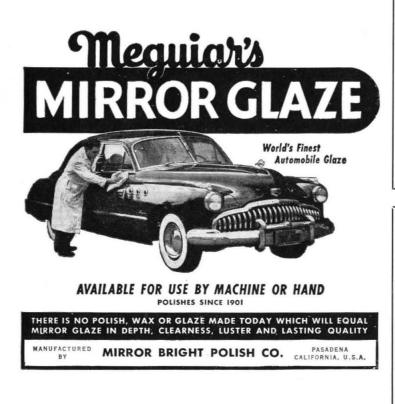
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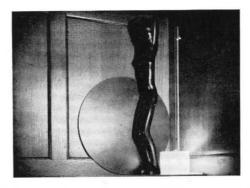
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ule of frequent exhibits if a budget can be obtained to hire a student guard to protect them.

New to the campus this year is the New York Museum of Modern Art program of film classics shown by Dr. Ballard every other Sunday and Monday night in Culbertson. Old silent films, experiments in surrealism and abstraction, propaganda epics, and pictures which are milestones in the development of film technique are being shown to students and faculty lucky enough to get tickets for one of the two performances.

The Beaver's interest in art is usually appreciative rather than creative. His opportunity for appreciation is wide, however, with the Huntington Library only blocks away, and continual art exhibits being given at Scripps which he may visit if he happens to be in Claremont for any reason. If he is a downright capitalist he may even dig deep for three dollars and become a patron of the Pasadena Art Institute.



For the fine portraiture of the Seniors and house members we thank the

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