

—619—

FOREWORD

To present and preserve the glories, achievements, and memories of a year at Tech has been the goal of the staff.

It is hoped that this volume will be not only a living journal of the student's undergraduate college years, but also a useful and compact guide to the many facets of life on the campus for those serving Caltech at the present.

The Editors wish to express their sincerest appreciation to the entire staff, without whose conscientious and cooperative assistance this yearbook would not have been possible.

'51

Big

John Bopper

Bernard Engholm



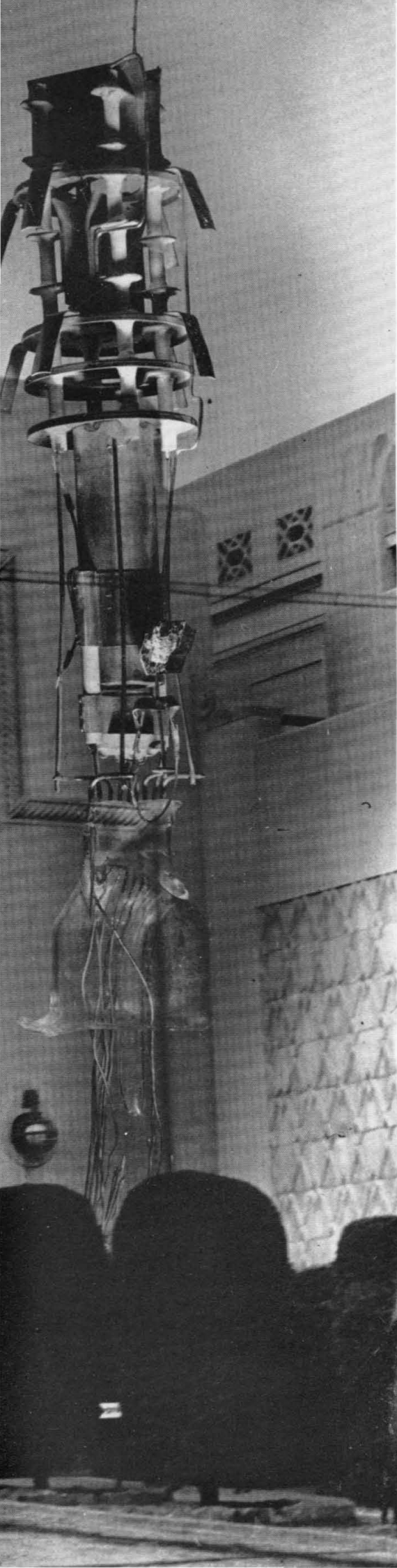




In Memoriam
Chester Stock

$$W = \frac{1}{2} \int \bar{\mathbf{B}} \cdot \bar{\mathbf{H}} d\mathbf{v}$$





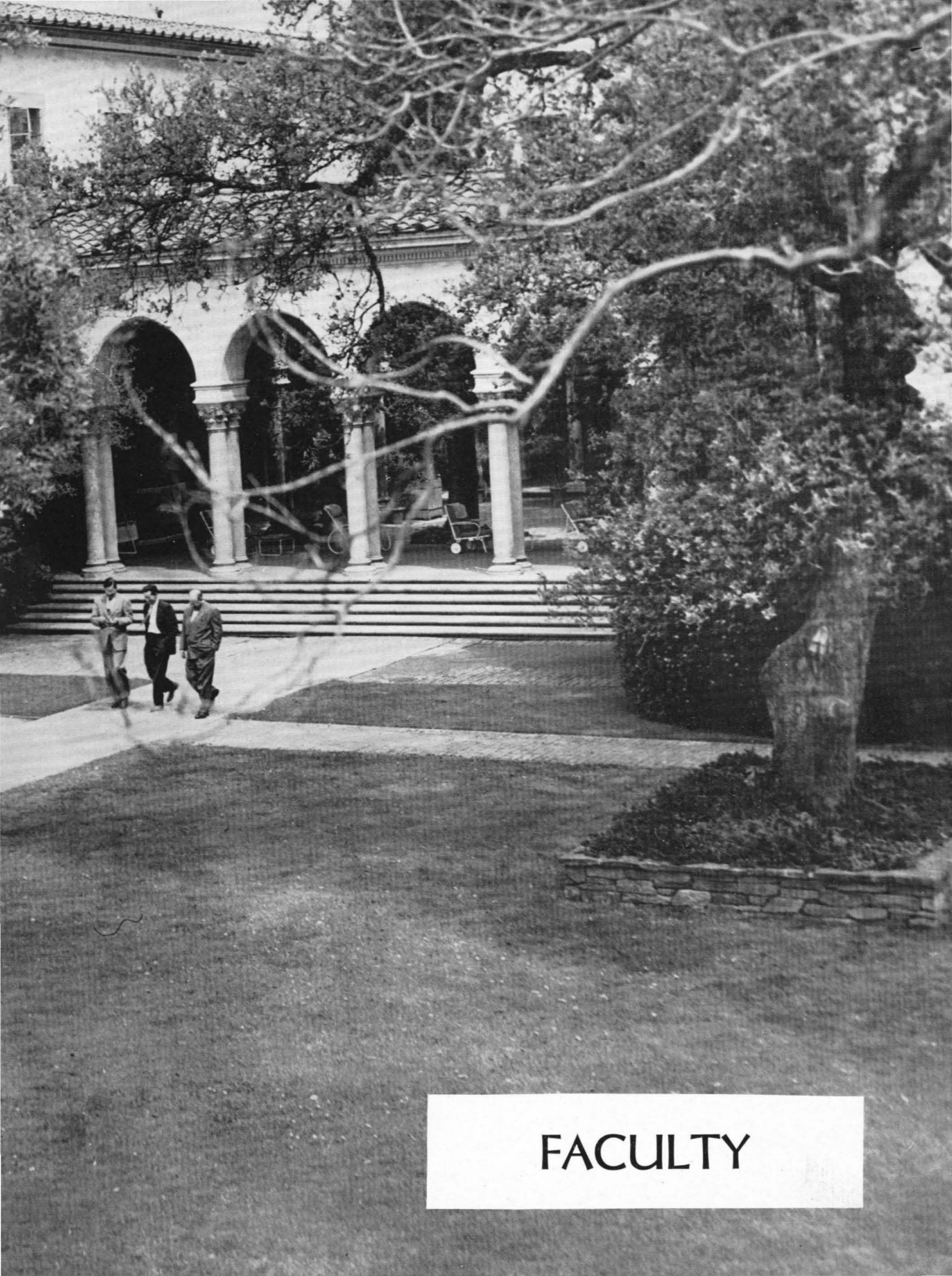
CONTENTS

Faculty	- - - - -	page eight
Seniors	- - - - -	page twenty-four
Activities	- - - - -	page fifty-eight
Sports	- - - - -	page ninety
Houses	- - - - -	page one twenty-eight
Contacts	- - - - -	page one sixty-eight

STAFF

Co-Editors	- - - - -	John Boppart Barney Engholm
Managing Editor	- - - - -	Budd LeTourneau
Photographic Editor	- - - - -	Bob Parnes
Faculty Editor	- - - - -	Carl Larson
Senior Editor	- - - - -	Don Schmid
Activities Editor	- - - - -	Bill Whitney
Sports Editor	- - - - -	Perry Vartanian
House Editor	- - - - -	Phil Orville
Business Manager	- - - - -	Dick White





FACULTY

BOARD OF TRUSTEES



Front row: BEN R. MEYER, ROBERT A. MILLIKAN, JAMES R. PAGE, WILLIAM B. MUNRO, HARVEY S. MUDD, WILLIAM C. McDUFFIE

Second row: GEORGE E. FARRAND, HARRY J. VOLK, ELBRIDGE H. STUART, JOHN O'MELVENY, LEONARD S. LYON, EDWARD C. BARRETT

Top row: LEE A. DuBRIDGE, P. G. WINNETT, ROBERT W. MILLER, NORMAN CHANDLER, J. G. BOSWELL, EDWARD R. VALENTINE, HERBERT HOOVER, JR.



L. A. DubBridge

The Student-Faculty Relations Committee is a group composed of ASCIT officers, house and class presidents, Board of Control representatives, editors of the student publications, and representatives of the Institute and the faculty. The Committee functions as a sounding board for matters of common interest to the two groups, and seeks to promote mutual understanding and cooperation in dealing with such problems as arise. Led by Chairman Harvey Eagleson, the committee has in the past year dealt with such questions as the use of libraries after hours, the regulation of unauthorized keys, the relationship of the Board of Control to the student houses, faculty inspection of graduate instructors, and the disposal of cars abandoned in Tournament Park.



HARVEY EAGLESON

STUDENT - FACULTY RELATIONS

Standing: CLARK, THOMAS, SHREVE, PINGS, BOPPART, MILLER, LANG, ZENTNER

Sitting: HANNA, GRONER, ROSS, HERSHEY, EAGLESON, JONES, HEFNER, FEE, STEESE, KURLAND, STRONG, EATON, MERTON, RYBURY, LOURIE, RICHTER

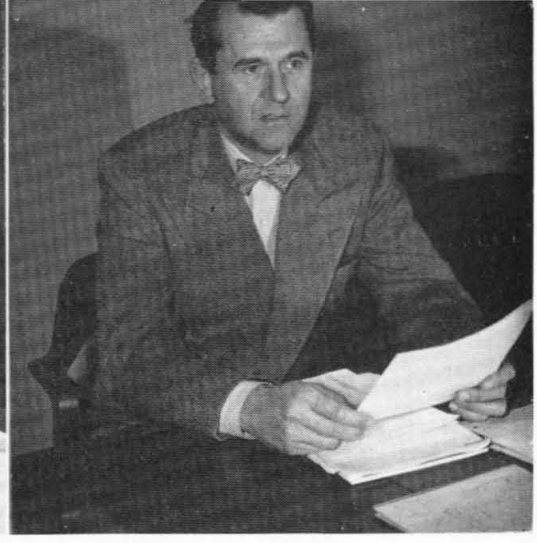




GEORGE W. BEADLE
Biology



LINUS PAULING
Chemistry



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



CHESTER STOCK
Geology



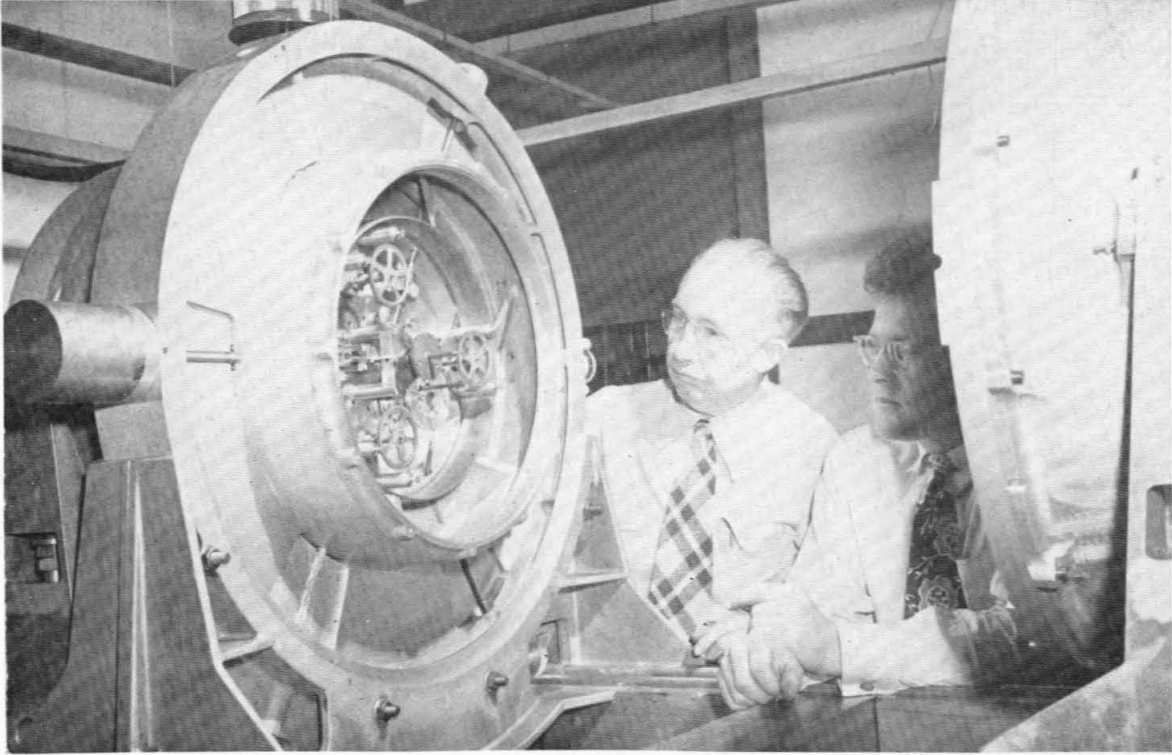
HALLETT D. SMITH
Humanities



ROBERT F. BACHER
Physics, Mathematics
and Astronomy

D
E
P
A
R
T
M
E
N
T
H
E
A
D
S

P
H
Y
S
I
C
S

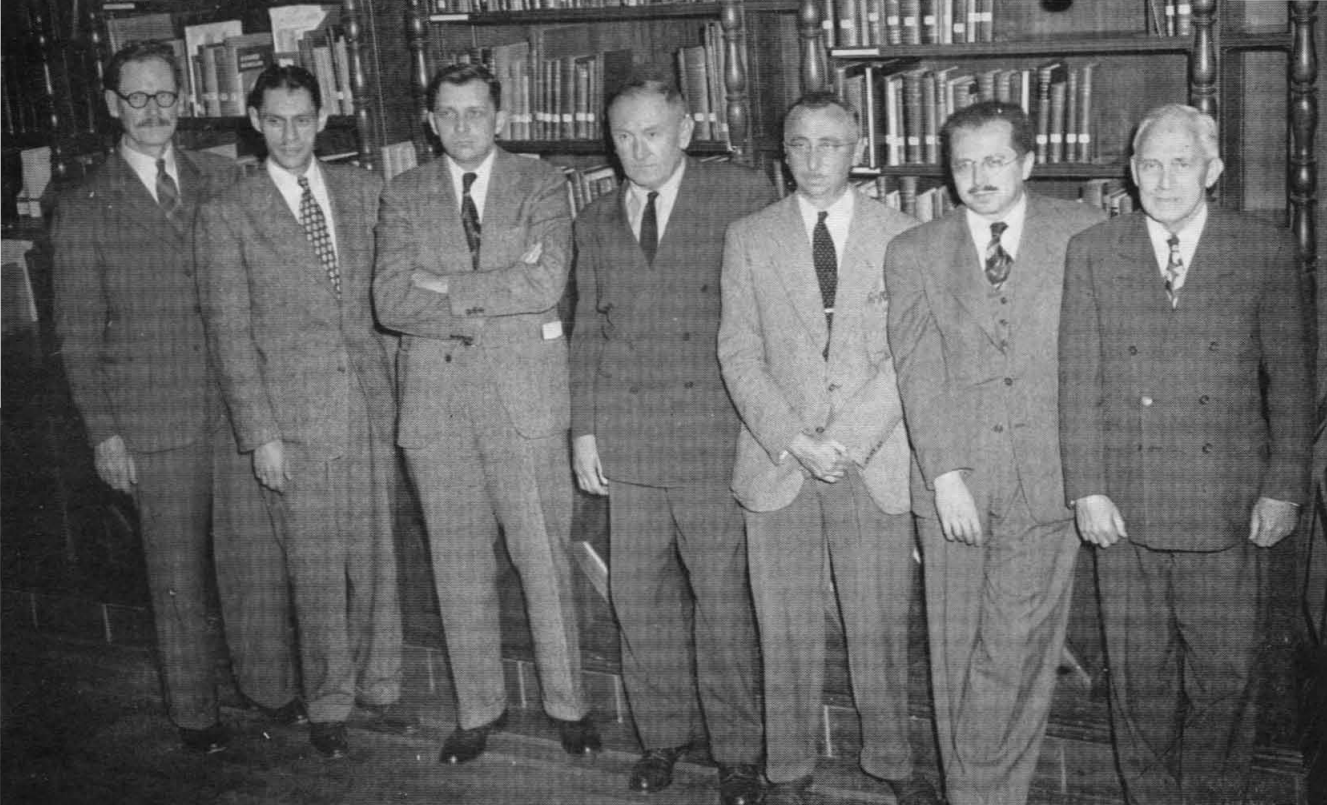


Dr. Jesse DuMond and assistant James Wilts observing the only Axial Focusing Magnetic Beta-Ray Spectrometer with a Homogeneous Field.

LEVERETT DAVIS JR., ROBERT F. BACHER, THOMAS LAURITSEN, R. F. CHRISTY, ROBERT B. KING, CHARLES C. LAURITSEN, WILLIAM R. SMYTHE, WILLIAM A. FOWLER



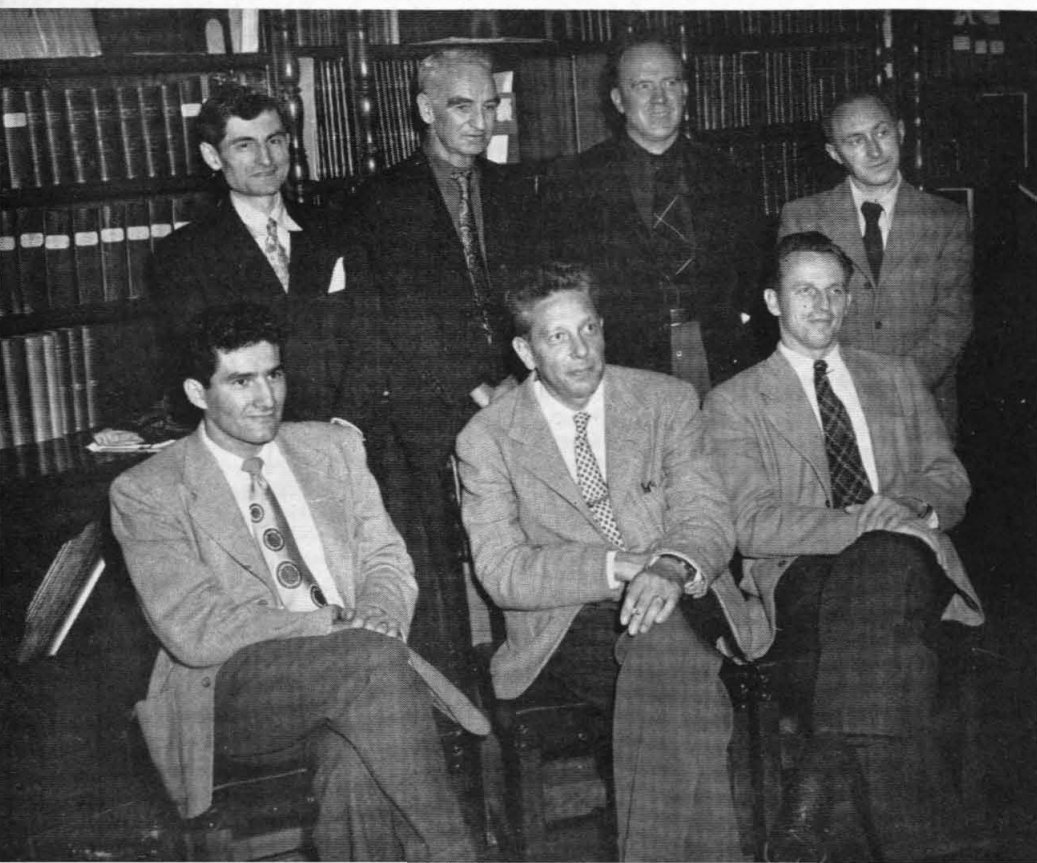
A S T R O



THOMAS G. COWLING, A. J. DEUTSCH, ALBERT G. WILSON, FRITZ ZWICKY, P. SWINGS, JESSE L. GREENSTEIN, ALFRED H. JOY

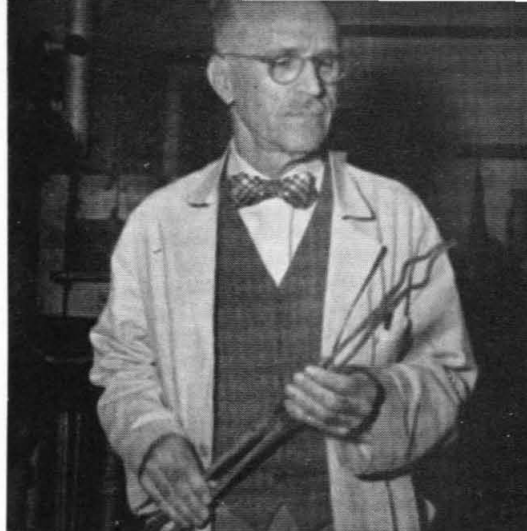
Seated: T. M. APOSTOL, H. F. BOHNENBLUST, ROBERT P. DILWORTH

Standing: ARISTOTLE D. MICHAL, ERIC T. BELL, MORGAN WARD, A. ERDELYI



M A T H

C
H
E
M
I
S
T
R
Y

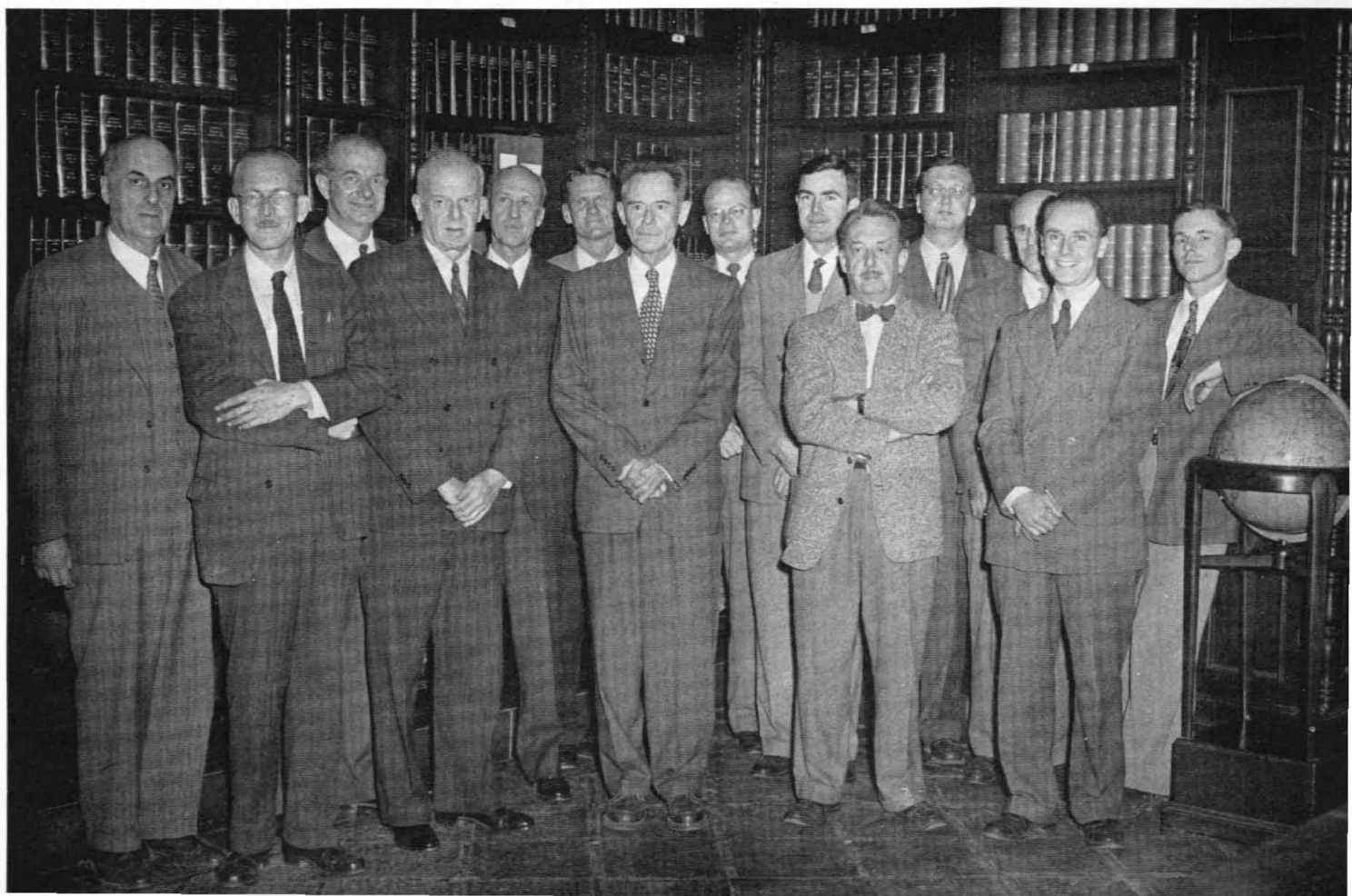


ERNEST H. SWIFT

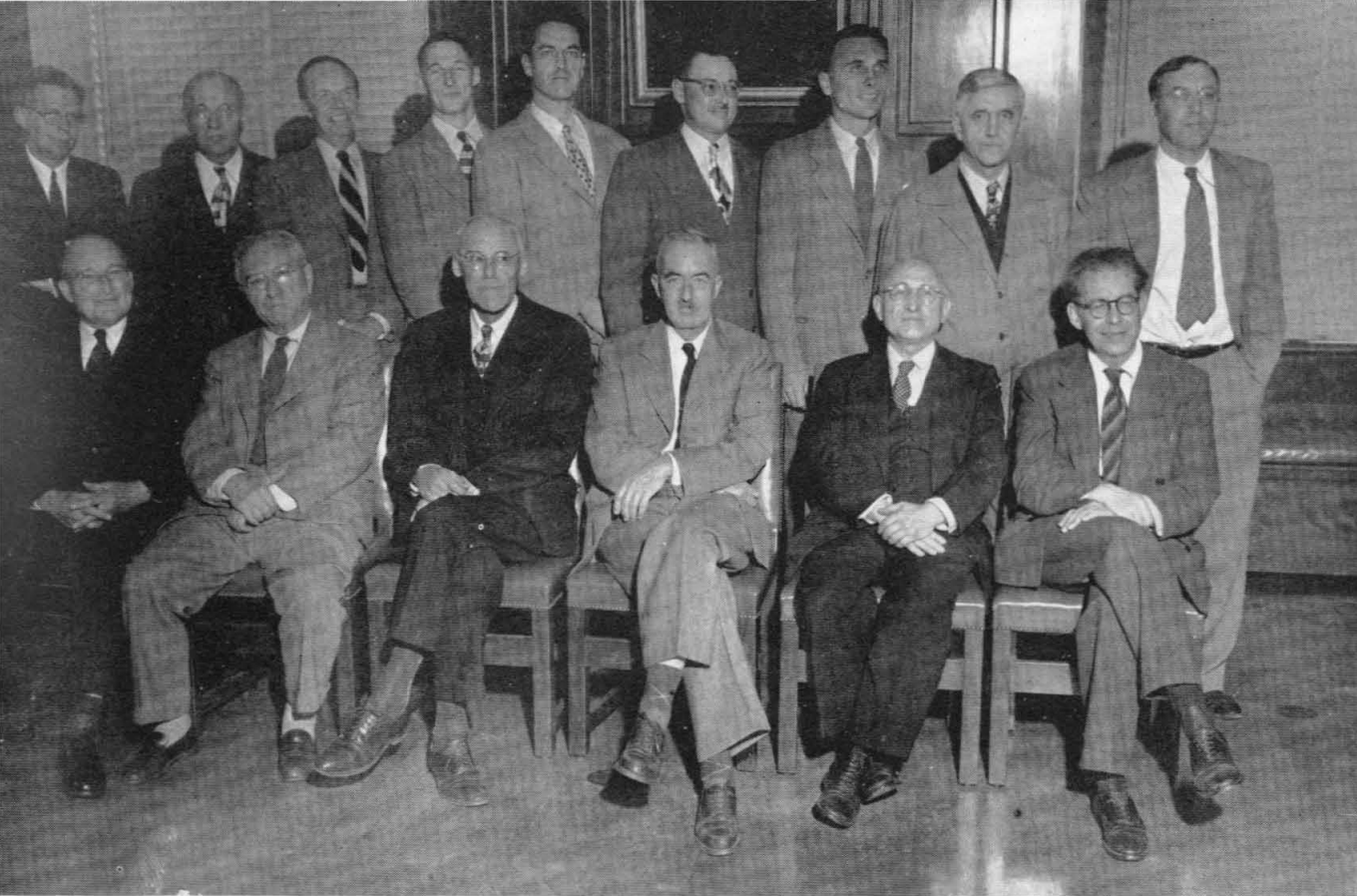


NORMAN DAVIDSON

LASZLO ZECHMEISTER, RICHARD M. BADGER, LINUS PAULING, STUART J. BATES, WILLIAM N. LACEY, DAVID M. MASON, OLIVER R. WULF, BRYCE L. CRAWFORD, VERNER F. SCHOMAKER, DAN H. CAMPBELL, WALTER A. SCHROEDER, ERNEST H. SWIFT, NORMAN DAVIDSON, DAVID P. SHOEMAKER



BIOLOGY



Sitting: HENRY BORSOOK, GEOFFREY L. KEIGHLEY, GEORGE W. BEADLE, JEAN J. WEIGLE, NORMAN H. HOROWITZ, JAMES F. BONNER

Center: RENATO DULBECCO, EDWARD B. LEWIS, ALBERT E. LONGLEY, JACOB W. DUBNOFF, CHARLES E. BRADLEY, ALBERT TYLER

Back: RAY D. OWEN, STERLING EMERSON, HERSCHEL K. MITCHELL, ERNEST G. ANDERSON, ALFRED H. STURTEVANT, CORNELIUS A. G. WIER S.M.A., ANTHONIE VAN HARREVELD

GEOLOGY

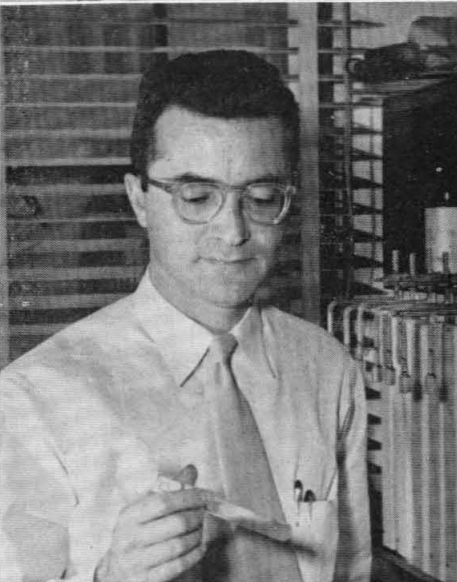
Sitting: CLINTON R. STAUFFER, DONNEL F. HEWETT, JOHN P. BUWALDA, IAN CAMPBELL, BENO GUTENBERG, CHARLES F. RICHTER

Standing: CHARLES H. DIX, MERLE C. NOBLE, LLOYD C. PRAY, DAVID WILLOUGHBY, RICHARD H. JAHNS, ALBERT E. ENGEL, GENNADY W. POTAPENKO, CHARLES W. MERRIAM

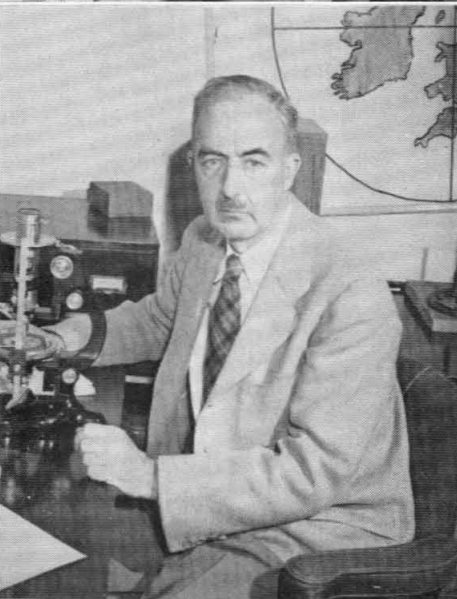




HENRY BORSOOK



NORMAN H. HOROWITZ



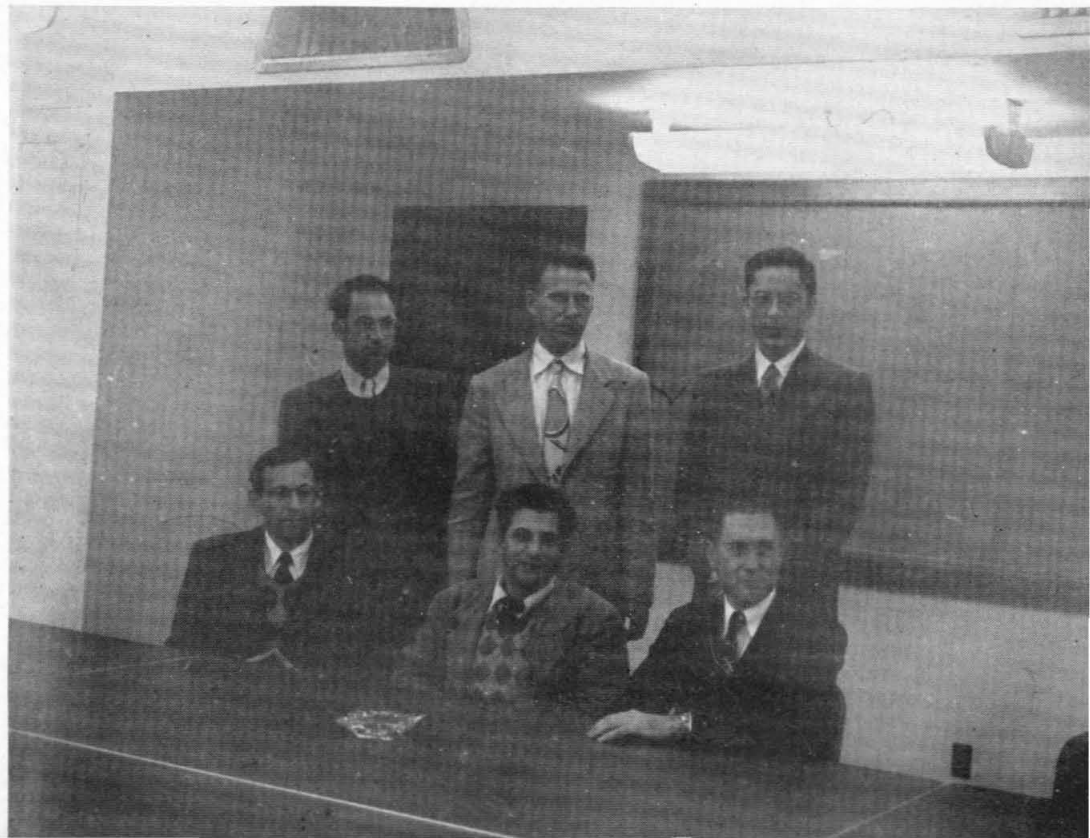
IAN CAMPBELL



ROBERT P. SHARP

A P P L I E D M E C H A N I C S

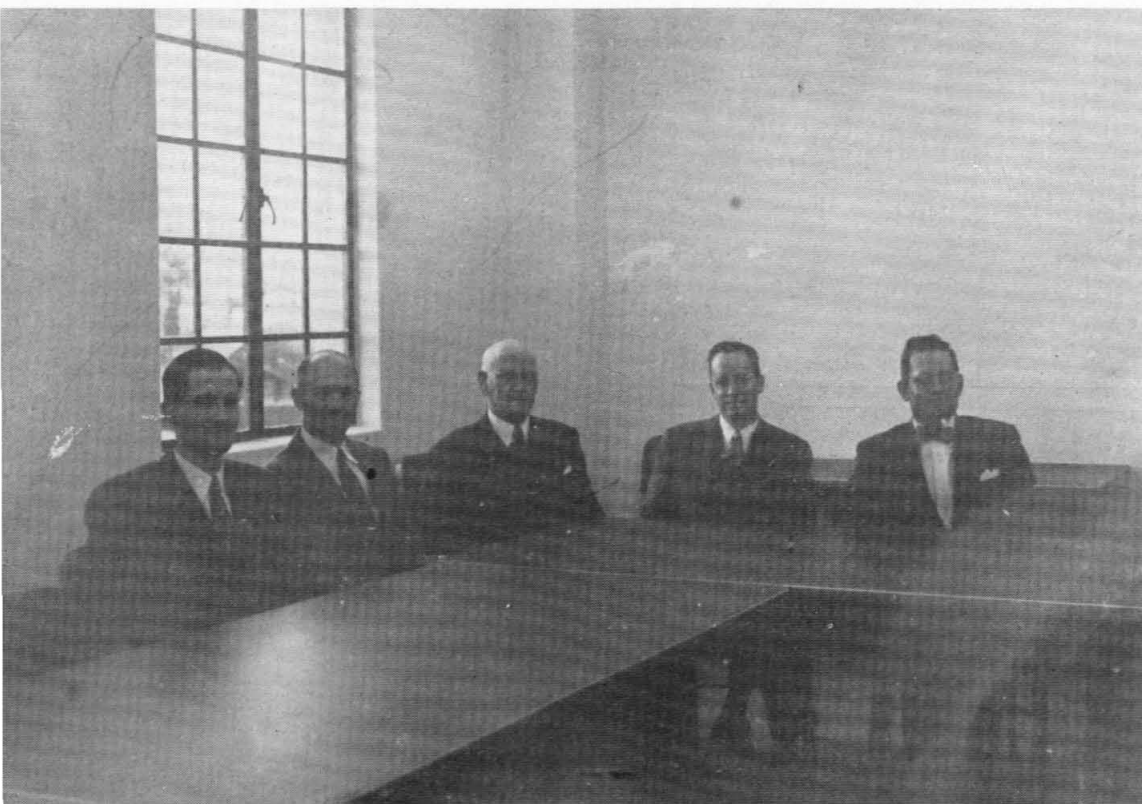
Standing: STANLEY P. FRANKEL, CHARLES H. WILTS, GEORGE W. HOUSNER
Seated: MILTON S. PLESSET, CHARLES R. DePRIMA, J. HAROLD WAYLAND





GILBERT D. McCANN, FRANCIS W. MAXSTADT, S. S. MACKEOWN, M. H. NICHOLS,
ROYAL W. SORENSEN, RICHARD H. MacNEAL

CALEB W. McCORMICK, JR., FREDERICK J. CONVERSE, FRANKLIN THOMAS, JACK E.
McKEE, VITO A. VANONI



E
L
E
C
T
R
I
C
A
L

C
I
V
I
L

E
N
G
I
N
E
E
R
I
N
G

M
E
C
H
A
N
I
C
A
L



Seated: DONALD E. HUDSON, WILBUR R. VARNEY, ROBERT L. DAUGHERTY, ALADAR HOLLANDER, DONALD S. CLARK

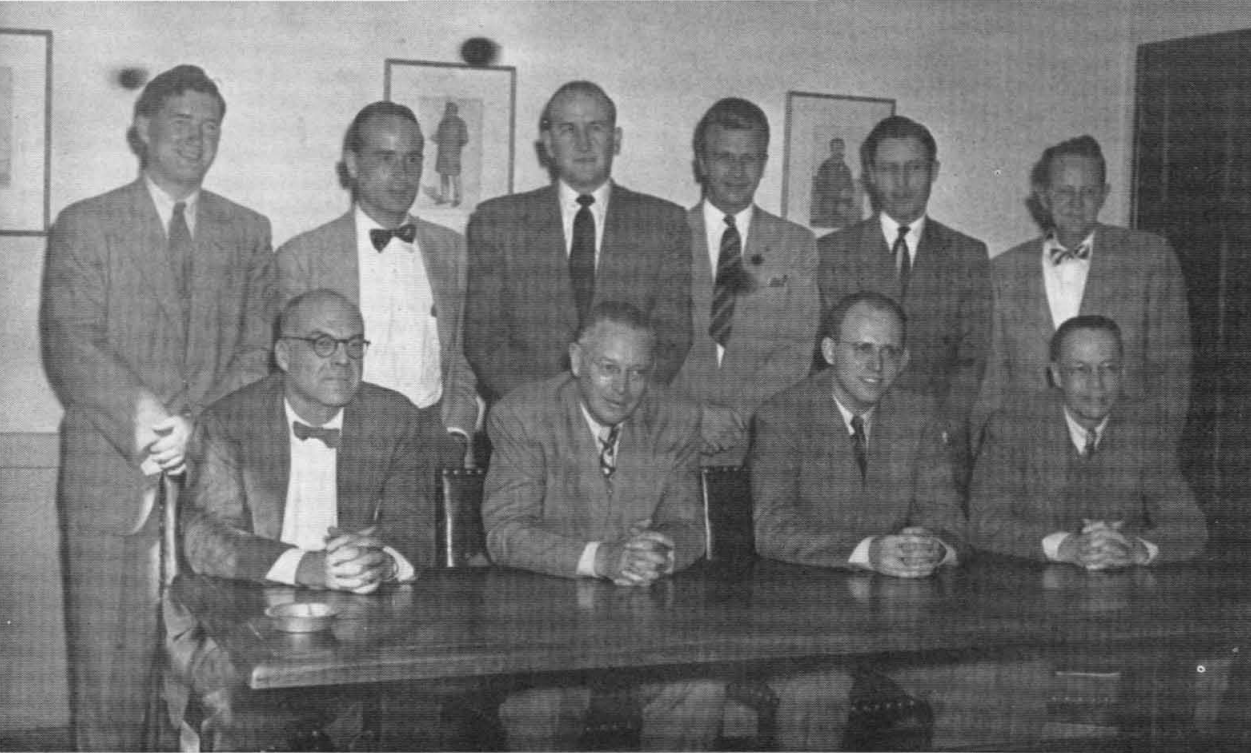
Standing: DAVID S. WOOD, DINO A. MORELLI, PETER R. KYROPOULOS, W. DUNCAN RANNIE, ROLF H. SABERSKY, HOWELL N. TYSON, POL DUWEZ



DONALD S. CLARK



PETER R. KYROPOULOS



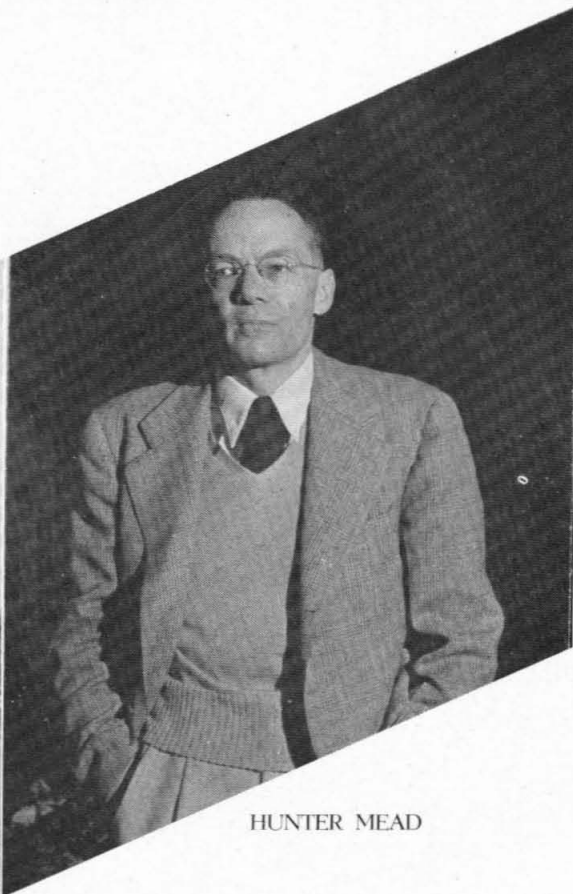
Seated: HARVEY EAGLESON, RAY E. UNTEREINER, JOHN A. SCHUTZ, HUNTER MEAD

Standing: HEINZ E. ELLERSIECK, DAVID C. ELLIOT, MELVIN BROCKIE, WILLIAM C. KINARD, R. MATHERS, ROGER STANTON

HUMANITIES



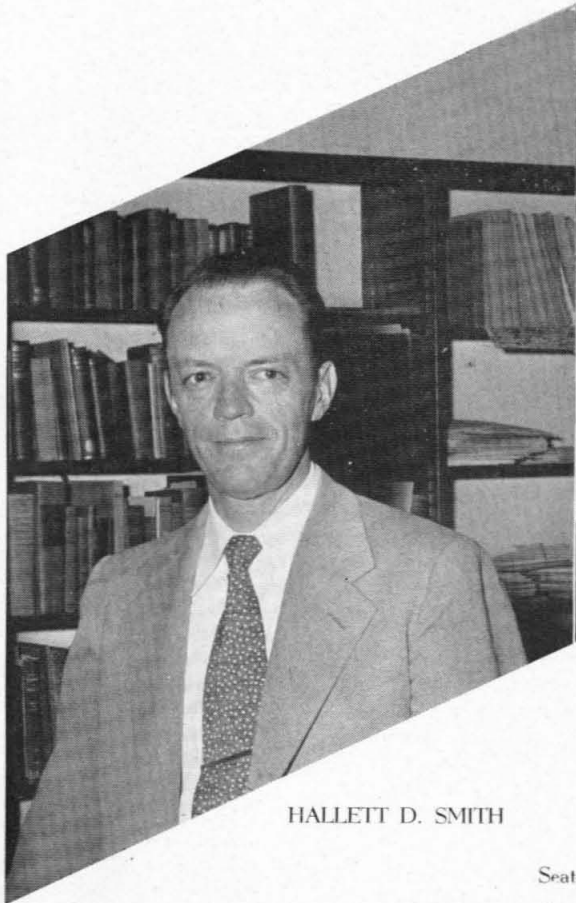
ROGER STANTON



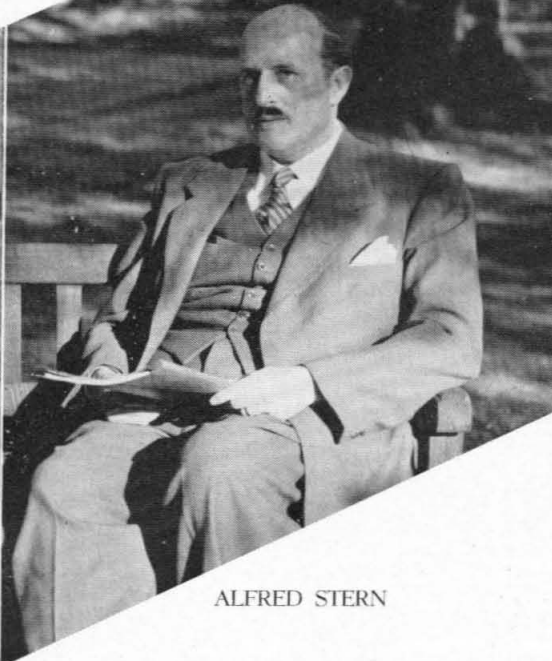
HUNTER MEAD



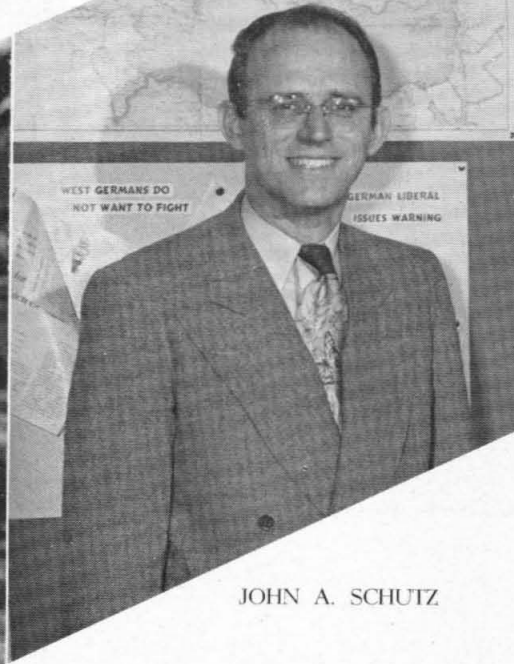
ROBERT D. GRAY



HALLETT D. SMITH



ALFRED STERN



JOHN A. SCHUTZ

Seated: WILLIAM HUSE, PAUL C. EATON, J. KENT CLARK, GEORGE R. MacMINN

Standing: GEORGE K. TANHAM, LESTER L. McCRERY, BEACH LANGSTON, PAUL BOWERMAN, RODMAN W. PAUL







SENIORS



ROBERT COBB—SECRETARY



ROBERT MUNRO—TREASURER



SENIOR CLASS

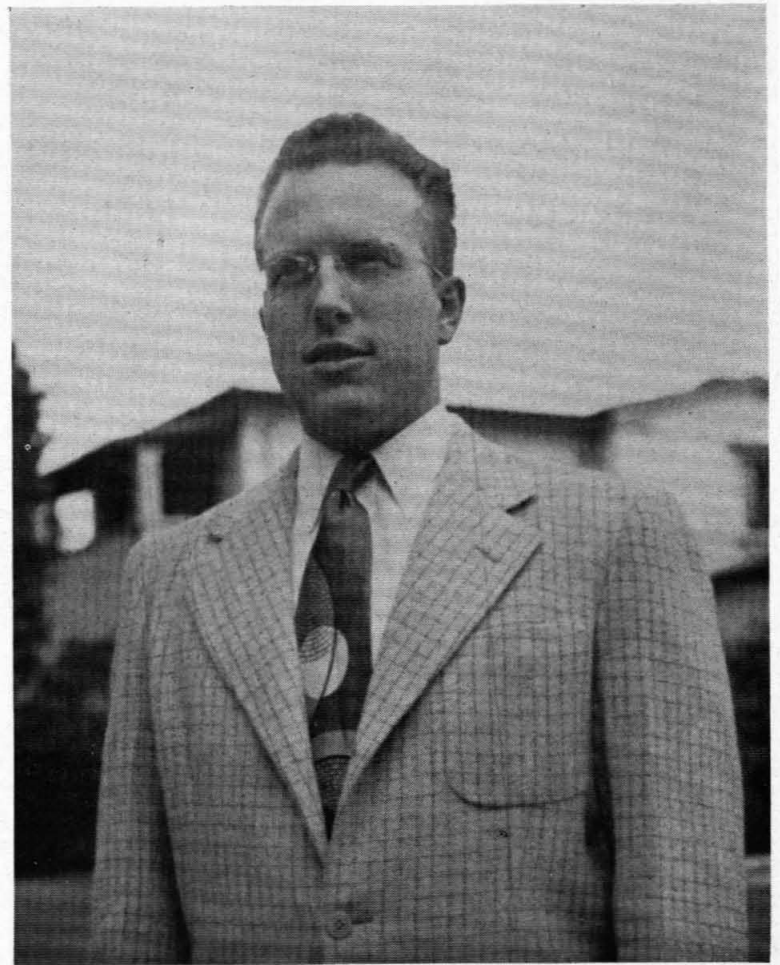
The class of 1951 was the first after the last war to be composed mostly of non-veterans and was thus much younger than the previous ones. Frosh camp, initiation, and the Frosh-Soph Mudeo soon fixed that. Before long, they too were hardened in the old routine.

At the end of the Frosh year, only about 140 of the original 175 were still around, the others having left for greener pastures definitely elsewhere. In succeeding years, several more have done likewise but were replaced by some very able men. This turnover did not interfere with the normal activities of the senior year; they were just as hectic and produced fully as many gray hairs as those of former years.

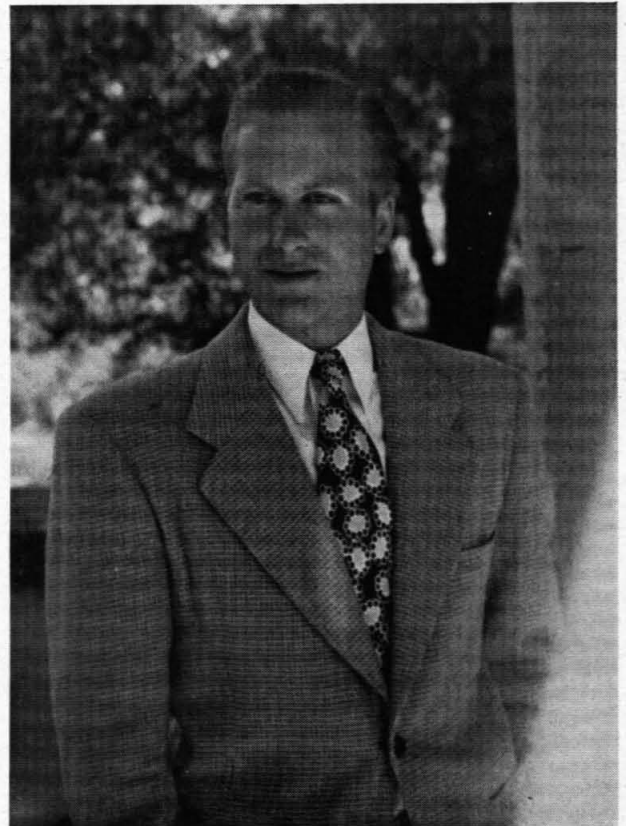
Ditch Day, to everyone's complete surprise, occurred in the middle of the third term. It is rumored that one could have floated a rowboat in the beer provided at the beach but the fellows selfishly decided to drink up the refreshments instead. What little was left was not for long as the festivities were transferred to Mountain Oaks, certainly with no loss in the high spirits of the day.

In May, there came the Garden Party at which time the veterans of four hard years had a chance to meet the faculty under much more auspicious circumstances. Dancing and general chatter lent themselves to a very delightful afternoon. The annual Junior-Senior Prom was held this year at the Oakmont Country Club to the smooth rhythms of Ivan Scott's music. Through the blackness, there could be seen some mighty happy alumni, well accompanied and uninhibited.

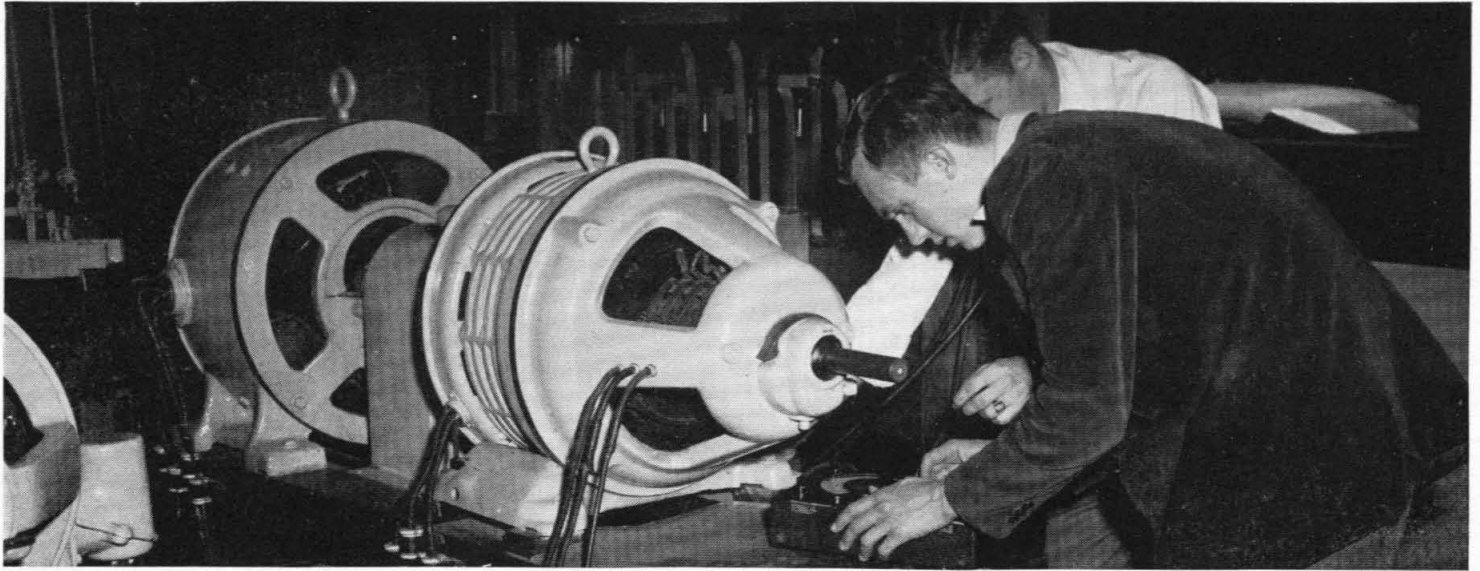
Jobs were plentiful; some with Uncle Sam were well-nigh inescapable. Here's hoping for the best of luck for the class of 1951.



JOHN FEE—PRESIDENT



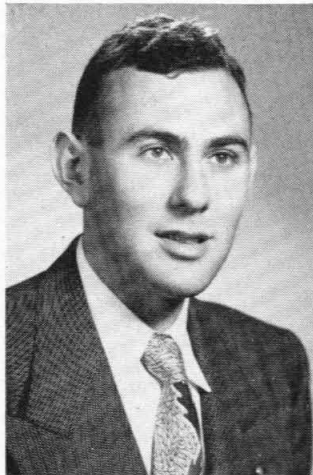
RAY GREUTERT—VICE-PRESIDENT



ELECTRICAL

MICHAEL BASIN

TBP: Mike, who is from Los Angeles, lists "girls" as a pre-Caltech activity. How dull! At Tech Mike has been a member of the AIEE and Throop club. He has also extended his interests to electrical machinery and deep sea fishing. Mike wants to go to graduate school here at Tech (why not Scripps in view of his peculiar interests?) to obtain a Ph.D. in EE.



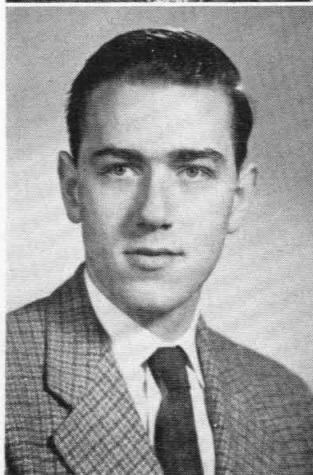
RODNEY BUNKER

Hailing from Porterville, California, Rod transferred to Tech as a sophomore. Found time from the nightly grind to play football for Throop and become a member of the AIEE. Has hopes for graduate school or failing this, a short hitch in the Navy.



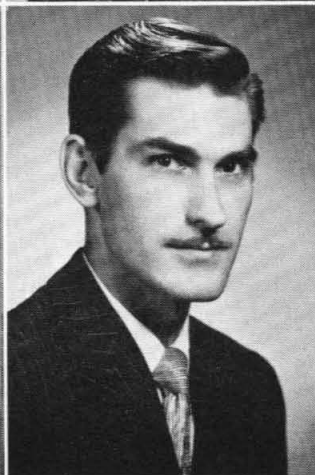
RICHARD BEMIS

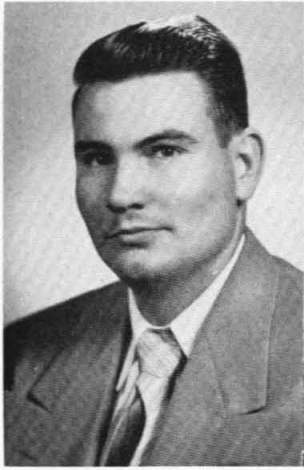
TBP: A native of Oakdale, New York, Richard names electronics, boating, and photography as major interests. A member of the Radio Club, he can also be seen around Throop Club every so often. For the future, he plans either grad work here at Tech, a job with North American or NOTC, or will take any other good opportunity which presents itself.



DANIEL E. CARNEY

After a hitch in the Navy, Dan was beckoned to CIT from San Bernardino JC. He spends much of his time commuting from Colton where he resides with his wife and daughter. After graduate work, Dan plans to enter the teaching profession.





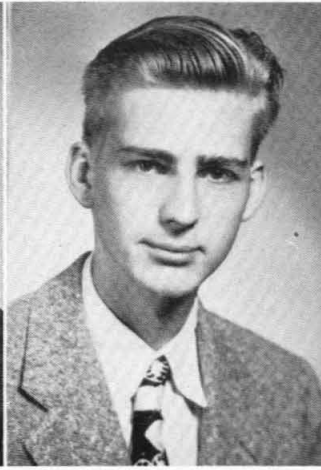
BERT HYLAND CLARK

The V-12 program at CIT during the war gave Bert his start here and after three years as an ETM in the Navy he lost his desire for travel and came back to his home state to finish his schooling here at Tech. To get a job and retire young are his plans for the future.



THOMAS CONNOLLY

From Havre, Montana by way of the "Glorious 45th" division of Uncle Sam's Army, Tom has made the halls of Dabney resound with rhythmic melody as a member of the first "one piano, eighty-eight keys, and forty fingers make it easy" quartet. Besides soloing on the drums, he has burned the midnight oil as a member of the staff of the California Tech. Grad school beckons after CIT.



EDWARD F. DAVIS

TBPi
"Big Ed" started at Tech in '46, but after a short all-expense tour of Japan at the request of his draft board he returned to these hallowed halls. An inhabitant of Eagle Rock, he moved into Blacker in his Junior year. The fact that he is a member of AIEE and secretary of IRE betrays that he's one of that select group, the EE's. Plans seem to include the usual alternative of study at Tech or enlisting in the Air Force.



ROBERT W. DeGRASSE

The clue on Bob can be given by the letters W7LCV/Mobile, cryptic to any except a fellow ham operator, who would know instantly that he is from the Pacific Northwest. Yakima, Washington is the exact place. Listing AIEE, IRE, President of Radio Club, Ski Club, band, orchestra, and work on the "Tech" as activities, Bob shows the usual EE's ability to get in on the fun. He plans grad work if not taken by the Army.

ENGINEERING

JOHN W. DYER

Jack came to Tech directly from his home town school, Santa Maria Union High. A member of the AIEE, he was also concerned with House activities, having served as Treasurer, UCC, and member of the Social Committee. What he does in the future seems to depend a lot on Ol' Unk Sam.

FRANKLIN GOODMAN

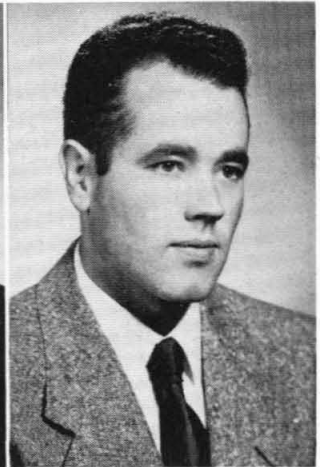
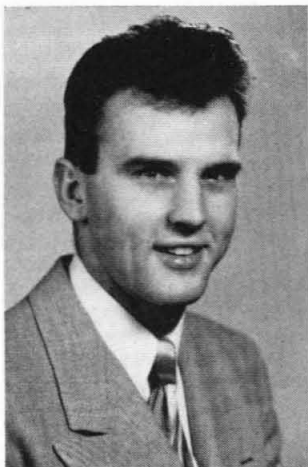
TBPi
Frank, who comes from La Crescenta, is well on the way to providing himself with a secure and comfortable old age, having three children to date. A former navy man, Frank is active in his church and on campus has been president of the Caltech Christian Fellowship. He plans either to continue his present job on a fulltime basis, or else go on to graduate school.

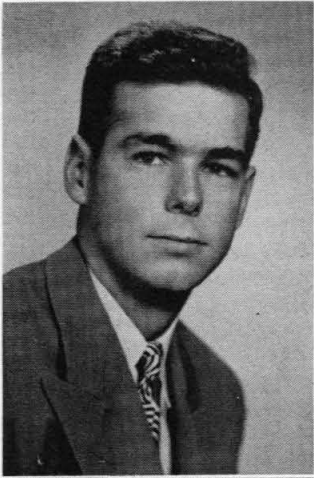
PHILLIP HALVERSON

Phillip Halverson, prime cog, hails from smog-besieged L.A. He's been active in his house: UCC real keen, they say; Social chairman for the troops; Foreman in the Student Shop; Ricketts crew and flamer man; Double E that's hard to top. Gaze into his crystal sphere: UMT his greatest fear.

ALBERT S. JACKSON

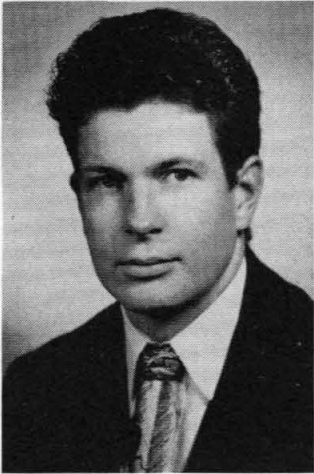
TBPi
Al is from Sylvia, Kansas. However, he has been away from home a long time for he spent half a year at Glendale College, one and one-half years in the Navy as a motor machinist, and two years at Muir before coming to Tech. At Tech, he has been a member of the AIEE, IRE, soccer team, and the staff of the very great "California Tech." He plans to go on for an M.S. degree and then return to USNOTS at Inyokern if the Naval Reserve doesn't find him first.





HOWARD B. LEWIS

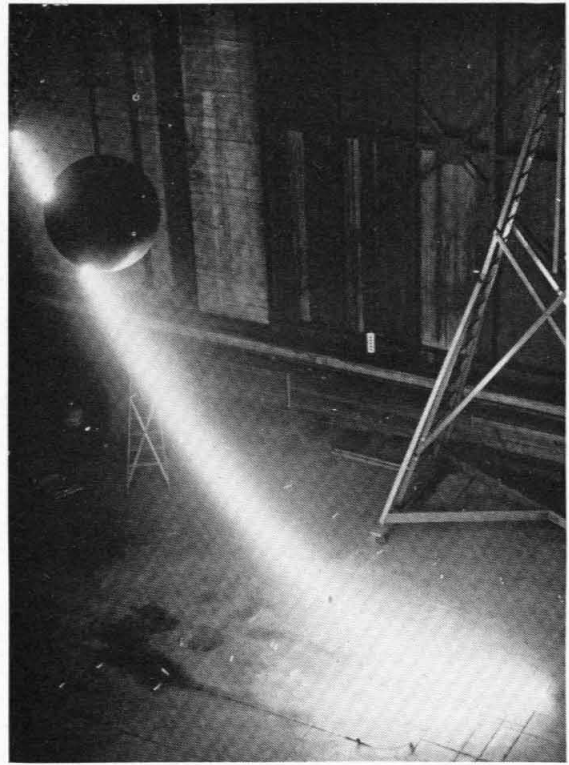
Howie claims the distinction of being the only undergraduate member of the Alumni Association. Earning a B.S. in ME in '48, he decided that electricity was here to stay and is now slaving towards an EE degree. Has been active in house sports and expresses a decided, if in our opinion, somewhat futile interest in Stanford women. Four hundred miles is a long way for a date.



JIM McQUISTON

TBPi

This lanky Angeleno boasts a record collection ranging from Bach to Brubeck. Queries as to "where's Jim?" were directed to the local folk dancing establishments where he was wont to do the Neopolitan Tarantella. Jim spent the rest of his spare time playing volleyball for Dabney, acting as UCC, and cataloging for the Tau Betes.



RICHARD S. PARDEE

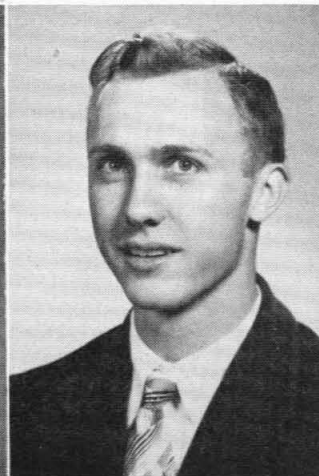
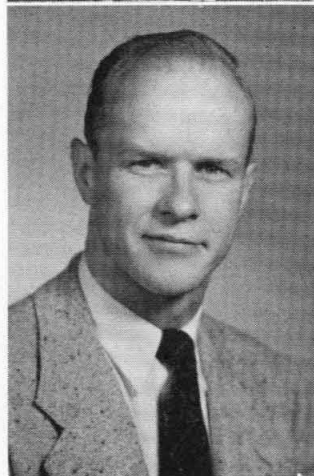
T³, TBPi

Steve is the quiet, bashful, all-American kid from Indianapolis. At Tech he has been active in interhouse and varsity sports, playing varsity golf for three years. Other activities include student chairmanship of the AIEE and a famous pre-marital stag. Steve plans graduate school at Tech or M.I.T.

NOEL E. REED

T³, HONOR KEY

After some indeterminate time in the Navy as a radio technician and a year at Muir, Noel decided that Tech was a good place to rest. Three letters in football and the co-captaincy on top of studies was hardly a rest. ASCIT athletic manager in his junior year, he was also a Beaver and swam on the Fleming interhouse team. The future is an unknown variable as yet.



WILLIAM R. SMYTHE

Rod, fearing his father's reputation for making boys out of men in the physics option, decided to get to physics graduate school via the EE option. While at Tech, he has been a member of Throop club and has played interhouse football. His hobbies include flying, hiking, and hot rods. It is rumored that he has ideas about "remodeling" the family 1950 Ford. The way he drives, it will be remodeled in one way or another.

ELECTRICAL

ENGINEERING

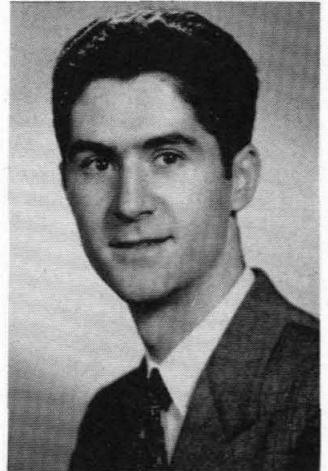
EDWARD STERN

T. TBPi
Ed is an EE with Physicist tendencies. He made Tau Bate in a walk and has been active in AIEE and Throop Club. He's played on frosh and varsity football, basketball, and baseball teams. He enjoys astronomy and tinkering with electrical equipment as hobbies, and plans to go to grad school to work toward a Ph.D. in Physics.



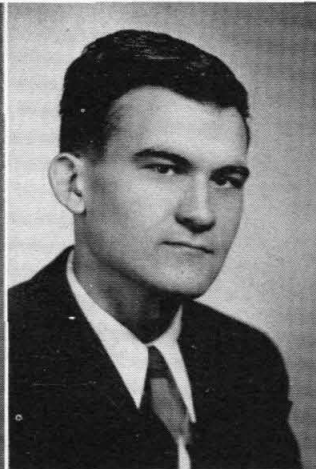
JOSEPH E. SUNDERLIN

Joe spent some time in the Navy taking advantage of the RT program before starting his college life. After one year at Phoenix College, he transferred here as a sophomore and entered Fleming as a junior. A member of the AIEE, he wants to find a job involving plenty of rest upon graduation.



GEORGE TRILLING

TBPi
While George lists EE as his option, he intends to go on to grad school in physics. Those of us who know him are sure he'll do well. He went to Hollywood High School, and still lives off campus, but came originally from France. He's a member of AIEE and (as might be expected, TBP) and just to keep the grind from getting him down, indulges in photography, tennis, and hiking.



ARTHUR E. WENNSTROM

Another of Tech's many Southerners, Art is a resident of Los Angeles. As a loyal Blackerite, he went all out to help win the Snake Trophy. He distinguished himself by finding Smythe terribly easy. For the future, Art plans to study EE in the East.

Not Pictured

KWOK-YING CHONG

Steve spent a year in England sampling the Midland smog before migrating to CIT. Previous to this he spent some time collecting jungle sores and leach bites while in the Malayan resistance. Steve was a member of Blacker House and excelled in soccer. Spent his spare time at the Musicale and making a closer acquaintance with the Golden West.

HENRY ITO

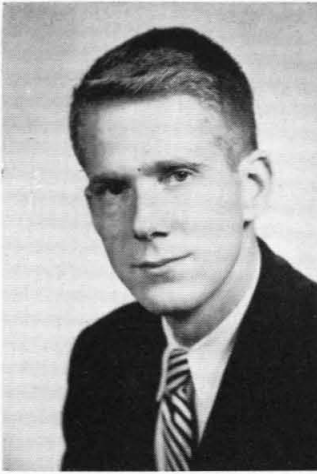
Displaced from Seattle, Wash., by the war, Henry spent the war years in a relocation camp in Idaho. After attending Los Angeles City College, Henry worked at UCLA as an engineering aide. Giving this up for the life of a student again, he came to Tech as an EE. He is a member of the AIEE and is too busy graduating to think of the future.

TERRY W. KOERNER

Originally from Iowa Terry transferred from Santa Ana J.C. to Tech. While at Tech he was noted for building high gain motorboating amplifiers and haunting the Monrovia airdrome. Spent summers understudying construction practices in Kings Valley. A top student Terry was also a member of the AIEE.

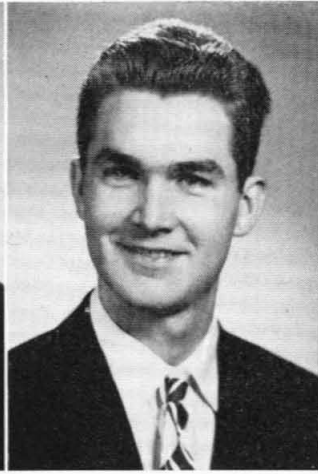
ROBERT F. O'CONNELL

TBPi
One of Tech's few "Leather-necks," Bob came from Erie, Illinois, before spending three years in the USMC. While taking great pride in his wife and son, he found time to be active in AIEE and was elected to Tau Beta. He looks forward to a job as an engineer in the electronics industry.



FREDERICK BAILY

A native of Bronxville, New York, Fred transferred to Tech from Amherst in '49. Since then he has kept his spare time occupied by occasional trumpeting for both the orchestra and the band, to say nothing of his activities in the ASME and SAE. His future plans seem mainly to involve heading East.



WAYNE BEEBE

Married for the past four years and the proud daddy of two kids, Wayne hails originally from Salt Lake City, Utah. A member of Throop Club, he participated in intermural basketball, tennis, and volleyball. Sharp enough to make Tau Beta, Wayne is also active in the ASME. He'd just love to keep on going to school as long as someone else will support the deal and will go into Aero at Tech next year.



HARRY BEGG

Now married but with no family, Harry also spent some time for Uncle Sam, Air Force-wise in the South Pacific. Vice President of the frosh class, Treasurer of the YMCA, and chairman of its finance drive (1948-49) Harry's also been active in the band and orchestra. He plans graduate work in Mechanical Engineering.



JOHN W. BJERKLIE

John spent a frosh year in the U. of North Dakota, a couple of years in Korea for Uncle Sam, and came here as a sophomore. He came into Fleming as a junior, made Tau Beta, and joined ASME. Art and building model airplanes are his hobbies as anyone can plainly see by paying his room a visit. As for the future, he says, "I lost nothing in Korea."

MECHANICAL ENGINEERING

RAY D. BOWERMAN

From nearby San Bernardino, Ray came to spend his time and talents for Blacker House. He ran for the leather lungers for three years and was to be seen on many an interhouse team. Active in both the SAE and the ASME, Ray plans to either go to work or have his work cut out for him by his Uncle Sam. No doubts exist about preferring the former course.

ROBERT G. BOYER

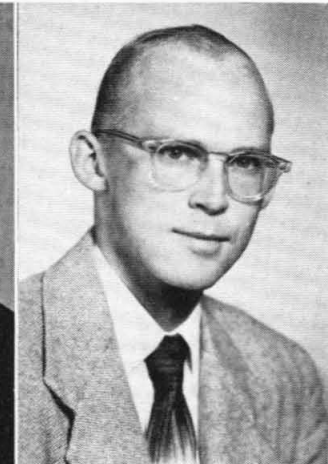
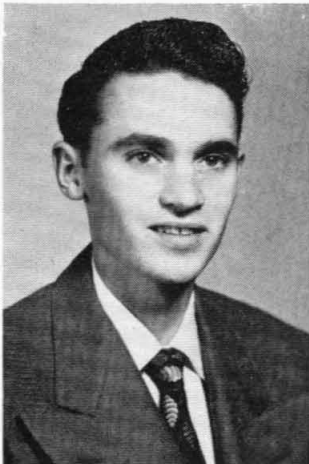
Bob spent a joyous stretch in the Army Air Corps as a gunner before coming to Tech. His new Caltech ingenuity enabled his charming wife to present him with an offspring. Bob has been an active Throop clubber and a member of the ASME. He looks to sales engineering as a future profession.

FRANK BUMB

Frank hails from Corpus Christi and is soon to be married. As Vice President of Blacker House he was largely responsible for the rejuvenation of their esteemed Associate program. Being a member of ASME and SAE, Blacker Publicity Manager, UCC and BBTBS head waiter keeps him busy. A summer spent in Alaska fighting mosquitoes for the Bureau of Public Roads is his bid for fame. Frenchie will attend grad school at Tech.

ROBERT EUGENE COVEY

Bob spent a few unwelcome and regrettable years in Korea with the army before starting his collegiate career. From right here in Pasadena, he enjoyed two years at PCC before transferring to Tech as a junior. In Throop Club and a member of the ASME, Bob indicates no desire to graduate into more army service. Instead, he plans to marry Joyce and come back next year for grad work in aeronautics.





ARTHUR R. CUSE
HONOR KEY

Since journeying from Jersey City, Art has had an interesting and varied career in four years at Tech. Prominent leader in underground activities; championed Tunnel's cause as Keeper of Cans, Cardinal, and Pope in Blacker. After job in Alaska "Moose" was writer for "Tech," member of SAE, ASME, CES, PBAA; headed Sailing Club as Commodore. Became ASCIT First Rep this year. Plans for grad work in Business at Harvard; then exploitation of natives in South America.

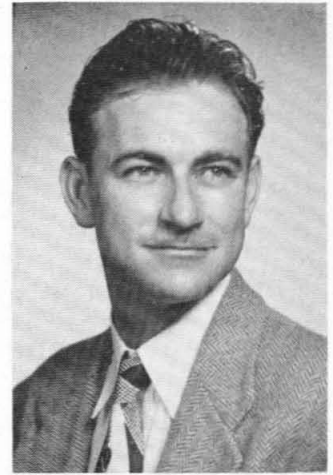
DEAN C. DAILY II
HONOR KEY, T²

Hailing from North Hollywood, Dean spent three years on the varsity basketball and baseball teams, lettered in baseball, and also played for the Big Red. The Glee Club, the ASME, and the Big "T" took more time. Mary Helen proved a great attraction and an Easter trip to Mexico City was the result. Uncle Sam permitting, an easy job would be welcome. Very much 1-A now, he wonders just how easy a life the army permits.



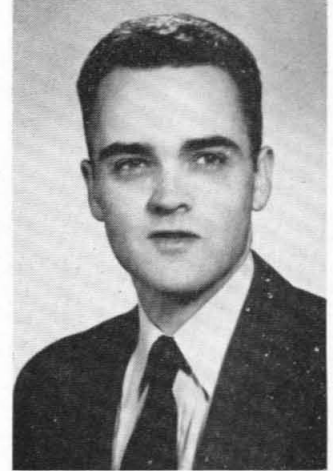
ROBERT P. DAY

After convalescing and two years at Long Beach CC, Bob came here as a freshman. Former years were spent working in oil-fields, shipbuilding, trucking and caddying. Now married, (no family as yet) and active in the ASME, Bob hopes to enter the field of research and development of guided missiles upon graduation.



JOSEPH DENNEY

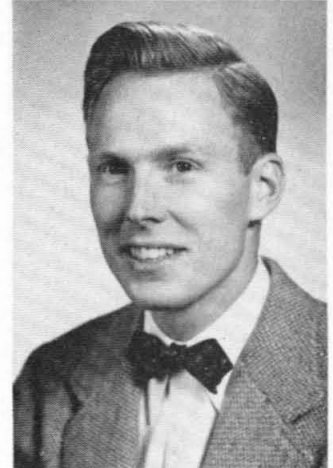
Another northerner from Kent, Washington, Joe spent his pre-Caltch days at the Univ. of Washington and then in the Navy as an ETM. A married man, he was also a social member of Dabney House. Hobbies include hunting and guns. After he receives his BS in June he will go on to grad school in metallurgy.



OLIVER GARDNER

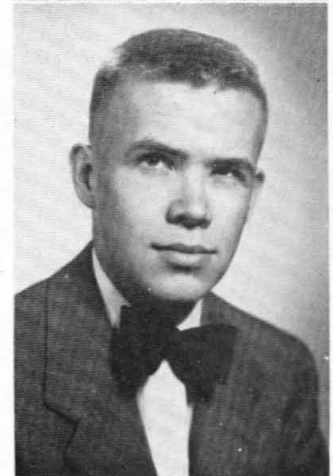
T², HONOR KEY

Hailing from Melrose, Mass., Ollie spent three years in the 29th Infantry Division as a Staff Sergeant before coming to Tech. Last summer he journeyed to Switzerland to marry the girl of his dreams, and has since lived off campus. A valuable member of the ASCIT government, he served as 2nd rep., sec'y, and V.P. In his spare time he was an enthusiastic skier and member of the Ski Team.



JOHN HALLSTROM

John was off campus for his first three years at Tech and then decided to come to Blacker at the beginning of his senior year. Engineering is his main interest and he is a member of the ASME. He loves to listen to music and to tinker around with his model "A" Ford. In the future, Uncle Sam permitting, he will probably have to go to work.





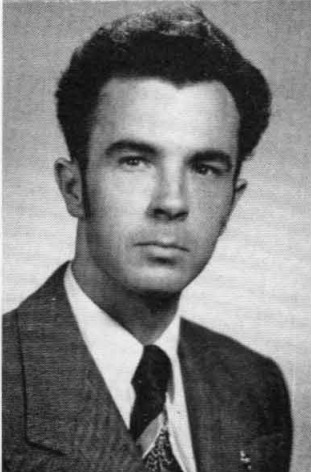
WILLIAM HENLEY

Bill's hometown is cold, cold Chisholm, Minnesota. As a member of the U. S. Army Bill toured Europe before coming to Tech. A married man with two children, he modestly exclaims, "I've been too busy lowering the average GPA to be active on campus." Despite all this modesty, Bill has been a member of the ASME and plans to go on to graduate school here at Tech.



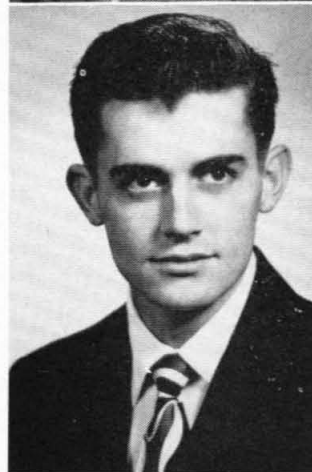
JOSEPH MANGIN

Joe, originally from North Hollywood, now calls San Marino home. His early interest in that vanishing phenomena the "hot rod" naturally led him into the SAE and ASME of which he was Secretary-Treasurer. Future plans include marriage in June and after that grad school in ME.



CLYDE H. KELLEY

Clyde's history reads like a travelog. After three years in Uncle Sam's Army and two years in England, he spent time gathering knowledge from four different colleges and finally settled down here in forty-eight. By his own confession he will be glad to finish school and squat down here in Southern California.



JOHN W. MORRISON

Originally from God's country (Nevada City) Mo is UCC of Fleming's infamous Alley Five. Always to be seen on house teams, he helped many a Big Red Team to victory. A former chairman of the institutors, he now spends his effort at the presidency of the Cal Tech Yachting and Polo Club. He plans to get a good soft job after graduation, but Uncle Sam may have some job already planned just for him.



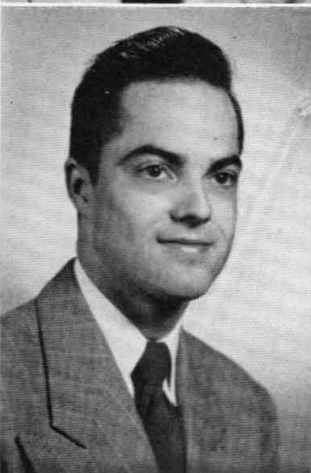
MARSHALL KLARFELD

Bud "TV" Klarfeld has been Muntz's pride for two years and still hasn't been able to beat the tax laws. Social chairman and interhouse basketballer for The Big Red, Bud also dabbles with the Drama club, the Ski Club, and the ASME. As for the future, he plans a life of marriage and travel, having already retired.



RICHARD NUNO

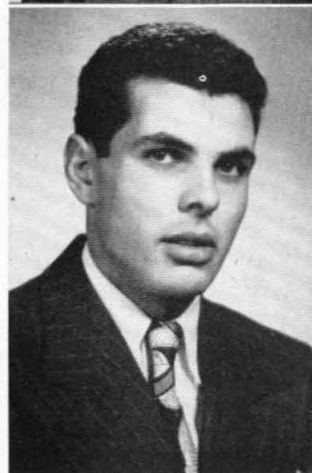
Dick first started here as a frosh in 1942. The army then treated him to a vacation as a BAR man in France and Italy. In his younger days, he went out for frosh track, but now he's just trying to stay in school and be married at the same time. An ME, he plans to get a job and start a family as soon as possible, sees a future in coordinating engineering and writing.



DAN BROWN LEMAY

TBPi

One of the two members of the Front-Wheel-Drive Club, Dan set up housekeeping in Pasadena with his lovely wife from hometown San Diego. He was active as Student Chairman of ASME, Secretary of Dabney, Sports Editor of the 1950 Big T, Dabney Crew member, and wrote a bit of Western Pulp material on the side. Future plans include Air Force OCS or a civilian job.



VICTOR D. PORIZKY

Vic came to Tech and Ricketts via Salt Lake City. As a well known handicapper at Santa Anita, he has worked ardently at trying to outguess the ponies. After graduation he plans to settle in Las Vegas with high hopes of beating the gaming tables with Porizky's sure-fire method.



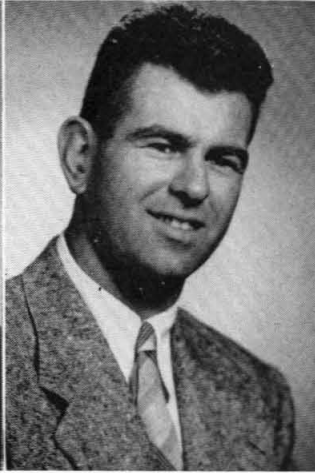
PETER PRICE

Being from Canada, Pete naturally was one of the mainstays of Caltech's ski team. Besides being Prexy of the Ski Club, he has actively recruited many to skiing during his four years at Tech. As a true organizer, he also helped introduce soccer as a minor sport. Like many others, he plans to continue with graduate work in ME.



DAVID RATHJE

Dave, the man with the Pepsodent smile, is from the Windy City. On campus, he has been a member of Throop Club and the ASME. His future plans include a "job with lots of security and free room and board." In view of his planned marriage it is difficult to tell whether he has struck it rich or whether Uncle Sam wants him also.

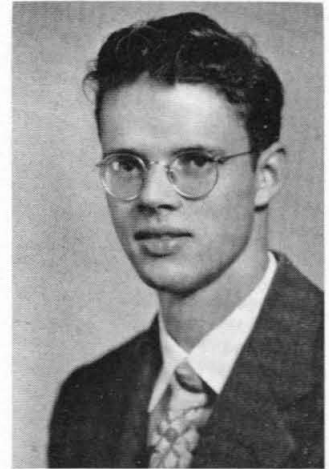


PAUL SKOGLUND

Probably one of the oldest men in the senior class, Paul graduated from high school way back in 1936. He worked until the Army treated him to a three year field trip in the South Pacific and Japan. Active in Throop Club, SAE and ASME, and Alhambra civic affairs, he plans upon graduation to finally go to work to support his wife and two kids.

LARRY SOKOL

Active in the interhouse sports and social affairs of Throop Club, Larry came here from Alhambra with the experience of having had his own dance band in high school. He's also written several pieces for the school paper. Still single, he plans to try to stay out of the army (everybody's got a way) and go to work for industry.



MECHANICAL ENGINEERING

LOUIS STALLKAMP

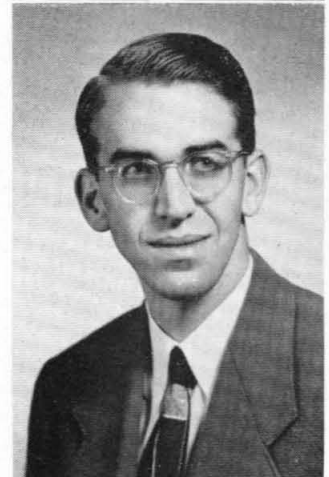
Another loyal Throop Club member, Lou is from South Pasadena. He's spent the best years of his life on the baseball diamond, and has collected one frosh and three varsity letters during his time, at second base and shortstop. Plays softball in the summer for a "change." Graduating as an ME, he plans the army, or foreign or production work for the future.

BJORN THORSTENSEN

Bjorn came to Tech by way of Oslo, Norway. To the surprise of no one, he was one of the regulars making the trip from Pasadena to Snow Valley where he did a lot of skiing including racing for Dabney. He was also a staunch supporter of Dabney's social functions and rarely missed a beach party.

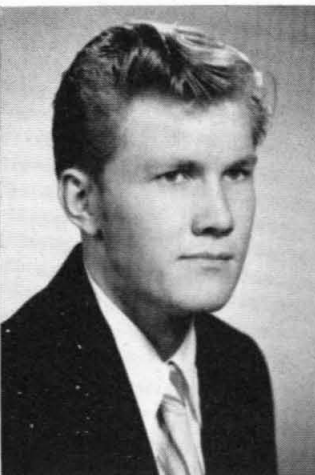
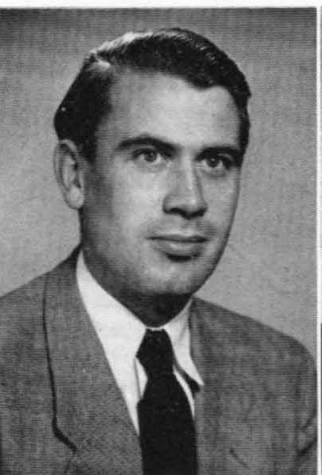
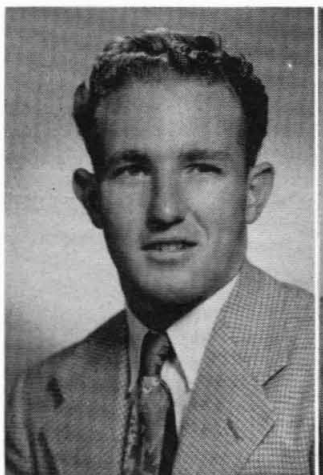
ALBERT E. VAN HISE

Al's another with whom the Engineering option has been the consuming passion. Off campus for the entire four years here at Tech, he has been married for the past year and a half and highly recommends this course of action. A member of the ASME, he plans to go to ME grad school here next year. After that, he figures he'll just have to go to work for once.



L. RUPERT VREUGDE

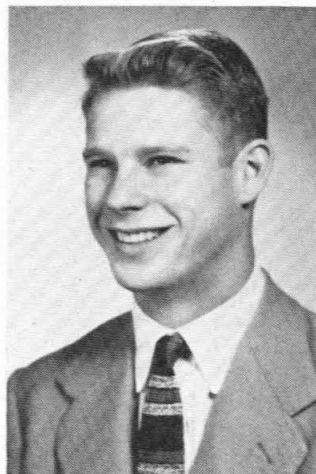
Dutch came to Tech after spending his early years in the Netherlands, Dutch East Indies, and Houston, Texas, which last he now claims as home. Not satisfied with our warm balmy clime he spent much time up at Snow Valley where he was Ski Team manager and Ski Club Secretary. His future plans are aimed towards work in the field of engineering design.





ROBERT LEE WAID

^T
Bob transferred here in his junior year from Chaffey J.C., and found he had to work a bit harder. From Ontario, Bob was the two year "iron man" of the track team. Also very active in interhouse sports for the Big Red Machine, he was a mainstay in this year's fight. An ardent ME, he will attend grad school if Uncle Sam will just lay off a while.



G. BERK WELCH

^T
The Cosmopolitan Rudolph has been playing tennis at Tech for the past four years. He managed Frosh and Varsity teams, and was elected tennis captain in his senior year. Was UCC of Blacker's Lower Presidential. He went to Harvard summer school in '50 and hopes to return there for grad study in Business Administration.

Not Pictured

EMIL BOBLETT

Hailing from Indianapolis, Emil served in the Army Air Corps for three years before coming to C.I.T. Possessing a high degree of personal initiative and originality, Emil is a co-inventor of a new type electrostatic generator and super portable Geiger counter. He has also taken an active part in Musical and student shop.

JIM LUSCOMBE

Jim came here in his frosh year and promptly found himself class president. He played frosh football and participated in several interhouse sports for the Big Red Team. A Fleming House constable of some note, he later moved off campus and got married at the end of his junior year. Having previously spent a little time in Japan, he doesn't worry about the draft, will find a good job next year.

ELMER F. WARD

Not being able to turn to the GI bill for benefits, Elmer was forced to spend all his spare time keeping his wife and two young breadwasters in presentable condition by working for a local engineering firm. They are so satisfied with his work that he was offered the job of chief engineer before he graduated. Originally from Cleveland Elmer has decided to make California his home.

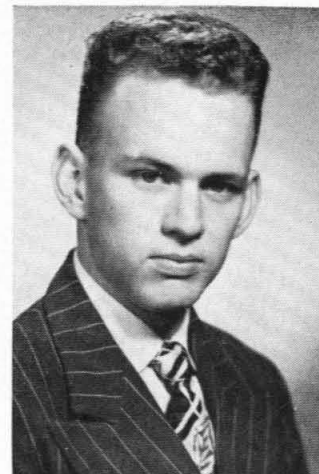
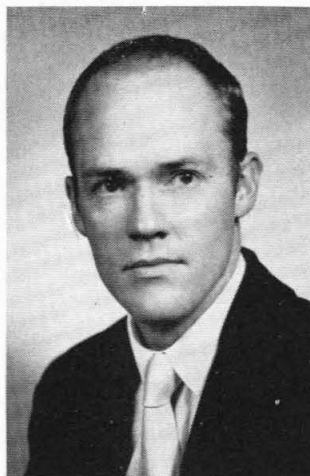
WILLIAM WRIGHT

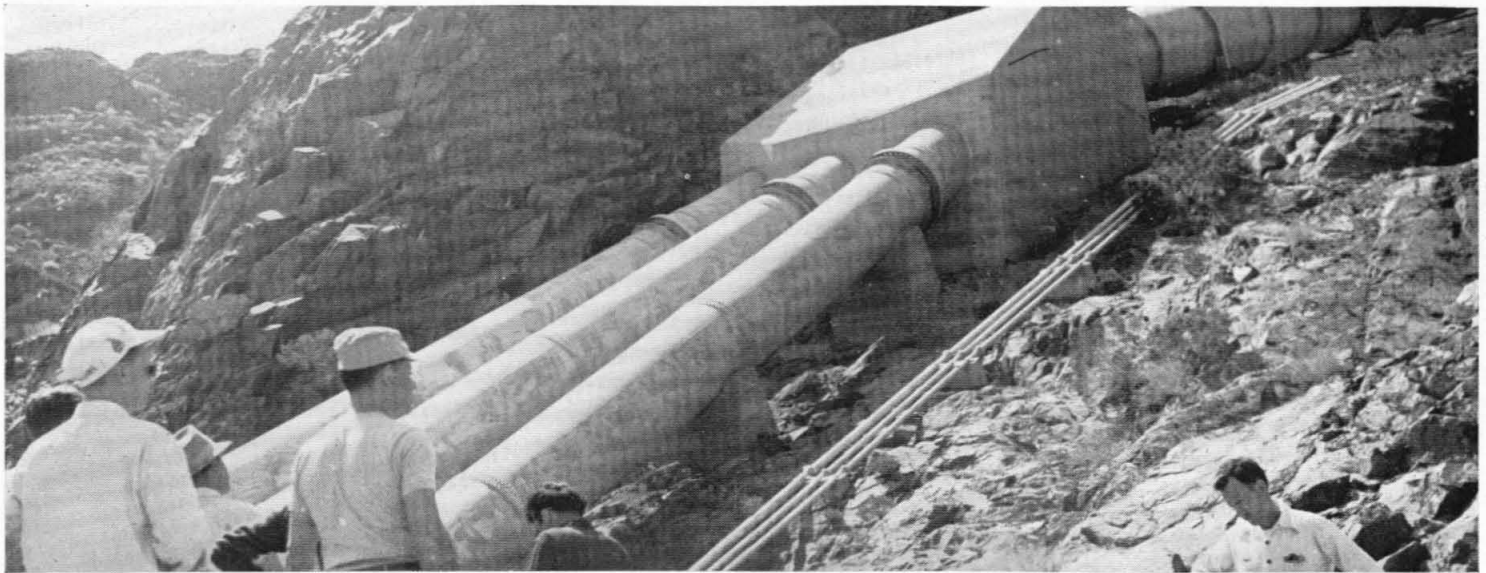
^{TBPi}
After migrating from Long Beach and Catalina, Willie soon became congenial host of Tunnel's Club 37. When not occupied with PBAA activities, was feature editor of "California Tech," co-photo editor of 1950 "Big T," photographer for "Engineering and Science," and SAE secretary. Became Tau Beta pledge in junior year. At present divides time between wife Jane and William V. III and research in metallurgy. Hopes for Ph.D at Tech.

FRED WOOD

HONOR KEY

River Forest, Illinois, should indeed be proud of the active career Fred led while at Tech. A four year Beaver member and at one time Vice-president of that organization, he has been Frosh Prexy, Rally Commissioner, Board of Control member, and President of Dabney House, participating the while in frosh baseball, interhouse athletics, Dabney quartet, and PBAA. He will be heading towards Harvard Business School next fall.





CIVIL ENGINEERING

KENNETH R. BERG

Ken, the man with the velvet voice, hails from Hollywood. At Tech he has been active in the ASCE, YMCA, and in inter-house and varsity athletics. He has also been seen frequently indulging in that clever method of self-torture known as weight lifting. Ken plans graduate school in the East, if possible.

DEAN BLANCHARD

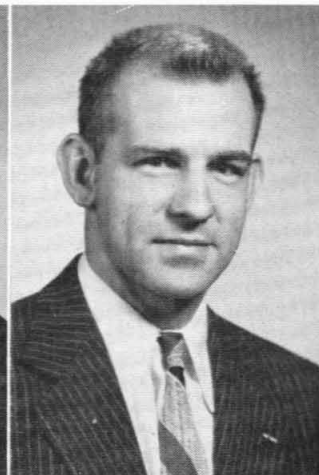
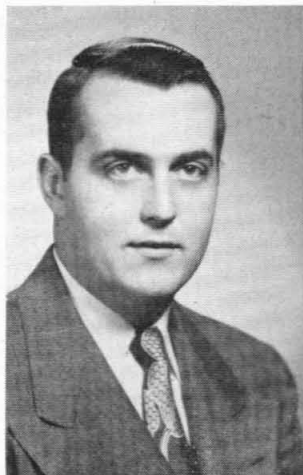
Dean, whose home is in San Francisco, is most famous for his efforts relating to the gentle art of body culture. In between the happy hours spent weight-lifting and attempting one armed handstands, he acquired two varsity tennis letters and was a habitue of the local ski slopes and spear fishing beaches. After graduation Dean plans to go into construction work, possibly overseas.

WILLIAM E. EILAU

Bill is one of these ambitious guys who's gone through the M.E. option as well as being a C.E. Pre-Tech, he spent three long years in the Army Air Force, serving as a navigator in the E.T.O. In keeping with his versatility, Bill has been a member of both ASCE and ASME while at Tech, and is now hoping the Air Force Reserve will allow him to apply his education as a civilian.

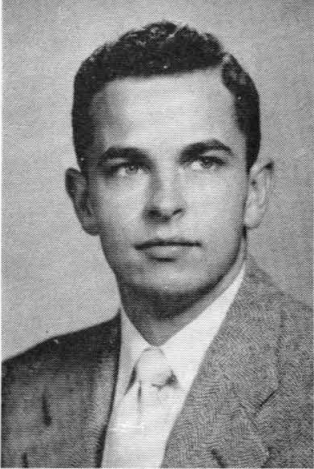
JOHN G. ELLIOTT

After transferring to Tech as a junior, from UCLA, John became an ardent Throop Club member, active on all their interhouse sports teams and usually to be found playing bridge in Throop Lounge come noontime. John is a member of the ASCE, and though his draft board has plans for his immediate future, his interest in water supply and water works will probably decide his lasting career.

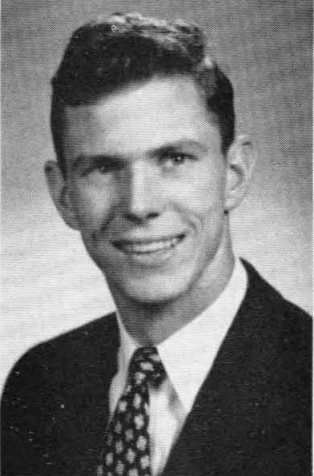




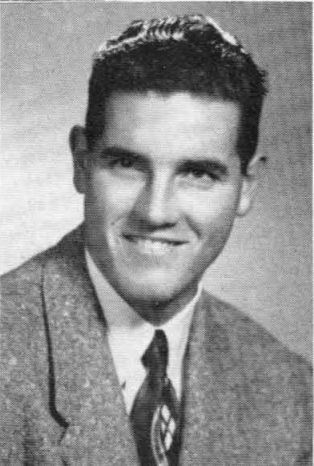
JOHN R. FEE
T, HONOR KEY
 Versatile John came to Tech after three and a half years as a captain in the army and after graduating from the University of Kansas in Business Administration. His activities were many; President of Senior and Soph classes, Treasurer of ASCIT, Secretary of Blacker House, member of ASCE and Beavers, UCC, and national Representative of YMCA. Soon to be married, he plans to find a job wherein he can utilize his third degree.



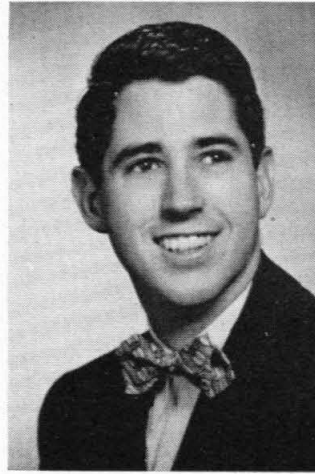
BRUCE HEDRICK
T⁴
 Boris of the blue taxi distinguished himself in many fields of activity at CIT. Musically, he played a hot trombone, sang in the Dabney House quartet, and spent many a Thursday night crooning at the track. Athletically, he earned four varsity baseball letters including selection as all-SCIC pitcher Also, the varsity club and the PBAA, of which he was president, claimed his membership.



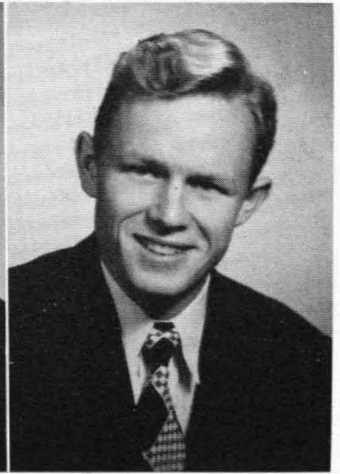
RICHARD M. LIBBEY
T³, TBPi, HONOR KEY
 Honolulu's pride, Dick spent three years on the varsity water polo, basketball, and swimming teams. He set a new record for Tech in the 100-yard swim and was a mainstay in the water polo team that went all the way to the Southern Cal finals with Fullerton. A Beaver and president of the Tech YMCA. Dick was also Vice prexy for the Fleming Big Red. He and Ann made a couple at many a Fleming social function. He plans to go to grad school.



ROBERT MUNRO
T
 Bob's a Throop Clubber from San Marino. Known for the weight he can put behind a bat, he played varsity baseball for three years, varsity football for one, also frosh football and tennis. He may be seen on all manner of interhouse teams for the greater glory of Throop. Now senior class treasurer and recording secretary for the ASCE, he plans very soon to be cannon fodder for the much greater glory of Uncle Sam.



EARL CHARLES HEFNER
 A sea dog from Uncle Sam's Navy, the old man has established an enviable record at Tech: Editor of Calif. Tech, President of Blacker House, Editor of Little T, President of Interhouse Committee, YMCA Publicity Manager. Curly spent a year at Oregon State before entering Tech. He is well known for his crushes on high school girls and plans for graduate work in structures.

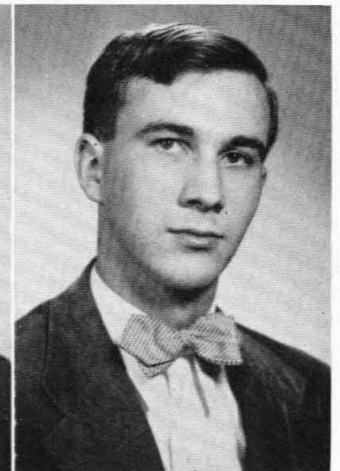
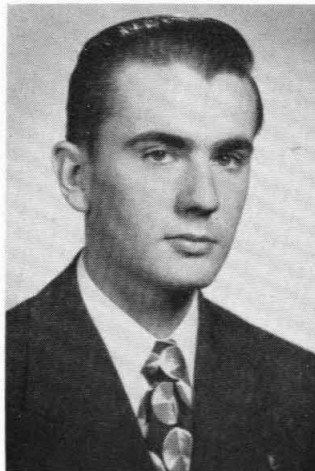


BRADFORD HOUSER
T⁴
 Brad has traveled far and wide — Panama, French Riviera, Samoa, and Waikiki. Originally from Wash., D.C., he is now married and lived off campus his senior year and part of his junior year. Brad has been active in sports, having letters in swimming, cross-country, football, soccer, and water-polo. Eventually he plans to live in the tropics near a body of water.

CIVIL

RITCHEY NEWMAN
 Ritchey, who comes from Duluth, Minn., is an ex-Navy man, and there is a possibility that the Navy will again be using his talents soon. At Tech the Glee Club made use of his golden throat, while the frosh cross-country team, ASME, SAE, and ASCE made use of his other aptitudes.

EDWIN E. PYATT
 With his savoir-vivre, Ed was a natural for directing Blacker's notable social program and for railroading assessments through. As secretary of ASCE he did a noteworthy job. Eddie enjoys mountain climbing, psychology, and has a Boy Scout troop in Redondo Beach. Future plans include grad work at Harvard in Sanitary Engineering.





ENGINEERING

Not Pictured

ROLAND A. BERNER

Roland put in two happy years as radio officer in the maritime service before starting at Tech, but as often happens he changed from EE to CE. He hails originally from San Jose, but his family recently moved to Pasadena. He was active in sports, both varsity and interhouse, is a member of the ASCE, and is a diligent pursuer of the social joys. He says he's glad to get out and go to work, if Janet thinks it best.

URI RETTER

Uri came to Tech from the Hebrew University at Jerusalem, Israel. While on campus, he has been a member of the ASCE and the Musical. He is greatly interested in the current "Return to Nature" movement. After graduation Uri plans to return to Jerusalem.

ROBERT E. SMITH

Sober parliamentarian from Santa Cruz way where he did a summer stint as crime photographer, Bob was active as president and secretary of the student ASCE chapter, vice-president of Pi Kappa Delta in which he received the debaters' gavel, Ski Club member, frosh footballer, and Dabney UCC. He plans to enter water supply or sanitary engineering.



JACK M. SWEETMAN

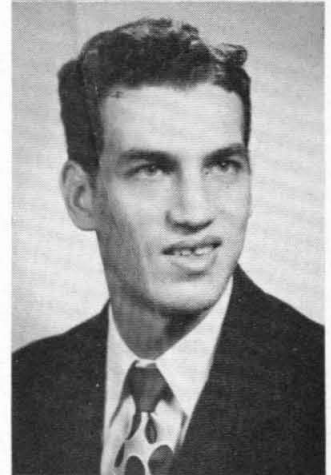
Jack came to Tech after getting his start as an S.I. at John Muir City College. Pre-school days had included a rousing stretch in Uncle Sam's Air Corps. Tech activities include membership in the ASCE; and now, having made the fatal error of getting married this last Christmas vacation, Jack is hoping to settle down and enjoy life.



DON W. SCHMID

T², HONOR KEY

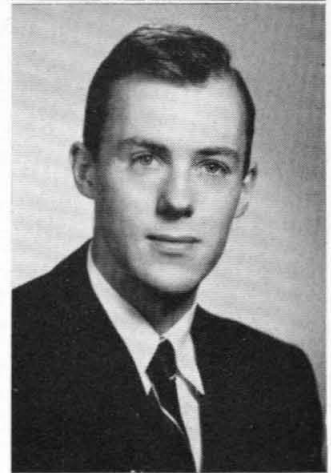
Don, under whose inspirational but not always patient leadership most of these blurbs were written is a local farm product, coming from Anaheim High. Never one to work too hard, Don nonetheless went out for both varsity football and tennis the entire four years of his stay here, played on interhouse teams, was vice president and treasurer of the ASCE, an adroit UCC of Blacker, Dancing Class wheel, and had the thankless task of Big T class editor.



ALFRED SERENO

T²

Al, native of Honolulu, spent time in the Army, and was a Waikiki beachcomber. Active in sports, he has numerals in frosh basketball and baseball, and has played varsity football and basketball (three letters). ASCE and Varsity Club member, he was also active in Rowdy sports and social life. UCC of notorious Crud Alley, Al has two ambitions: 1. To return to Hawaii; 2. To beat the ponies.



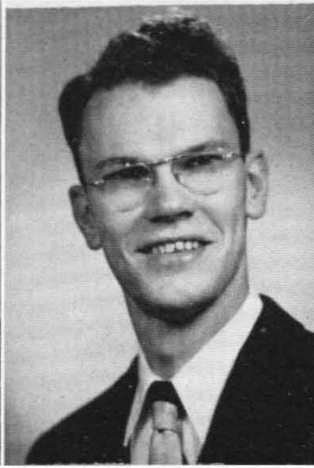
ROBERT TEAM

Bob was born in far off Shanghai and has spent most of his time traveling from one place to another. Attendance at 14 different high schools provided the necessary background for his sojourn here. Membership in ASCE and Blacker House where he helped in their drive for the Interhouse Trophy rounded out his schedule. Bob believes the 18 months he spent in Japan will keep him out this time.



MICHEL BADER

Listing Santa Monica as his home town, Mike is yet reknowned as a master of the continental approach acquired from his native Parisian environs. At Tech he has been active in the YMCA, serving as their national representative and has been a stalwart on the Dabney House Social committee and IH bridge teams. Mike plans to come back next year and bridge the gap between math. and physics.



LEO L. BAGGERLY

T², TBPi, HONOR KEY
The height of well-roundedness has been attained by Leo. His activities varied from soccer to the regional co-chairman of the YMCA. He is seen at all social functions and leading the yelling throng at the CIT football games. Leo's future plans to be as well filled as his under graduate days. Grad school and marriage are in the future.



MITCHELL BAIN

Mitch spent two years in the Navy, some of it in electronics school, is now happily married and expecting the beginnings of a family. Originally from Miami, and a physicist, he's been working in the Biology Department with electronic equipment for the past couple of years. He collects classical records and loves to fool around with amplifiers while not snaking Smythe.



ROBERT E. BIBLE

From Abilene, Texas, Bob spent all too much time with the Navy before coming to the halls of the Big Red. Co-athletic manager during his junior year, he took time out between the last two years, but decided to come back after a little rest. Bob was seen on many a house team, more than any other man of the house. After graduation, he has a job all lined up with Chance Vought in, you guessed it, Texas.

PHYSICS



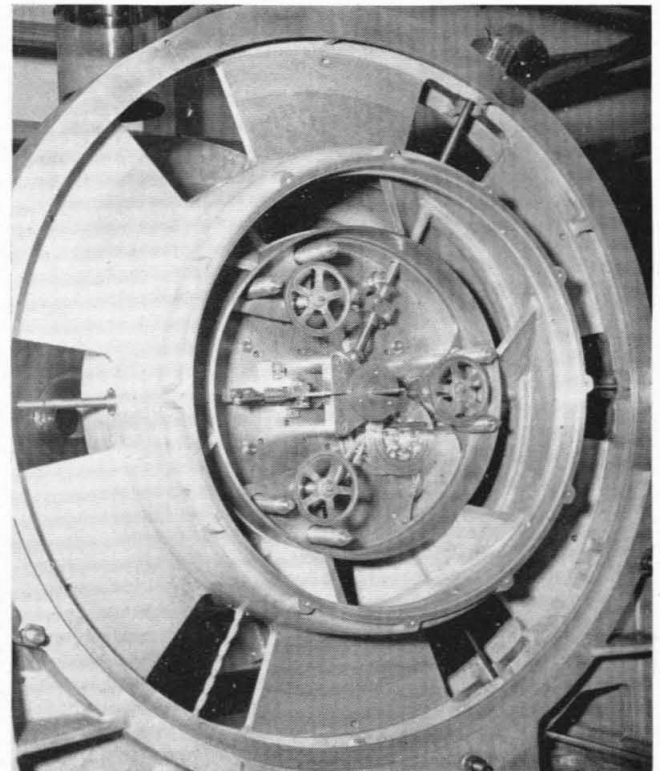
DOUGLAS CALLEY

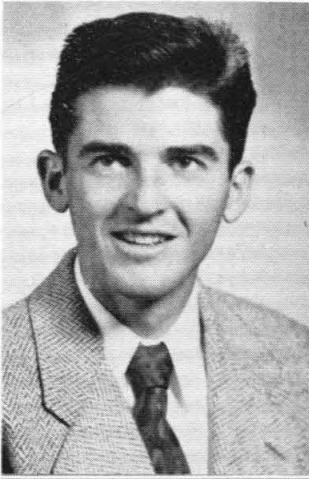
Doug can usually be found at the Musicale or practicing with the Tech orchestra. Spends his summers away from smog filled Los Angeles visiting Mexico with the socially elite. Is well known for his four pair of glasses and his ability to grab a seat in the front row. Plans to teach after he finishes his toil at Tech.



WALTER DAVISON

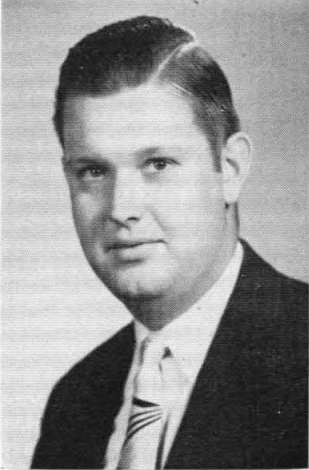
"An affinity to steak, enchiladas, ballet, scotch and certain types of blondes" distinguishes this veteran of two years in the Navy. Writing for the California Tech and fencing occupied Walt's first two years at Tech, before a short interlude spent working at Los Alamos. Now back at CIT, he hopes that the aforementioned affinities will make life interesting until he enters grad school to do research in quantum statistics.





WALTER EDWARDS

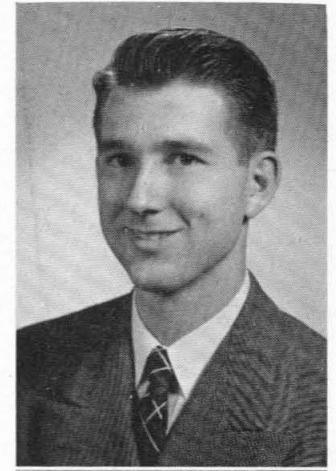
One of the physicists who chose to suffer through Smythe, Walt also suffered through track, and cross-country during his stay here. Living off campus (L. A. to be specific) Walt was a social member of Fleming for a long time, but has recently become affiliated with Throop Athletic Club. He plans to go into the Air Force after school in spite of the advice of those who suffered with the fly boys.



FRED EISEN

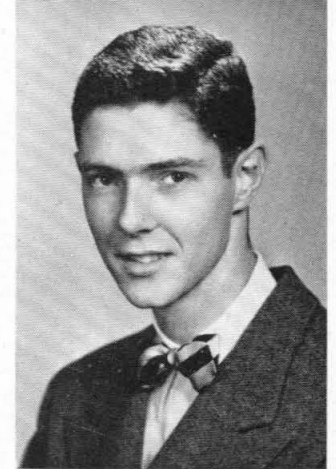
TBPi

A physicist with definite tendencies toward EE, Fred has spent his spare time during the past two years working over electronics equipment for United Geophysical Co. From Tulsa and proud of it, Fred was on the rally commission, managed the track team and was sharp enough to make Tau Bate. He is coming back for more (grad school).



DAVID J. ELLIOTT

Dave, whose home is in Bartlesville, Okla., is the local authority on rockets, having built and flown liquid-propelled rockets, and being a member of the Southern California student rocket society. He plans grad study in Jet Propulsion. Active in the Physics Club and orchestra (violinist and librarian). Dave also managed to claim first prize in last year's McKinney Essay Contest.



JON GOERKE

HONOR KEY

From West Orange, New Jersey, "Argegi" has earned fame as Veep, Social Chairman, and Historian of Dabney; Art Editor of the '49 and Editor of the '50 Big T; Beaver; cartoonist and special writer for the Tech; and in IH sports. This charter member of "The Red-belly League" has logged at least 5000 miles east to the ivory towers of Claremont in search of the wily snapper. Jon will continue his search at Yale Med school in the fall.

MONTAGUE GRIFFEN

Coming from Brawley, California, Griffen lists as his accomplishments: four years of PE and a devil may care attitude. His interests at Tech lie in the Musicales and Throop Club. His plans for the future will probably be interrupted by a winter vacation in Korea.

ROLAND W. JOHNSON

T²

Another local product, Roland is a member of the fearsome Throop Club combine which is leading the interhouse race this year. While he played and lettered in varsity baseball he also found time to play interhouse tennis, volleyball, softball and (surprisingly enough) baseball. He seems to think that the Air Force can use a man who's taken Smythe.

JOHN B. JOHNSTON

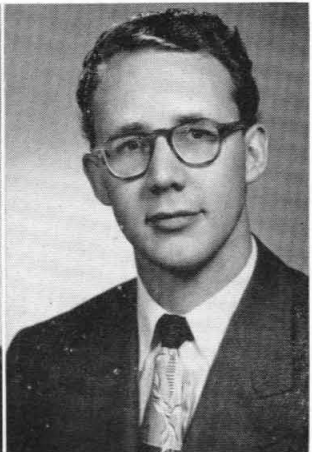
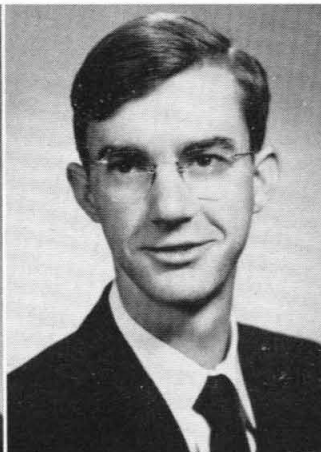
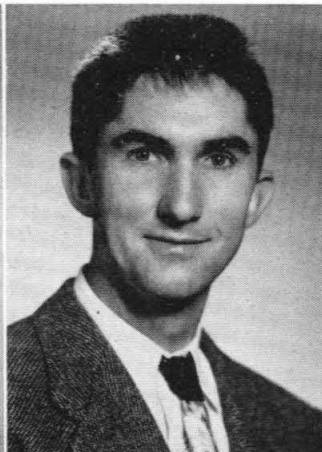
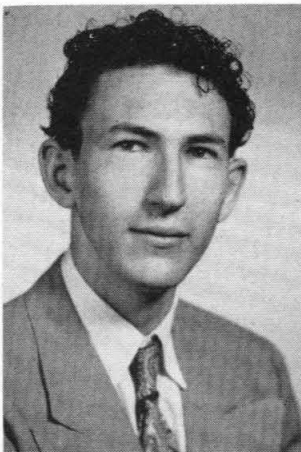
TBPi

From nearby Whittier, John made Tau Bate in a breeze. Band manager and active in house volleyball for The Big Red Team, Johnny splits his spare time between hiking in the mountains and desert and performing anatomical dissections on the famous '36 Ford. He plans grad school in mathematics followed by a teaching career if Uncle Sam will permit.

THOMAS LAYTON

TBPi

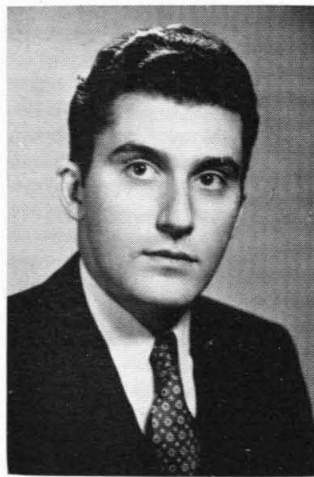
A quiet good natured fellow with a wife and two happy years in the Army Medical Corps, Tom is another of the top-notchers who plans to go on to physics grad school. From Kaysville, Utah, Tom has spent four happy years here in the land of smog and no snow.





CARROLL R. LINHOLM

Another local boy, Carroll did time at both PCC and Muir, and being immune to the smog of the city of the Angels, continued here at Tech. He is active in IRE, AIEE, and the Musicale. Although still single he is by his own admission weakening. If the Navy doesn't interfere he hopes to get some of that easy money offered to all scientists.



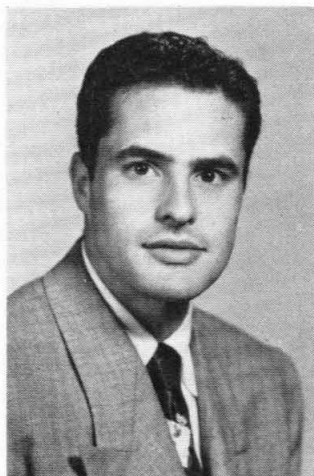
ROBERT W. MADDEN

Another Navy RT, Madden immigrated from Massachusetts to study physics at Caltech. As a "ham" and trustee of W6RRO, his New England conscience is well known in the area. But the smog and wild California drivers will force Bob's return to his native Worcester for a job or graduate work.

HAL MARTIN

T³

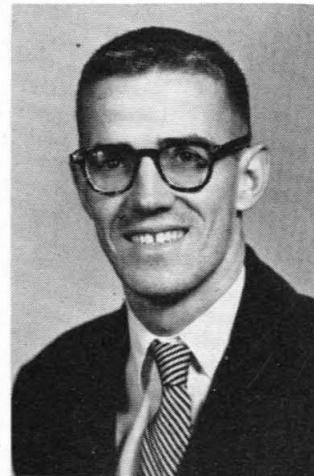
A San Marinan who wandered academically from West Point via Cornell, SC, PCC, to Caltech, where he finally settled down close to home. Here at Tech he alternated his time between Debate, playing soccer and cultivating beautiful friendships with many campus secretaries, and, before its demise, was prominent in the CIT Toastmasters' Club. After Graduation he plans to go to work, probably with IBM.



HUGH J. MARTIN

T³

Living a rather nomadic existence before coming to Tech, Jack was soon to rise to the top of our Tennis squad. Having found life a little lonesome here, he returned in his senior year accompanied by a wife who helped him in his relentless siege of grad schools. His voluminous notes taken in every history class were often the source of detailed investigation at finals time.



PETER MASON

T², TBPi, HONOR KEY

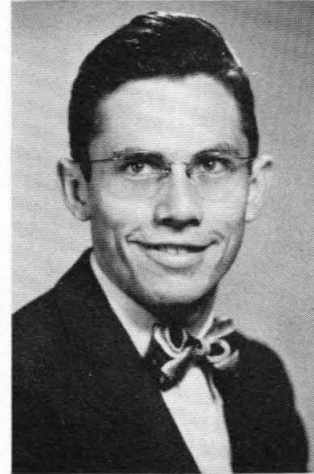
From Waterbury, Vermont, Uncle Peter has made sailing his chief avocation and hopes to sail around the world in his 22 foot sailboat. He was Treasurer of ASCIT and lettered in both track and cross-country. One and a half years spent in the Air Force conditioned him for the job of Upper Presidential's UCC. He typifies the browbeaten physicist and is interested in aeronautics grad work.



GEORGE MERKEL

TBPi

George, a San Francisco product, achieved lasting fame as one of the stalwarts on the Dabney crew team, which activity earned him the name "Golden-throat George." In a more serious vein, he was active as a debater, UCC and Tau Bate. Although in a rash moment he purportedly spent his grad school money on a car, he probably will continue in Physics at Cal.



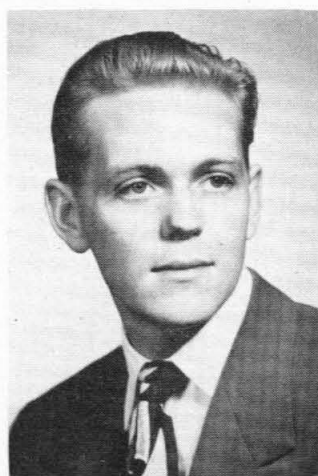
JOHN MOSS

Having played both frosh football and baseball, John, whose home is in Riverside, Calif., has kept keenly interested in sports, mainly interhouse. Serving as Athletic Manager for the Rowdies this year, he has still managed to reserve plenty of time for his favorite pastime—bridge. "Future plans?" says John, "I'm in the inactive reserve."



CHARLES PAULSON

Coming to Tech from Palm City, California, Chuck quickly retired to the "Greasy" where he could almost always be seen rationalizing over a cup of lukewarm coffee. His pre-Caltech days were unhappily spent as an RT in the USN, thus making him one of the last of that noble but vanishing species. Future plans include staying out of the Navy and working for Westinghouse in Pittsburgh.





WALTER PFEIFFER

Walt spent a little time for his Uncle as a navigator in the Air Force. Now married and a proud papa, he's been treasurer and vice prexy of Throop, as well as president of the Beavers. He's spent three years catching and guarding the hot corner for the Preislernen. Now in Physics he plans a bright unregimented future in some lucky aeronautics grad school.



WINSTON ROYCE

A self-styled Bixophile from Arcady, Win was one of the "unknown contributors" to the Tech, but assuaged the aroused wrath of Dabney by serving on many social and athletic missions for the house. The UCC, red belly league, and PBAA, of which he was treasurer, claimed his soul, but aeronautics grad school will probably win out.



WILLIAM F. SAMPSON

A physicist who loves to dabble in old electronic equipment, Bill foresook the pure halls of Fleming to marry his one and only from seven miles west this last Christmas vacation. Band manager, he also blows a mean trumpet for the orchestra. As for the future, he'll undoubtedly snap up the first golden opportunity.



GENE SHAKESPEARE

Gene graduated in '45 from an L. A. high school, whereupon the Army grabbed him for a year's service on Guam. Here at Tech his non-academic interests have been chiefly in track. The Rowdies are rightfully proud of him for his virtually inevitable victories in cross-country. His plans for the future are uncertain. "Hard to say now," says Gene.

PHYSICS

RICHARD SMYTH

Rich generously lets four towns claim him: Ada, Okla., Long Beach, Pasadena, and Richmond, Calif. His spare moments are occupied with track, cross-country, watching TV in his room, and evidently there's something else — he's engaged! Last year he slaved as co-editor of the Little T. Unless the Army disagrees, he plans to work for the Navy in a civilian capacity.

KENT STRATTON

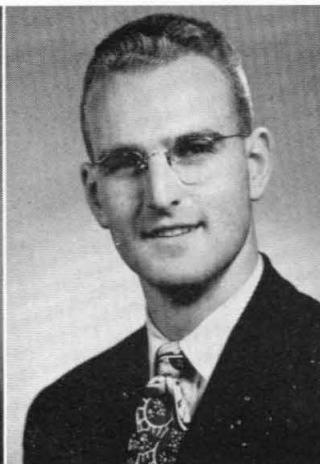
HONOR KEY
Silver-tongued prexy of both Ricketts House and the Physics Club, Kent also had ties with the Beavers and the '49 Rally Committee. Students' Day saw him practically prostrate from getting the Guide Service organized. Claiming Irvington, N. Y., as his home town, Kent spent two years in Germany in Army Intelligence before coming to Tech. Future plans? "To work!" unquote.

SANFORD S. SWEET

Some people go on from physics to engineering or to selling, but Sandy is one of the few in this year's class who is going into the ministry. A believer in the full life, Sandy has been out for basketball, volleyball, inter-house sports, Glee Club, Musical (Vice President), Pasadena Civic course, listens to records, and in his spare (?) hours puts in time at the Naval Ordnance test station.

ALFRED THIELE

Just whisper the word "audio" around Al and you'll find yourself involved in a technical conversation about crossover points, bass responses, and the many other little details that haunt the average audio fiend. Al originally came from Texas, but spent his high school years in Glendale. No snake he, Al was secretary and also chairman of the IRE as well as a member of Throop Club and Physics Club.





LESLIE WANLASS

Kent is a former ME—turned physicist. From nearby El Monte, he has been seen on many a Throop interhouse team. He went out for varsity basketball as a senior, and has been active in the IRE. As for the future, he seems to be disgustingly healthy, unmarried, and just the right age to make himself very desirable to Uncle Sam as soon as he obtains that sheepskin.



WILLIAM WHITNEY
HONOR KEY, TBPi

A man of many parts is this Techman from Spokane, Washington: to wit, Frosh baseball; Feature Editor and special writer for the California Tech; Activities Section Editor of this year's Big T; UCC, Secretary and Pope — now uncelibate — of Dabney; Beaver; and President of Tau Beta Pi. Bill was also noted for the longest "milk-run" in Tech history—CIT to Tucson, Arizona. He will enter grad school this fall.

PHYSICS

Not Pictured

JOSEPH BOOKEE

Artist and student, Joe is a talented young man from Hollywood, California. He is noted for his work as 1950 art editor of the Big T and for his fabulous amplifier designs which defy analysis. A Blacker house member for three years, Bookee finally joined the ranks of the commuters his senior year, claiming the student house diet had broken his spirit.

WILLIAM A. DRAKE

Bill started here in his frosh year way back in 1945 but the Air Force snared him after the end of one year and he spent some unfortunate time as a corporal in the Air Force Air Communication Service. From Hollywood, Bill managed the track team for two years. As far as the future goes, he'll probably have to go to work.

ROBERT M. WALP

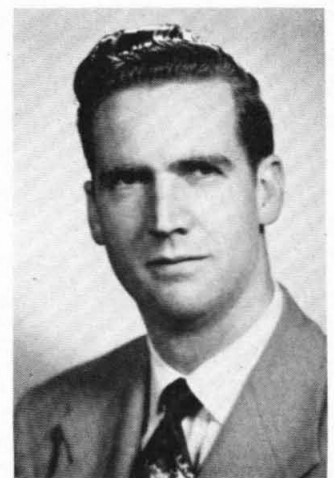
A physicist with experience is old Bob, having been to MIT, separated Uranium isotopes while at Oak Ridge and exploded A-Bombs as a Naval Electronics Technician. When not studying Smythe or commuting from Arcadia, he has spent time in the Radio, Physics, and Ski Clubs and has been Secretary-Treasurer of the Musicale. Bob looks somewhat apprehensively towards grad school and marriage.

ASTRONOMY



GEORGE ABELL

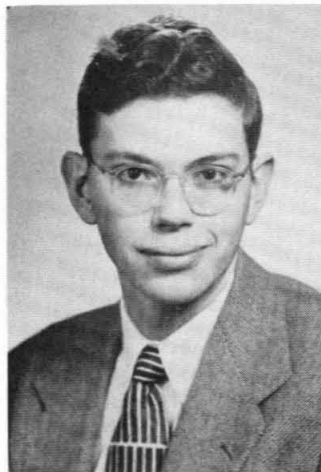
Fleming's astronomer extraordinary, the only one in the senior class, George divides his time between Tech and the Griffith Observatory. From Van Nuys, he wasted a little time in Japan, courtesy of the Air Force. Music is a major interest; he is music editor of the Tech, a Musicale member, and may be seen many a Thursday night leading the parade down to the symphony in L. A. President of the Drama Club, he plans to continue star gazing in grad school.



JOHN HOLMES

TBPi

John, the mad mathematician of Ricketts House, admits to the usual weaknesses of his option: poker, beer, chess, and reading the Racing Form. Not only this but he has a deviled interest in athletics, even plays golf for dear old Caltech. From Normal, Illinois, John says he plans to return there as soon as possible.



JOHN H. WALTER

One of the quieter Lemmings, John spent two very long years in the Navy fooling around with all sorts of electronic equipment between his frosh and sophomore years. From smoggy Los Angeles and a member of the Math Club, he plans a future at some grad school in the east.

MATHEMATICS

GEOPHYSICS

Not Pictured

GEORGE M. SAWYER

After becoming acquainted with rocks near his home in Mojave, affable George maintained his contact with Mother Earth by helping the Air Corps dig ditches in Alaska. He came to Tech 5 years ago for CE, switched to geology, and this year gets degrees in geology and geophysics. Served as VP of Geology Club and Chairman of Junior - Senior Prom. Biggest smile on campus and loudest voice should take him far. Hopes to develop his rose quartz claim.

EDWARD B. CRICHTON

HONOR KEY

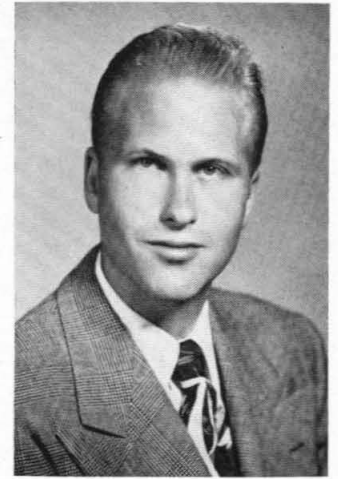
"Bermuda Bob," always in the center of activity, got Honor Key in frosh year, voted Big T Business Mgr. in soph year, Y Sec'y and Board of Control as a junior, and Y Prexy last year. His favorite pastimes include soccer, fencing, sailing, and flying. Future involves work in Mexico and perhaps India with the American Friends Service Committee.

RICHARD S. SHARP

Dick originally aspired to make the grade in physics but soon turned to the rock pile which distinguishes him as one of the few Geophysicists in the class. While preferring more years of academic freedom or second best a good job, Dick hopes that his expert knowledge of amplifiers will guarantee a desk spot with the Army.

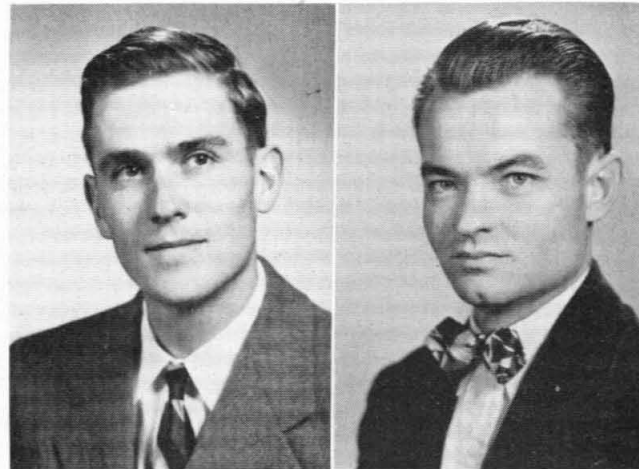


GEOLOGY



RAYMOND H. GREUTERT

From Glendale and originally off campus, Ray saw the light and soon moved to Blacker where he became athletic manager. Athletic manager of his junior class and Veep of the seniors, Ray was head Mudeo judge, served on the election committee, and is secretary-treasurer of the Geology Club. A PBAA member and sports writer for the Tech, he plans more school after the Navy and is interested in music and architecture.



BARRIE H. BIELER

Barrie hails from Altadena and came to Tech from across the street at PCC. He has a cultivated interest in geology and spends his spare time backpacking in the Sierras collecting minerals and taking 35mm slides. Interested in lapidary and the Orchestra rounded out his schedule. He hasn't had enough yet and plans to go on for his MS here.

DAVID DURHAM

Former secretary to the Rowdies, Dave is a ready source of biting repartee; a constant, incurable dooler 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 advice. Future rather uncertain.



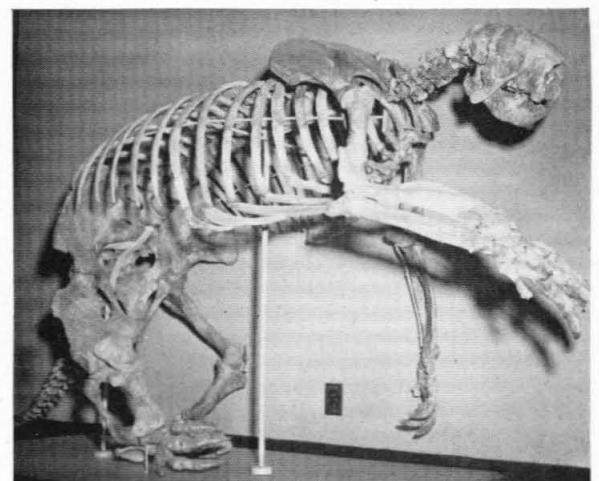
ROBERT G. BLAIR

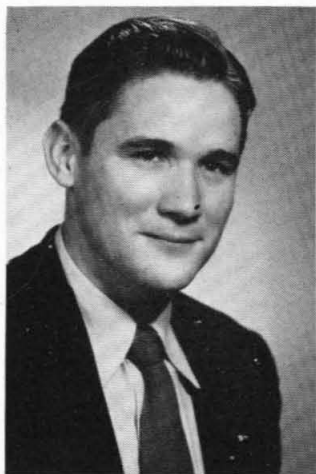
Bob found his way to Tech after 18 months of pencil pushing for the Army and two years at Chaffey College. Spent part of his time in Blacker and served as an Instituter. Always eager in the field, he hopes for a high paying position as a geologist, preferably in Colorado.



ROBERT E. COBB

Here on a General Petroleum Geology scholarship for the last year, Bob is probably one of the few to nourish an ulcer during finals week. Now secretary of the Beavers, he's been Election Committee chairman, class treasurer and Veep, Throop Club Athletic Manager and Secretary, and a member of the PBAA. Active for the California Tech and the Varsity Club, he has three varsity letters in cross-country and one in track. He plans to stay away from the Army.





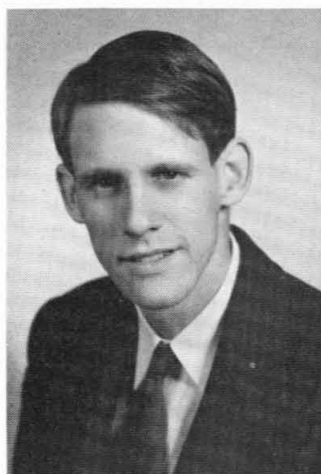
DALLAS T. PECK

T, TBPi, HONOR KEY Fleming's irreplaceable prexy and Geologist supreme, Dal could hardly wait out his term to marry Sue this last March. From Spokane, he lettered in football twice, was co-captain, and carried off the Wheaton Trophy. A Tau Bate, and a Beaver, he was prexy of his junior class. The Fleming waiter's union and the PBAA also enjoyed his talents. He plans to go to grad school here (geology, of course).

Not Pictured

RUBE KACHADOORIAN

Onetime Rickettsman, now practically a resident of Mudd, Rube is a native California from Fresno and Bakersfield Junior College. Saw duty with the Air Corps in the Mediterranean area, Europe. Content to sit back and enjoy life, wiles 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 engineering geologist.



JOHN ROGERS

TBPi

Johnny will always be remembered for his bridge. He wrote the column in the Tech, managed the interhouse bridge league, and at the drop of a hat, will freely discuss many an impossible hand. As a member of the Tech debating team, he's an able arguer and an even more able dispenser of sad stories. He also played basketball, both interhouse and varsity. A Tau Bate, he ardently wishes someone would start a vast school of geochemistry just for him.



RICHARD B. TAYLOR

TBPi

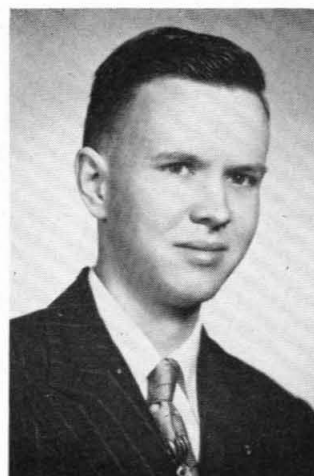
Ricketts Taubete Dick has been active through four years at Tech. Plans to go to grad school if Uncle Sam won't hold him back. He's an Interhouse athlete, Violinist nigh sublime, Orchestra, geology, bridge take up much of his time. Claremont claims him native son: quiet, amiable Dick. Perseverance, friendly ways, and hard work make this boy tick.

A P P L I E D C H E M I S T R Y

PAUL ARMSTRONG

T

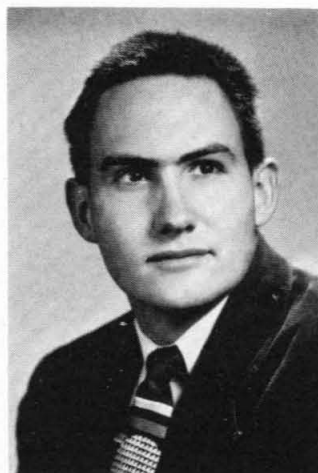
Paul, who originally came from San Gabriel, spent two years at Pomona College before coming to Tech. At Tech he has been active in interhouse sports and has been on the varsity water polo team for several years. He is also a member of the Throop club bridge team. Paul was thinking about joining the Navy after graduation, but in view of his recent engagement, plans may have been changed.



PAUL HELFREY

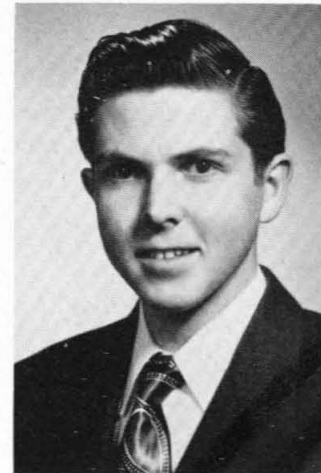
TBPi

Former Throop member from Montebello, Calif., Paul spent his senior year among the Rowdies. Active in the student chapter of the ACS, he also displayed his talents on the copy staff of the Tech. For enjoyment he engages in bull sessions and putters in gardens. If Uncle Sam overlooks him, Paul may be found doing his grad work on this campus next year.



RONALD T. CALDWELL

Luckily, Ron is a resident of that quaint but charming town, Tustin, Calif. As a member of the Rowdy faction and an amateur radio fiend, he found time to take active interest in Pasadena's Church organizations. He looks forward to marriage and a good job in Chem Engineering.

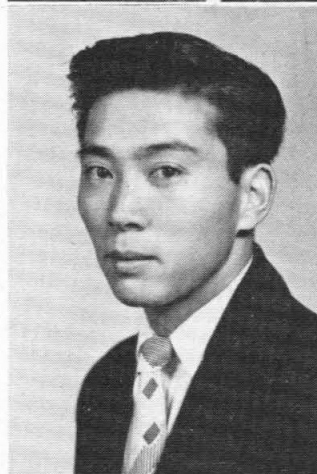


A P P L I E D



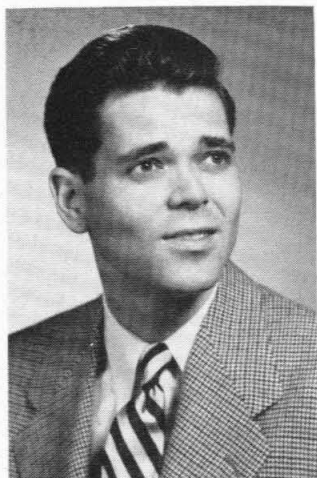
FRANK L. HOOPER

Frank's hometown is in Colon, Republic of Panama. Before coming to Tech as a sophomore, he spent two and a half years in the Army and a year at the Canal Zone Junior College. During his junior year, Frank married a local girl. On campus, he has played interhouse volleyball and football. After graduation, Frank wants to return to South America to work in industry.



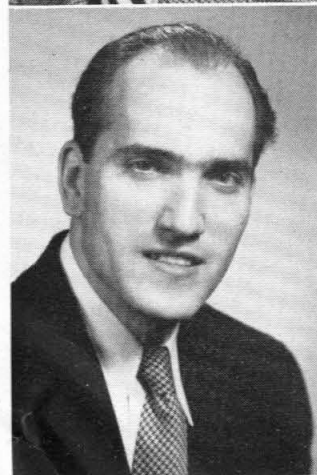
HIROSHI KAMEI

The jovial celery farmer from Garden Grove hopes to go on to grad school here at the monastery. Before coming here he did a hitch with the Medical Corps. Hiroshi was active in sports as a member of the frosh basketball and varsity track teams as well as numerous Blacker interhouse teams. He also found time to manage the funds for the Junior Class and Blacker House.



WILLIAM KELLEY

Bill, from Temple City, is one man who can tell you what is happening to the Caltech libraries or librarians, since he has worked for the library while attending Tech. Other activities on campus include Throop Club and the Chem Club. Bill plans on a secure future with the U. S. Army upon graduation. He does not mention whether this is his choice or his Uncle's.



ANTHONY MALANOSKI
HONOR KEY

Fleming's grand old man, UCC, and indispensable bouncer, Tony is Beaver prexy and holds an Honor Key. He divides his talents between the Big T, the California Tech, the Drama Club, and the Election Committee. Management of the basketball team, the Instituturs, and the PBAA take more time. He hopes the old bus'll take him as far away from the smog as is at all possible.

C H E M I S T R Y

DUANE NEVERMAN

T². HONOR KEY

Famed for his other attachment during the time he was the editor of the Little T, Duane made that attachment more permanent by marrying her last February. From Alhambra, and a Beaver, he has been Athletic Manager, Treasurer, and President of Throop Club. He spent one frosh and three varsity years on the baseball squad. He's another who is definitely Army bound.



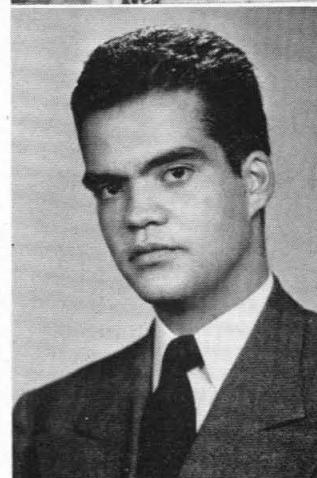
NEAL PINGS

Neal, one of the elite who knows the location of the Senior Bench, hails from far off Los Angeles. He has been active in the political machine at Tech, serving as the Junior and Senior representative on the Board of Control. Neal, a Beaver, has also participated in interhouse and varsity athletics, playing varsity football for two years. He plans graduate school at Tech.



SERGIO E. RODRIGUEZ

Rod's only regret in coming to Tech was his leaving a normal beach rat's existence in Puerto Rico. He maintained a well rounded life in Pasadena by studying, and in supporting the Rowdies IH sport program. For a while it will be grad school, but he will be chafing at the bit for the lethargic Caribbean life.



KAZUHIKO SATO

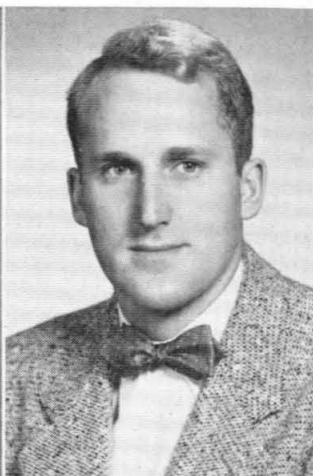
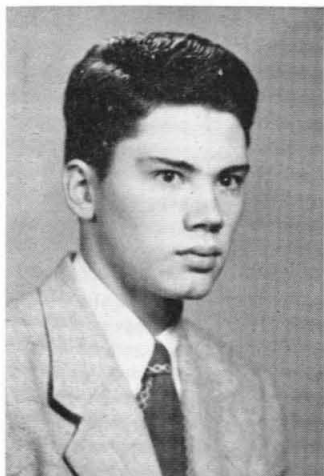
TBPi

Sato, the suave, quiet average raiser, originally came from Pasadena. Before coming to Tech however, he had the opportunity of accompanying the Government on a paid trip to the Gila River War Relocation Center in Arizona. From there he returned to Pasadena, went to PCC, and then to Tech. At Tech, he has been a member of Throop club. He plans graduate school here in Chem. Engineering.



CHARLES J. BATES

Leading light and loudest mouth of the Blacker Bowtie Brigade and Bird Watching Society (who also serve meals on the outside), C. J. has managed to get a finger into most of the goings-on at Tech including sports, both interhouse and varsity, Glee Club, Band, Sec-Treas. of Biology Club, and (cryptically) Cook of Kerckhoff Country Club. Originally from Belmont, Mass., Charley claims Santa Monica as home now.



THORNE J. BUTLER

T. J. finally found his way to CIT via Hawaii and New Hampshire. He tried to make his stamp on the athletic front by lettering in basketball and tennis while sports editing the Calif. Tech. Generally famous for a hook shot, "Buttin' In," and a huge, black convertible. He saw the "light" in changing from ME to biology and hopes to make medicine a career.

JAMES A. ENSLOW

Jim, Ricketts Vice Prexy, comes from Shorewood, Wisconsin, where he originally got his thirst for biology by watching frogs spawn in local pools. A true water dog, he played water polo and managed the swimming team. He plans grad school, then into competition with Turttox (Biological Supply House).



Not Pictured

CARL HILDEBRAND

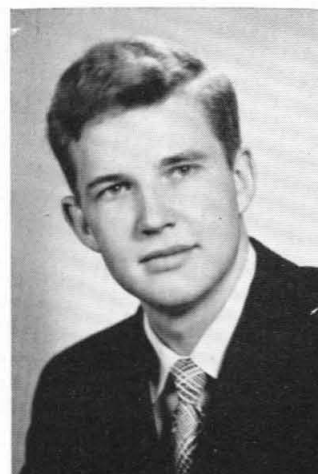
Carl calls Pasadena his home although he has spent most of his life in the Philippines. Before coming to Tech, he spent 2½ years in the Navy. Carl took part in Frosh football, and was Vice President of the Soph class. His other activities included a summer putting out the Little T. Carl was active in the Caltech Christian Fellowship, and intends to prepare for the ministry.

HARRY P. RAPPAPORT

"Smiling Harry," one of Tech's many local boys, came to Millikan's Monastery after a regrettable hitch in Japan. His cynicism and sarcasm have been the biologists' delight. A desire to apply quantum mechanics to biology and a vehement hope that everyone will experience Army life are Harry's aspirations for the dismal future.

EDWIN A. MATZNER

See Chemistry

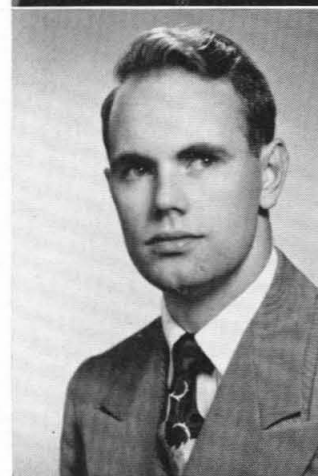
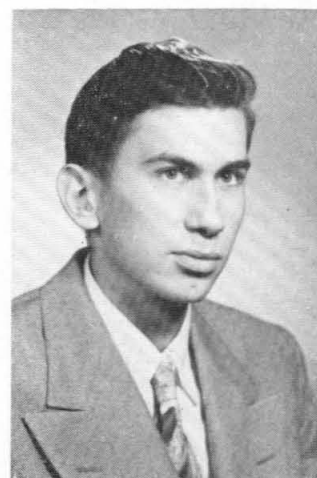


CARL HIRSH

Carl hails from Huntington Park, but he went to high school at the Webb School. He has his frosh numeral in football, and was active on the "Y" cabinet. He wants to go to Medical School and hopes it will not be after a course in Uncle Sam's Grad School.

DONALD A. VOGEL

Don lists both Sheboygan, Wisconsin, and Glendale as home towns, and was at one time an exponent of the good clean life, managing the Dabney Shirt-shredding service. He was sure to be seen at every Dabney beach party among fellow sun worshippers, and his future plans call for work somewhere in the field of Biochemistry.



RAYMOND SJODIN

Ray came to CIT from South Gate by way of an eighteen month tour of duty with Uncle Sam. On his way to Medical School he will take time to acquire a wife. Ray was vice president of the Christian Fellowship while he carried out his program here.





ROBERT G. ADLER

Bob came to us as a junior after two years at Chaffey Junior College. From nearby Upland, Bob lists the Musicale, the Caltech Christian Fellowship, and the Chemistry Club as his main interests. A member of Throop Club as a junior, he transferred his allegiance to Fleming for the last year. The future may hold, draft permitting, grad work.

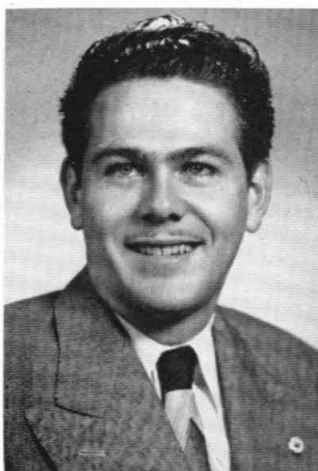


RICHARD BREWER

Dick had the fortune of attending "the cinema school, Hollywood High" before coming to Tech, and while here numeralled in frosh basketball and was a mainstay on the Darbs' IH teams. With the outside diversifications of folk-dancing, mountain climbing, and the Musicale "Car'nal Dick" livened up his Caltech sojourn. He plans on grad school—eventually.

ROBERT F. CONNELLY

After spending some time in the chair corps of the Air Force, Pop Connelly came to these Ivy Halls in forty-seven. An active Throop Club member, he will long be remembered by the frosh who pledged under him. His time at the institute has been divided between his studies and family life. He plans to become acquainted with his family again upon graduation.



JAMES DENTON

Jim is one of the big guns in the potent Throop club bridge team. He has also been an active member in things musical on the campus; these include the Band, Glee Club, Orchestra and Musical. He is currently a member of the Pasadena Civic Symphony. Jim, a native Santa Barbaran, plans graduate school at Tech.

CHEMISTRY



Not Pictured

CARL ANDERSON

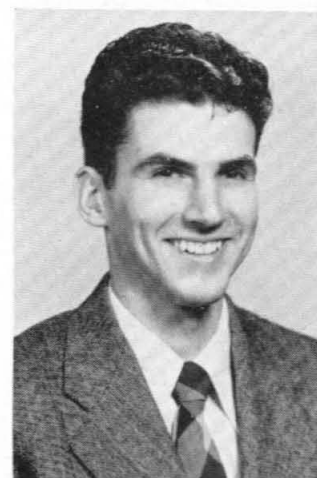
Carl can be seen playing bridge at all hours in Fleming lounge. A definite bridge fiend, he has participated on both interhouse and intercollegiate teams. Here from Oildale by means of a four year Pepsi Cola scholarship, Carl dabbled in cross-country and was class editor of the '49 Big T. A member of the Chem and Biology clubs, he looks forward to the soft life of a chemist upon graduation.

JOHN ELDER

John, who almost developed into a fixture at the Green Lake, is one of the Southland mob at Tech. While originally aspiring to be a mathematician, he ended up as one of the elite chemist's corps. A man of many talents, John hit the jackpot in the Athenaeum bookmaking scandal. While depressing a desire to become a beach boy, he will work in industry.

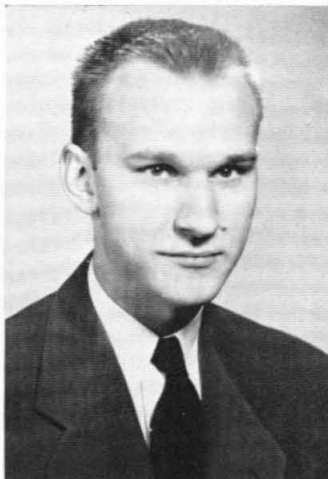
LAWRENCE DYER

Never caught with his puns down, Larry's subtle wit never fails to amuse. He switched his loyalties from Throop to Ricketts, in whose lounge he spent many a long night snaking (English, no less) before slithering to his room. Hailing from L. A., he exercised his smog-coated lungs in the Debate Club. Plans include work in Chemical Industry, then grad school.



ERNEST DZENDOLET

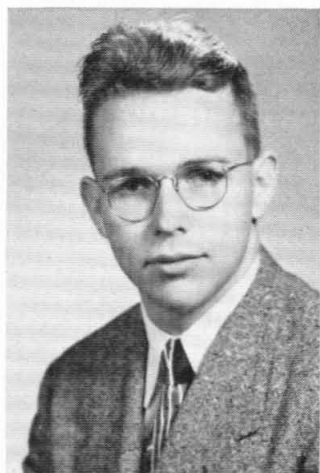
Gracing the Ricketts House minutes with his clever wit, Ernie is also noted for his incredibly negligible coiffure. Hailing from Cambridge, Mass., he served in the U. S. Air Force. Also famed as a waiter extraordinaire, he is justly proud of his fine photographic work, and has also been active in the Art class. About future plans, to quote Ernie: "?"



JAMES A. IBERS

TBPi

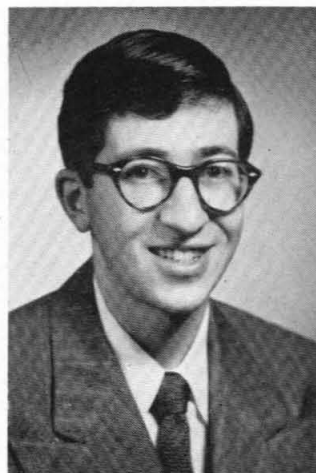
The mad alchemist spent most of his freshman and sophomore years fouling up physics labs, but still he managed to gather himself together sufficiently to get into TBP, and engaged. Four years of it weren't enough, so Jim plans to go on to grad school. An L. A. product, he plays poker in Throop Club and goes on dates for entertainment.



TAYLOR JOYNER

T

Always around when there's a little work to be done, Taylor's another hometowneer from Los Angeles. Very much I-A now, he hopes to go to grad school as a chemist "eventually." Taylor was always a loyal member and supporter of Fleming's Big Red Teams. He played frosh and varsity football for four long years and just loved the tough going. He lists the Caltech Christian Fellowship as yet another interest.



ROBERT KURLAND

HONOR KEY, TBPi

The man of many options, Bob from fabulous Beverly Hills, was also a man of many activities. He held the offices of Faculty editor, '50 Big T; reporter, feature editor, managing editor and just plain editor of that "noble experiment," the California Tech. The Beavers, Tau Bates, cross-country, and the Red-belly League also claimed his membership. After graduation grad work in P-Chem at Harvard or Cornell.

EDWIN A. MATZNER

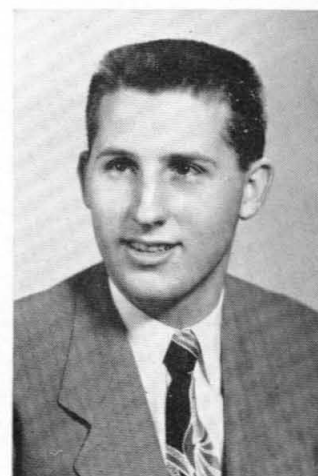
Ed went to high school in the shade of the pyramids in his home town, Cairo, Egypt. While taking two majors, he found time to be one of the shining lights of Fleming House as well as a member of the Chem and Biology Clubs, and the California Tech. Ed plans Medical School when he leaves.



ULRICH MERTEN

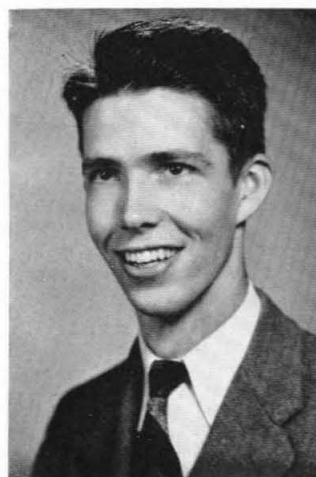
T. TBPi, HONOR KEY

ASCIT Prexy, ass't and head yell-leader, Rowdy Librarian; debater and ???, he has won four gavels; member of Beavers; frosh football and swimming (numeral), and Varsity swimming and cross-country (letter) —these are a few of Mert's many achievements. Native of Houston, Texas, Mert and Texas are both proud of each other. Plans grad school.



HOWARD T. MOWER

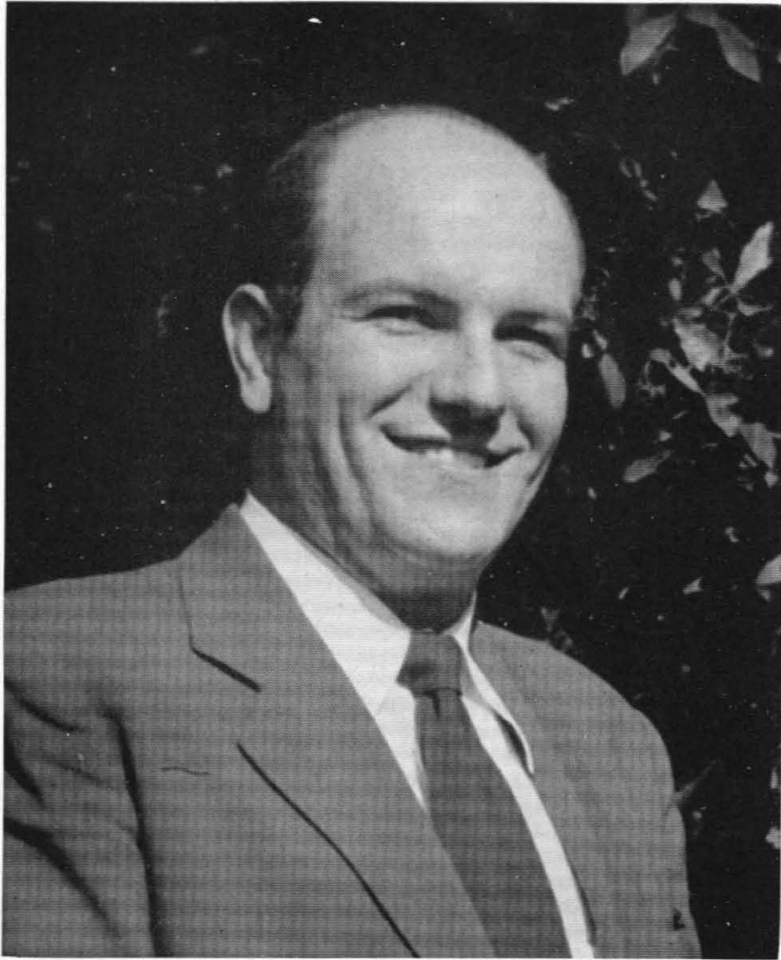
The fact that Howie has taken almost all the available electives in chemistry earns him the title of "Der Chemiker." Furthermore, he was manager of the football team last year and has been seen at most of the ASCIT and Throop socials. Howie boasts of the unique ambition of doing anything but getting into the Army.



CHARLES M. STEESE JR.

HONOR KEY

A Beaver, Charlie hails from Arkansas. He played baseball for one year, won a frosh track numeral, and ran cross-country for three years. The Big T activities editor in 1949-50, he was also copy chief of the Tech in 1949-50, managing editor in 1950, and business manager this last year. For the future, he plans grad school with certain forebodings as to what could happen in the mean time.



FRANK LANG—PRESIDENT

JUNIOR CLASS

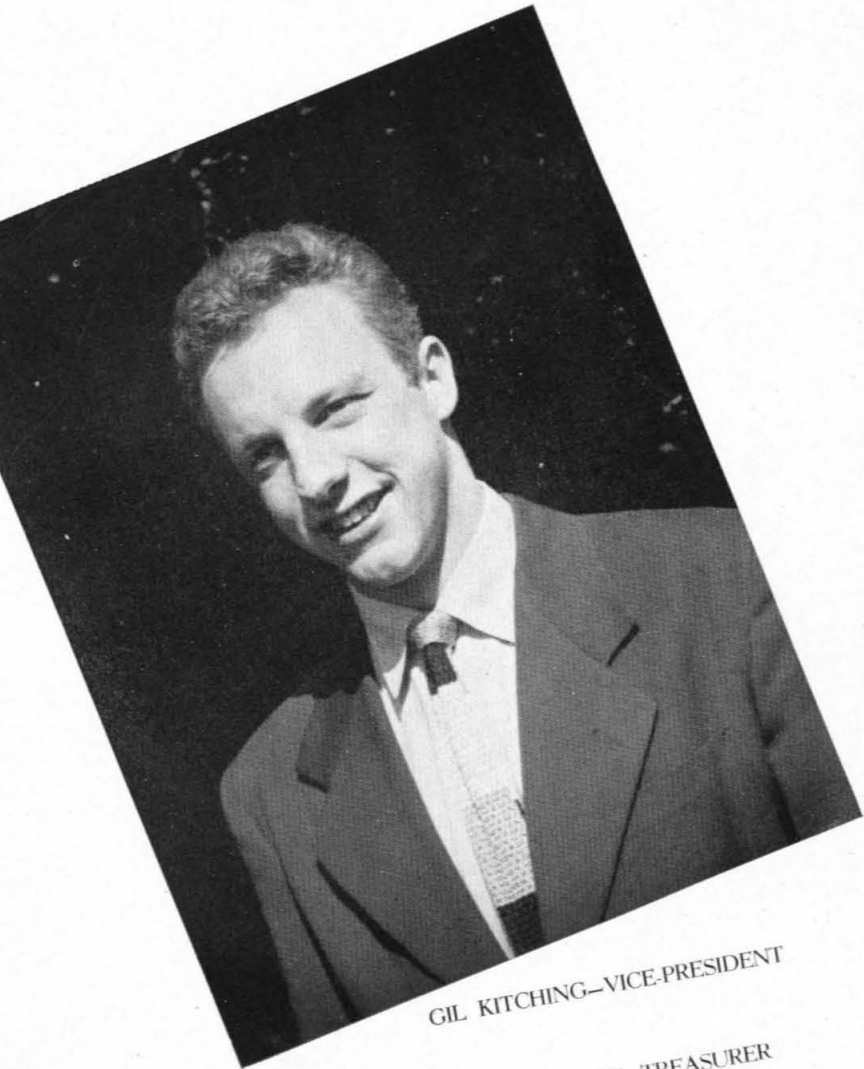
Noted for an amazing range of performance during the last year, the Class of '52 can look with pride upon the athletic prowess of Karasawa and Gray, Pilkington and Parnes; or upon the intellectual mettle of Kamb and Einwohner; or upon the political sagacity of Groner and Hanna. Creative aspects of student activities lay in the hands of Boppart and Engholm, who have piloted this year's Big T, and of Frank Ludwig, who completely renovated and revitalized the Friday assembly program.

The draft scare, as well as the increasingly difficult burden of studies, caused several of the Junior Class to bid farewell to the ranks, but in spite of these losses Norm Gray, the Athletic Manager, unified the talent available to bag a 60-57½ win in the interclass track meet.

As President, Frank Lang performed an admirable job of leading the class, though it's suspected that he also led on the campus co-eds with his curly golden locks. Babe Karasawa as Veep and Barclay Kamb as Secretary were also conscientious workers; and, now hunted by the Internal Revenue Department, Treasurer Gil Kitching managed the funds "interestingly."

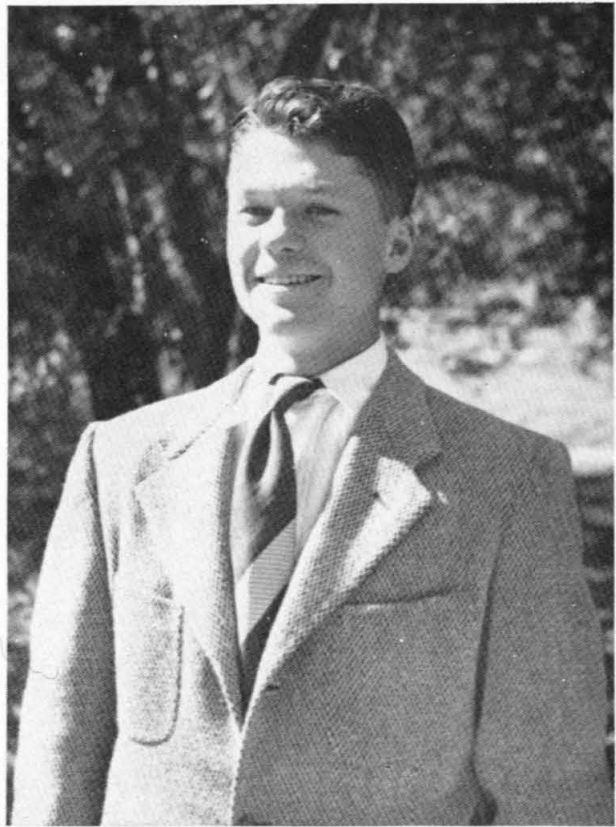
Biggest events of the year were the Mudeo, which was refereed by a few unfortunate Juniors, the gala Garden Party in May, and the memorable Junior-Senior Prom on Graduation night.





GIL KITCHING—VICE-PRESIDENT

NORMAN GRAY—TREASURER



BARCLAY KAMB—SECRETARY

BABE KARASAWA—ATHLETIC MANAGER





JIM LATOURRETTE—PRESIDENT

Under the leadership of President Jim Latourrette, the sophomore class returned en masse for their second year at Tech, to battle not only ME5, Swift, and the like, but also the indecisions of Uncle Sam. The year got off to a poor start when the lowly Frosh barely managed to eke out a decision over the Sophs in the annual "who makes the best colloidal argillaceous Homo sapien" contest. Although the Frosh did win, it was noted that of the 55 precipitating Frosh, only 32 came out of solution. A good time was had by all attending the Frosh-Soph dance including a rather small number of Sophs.

The mighty class of '53 took a close second in the interclass track meet winning the 440, 100, the low hurdles, and the relay. A beach party was held in the third term to finish out the year's activities.

President Latourrette was assisted by vice-president Dave Stevens, secretary-treasurer Angel Ottati and athletic manager John Gee.

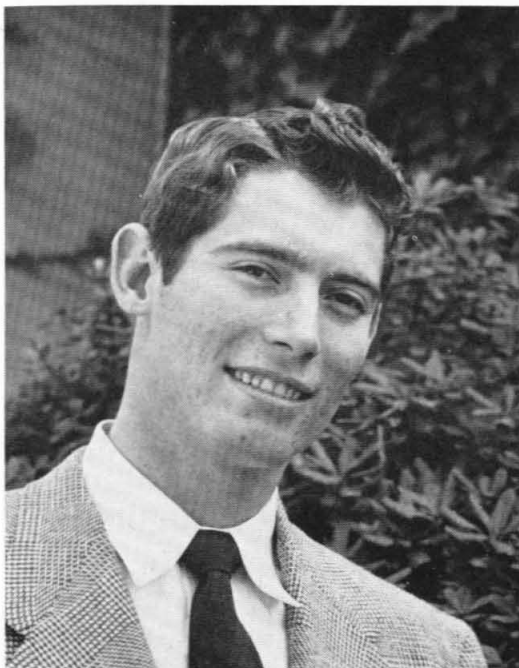


SOPHOMORE CLASS

DAVID STEVENS—VICE-PRESIDENT



ANGEL OTTATI—SECRETARY-TREASURER



JOHN GEE—ATHLETIC MANAGER



LEE HENDERSON—PRESIDENT

The class of 1954 is outstanding in both its own character and the way in which it came into being. From its first moments at Freshmen Camp the class has shown high spirit and ability. Led by President "Moose" Henderson, it quickly showed itself to be a valuable part of the student body. After enduring the traditional week of humiliating initiation by the Sophomores, the indomitable class of '54 toppled the Soph dignity, as they splashed to an overwhelming victory in the Mudeo. They became the first Frosh since the war to win this classic.

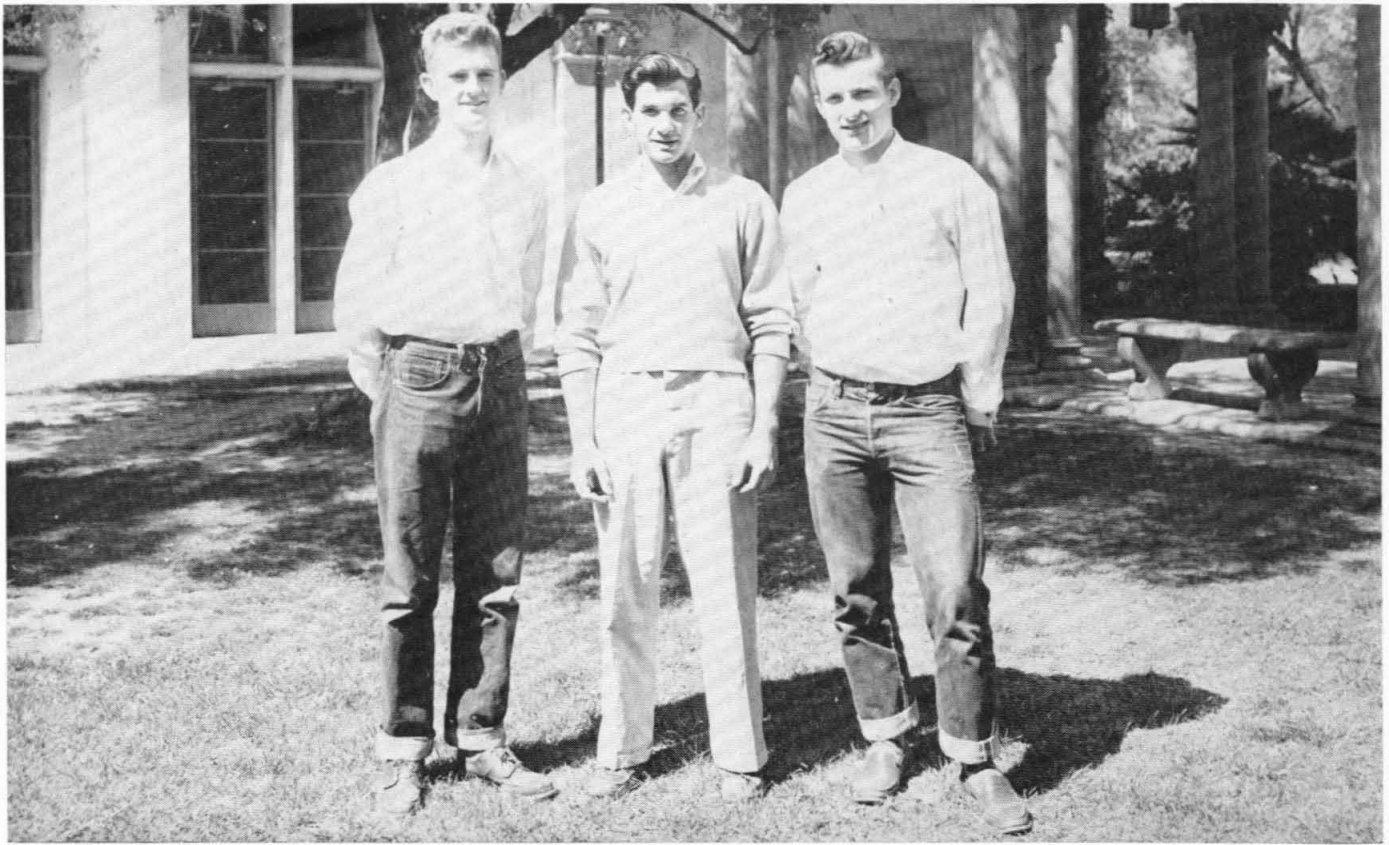
High athletic and social interests were evident. There were many who fought hard on the grids of football and in soccer during the fall and who made up a promising basketball squad and track and baseball teams in the winter and spring. The social calendar was crammed with successful mountain, snow, and beach parties in the three terms respectively, plus several exchange dances with Oxy, Scripps, et al.

This is the first class in Caltech history to enter on the basis of other than Caltech exams, and its work is hence a cause of much interest. Judging, however, by the record of extracurricular prominence and academic success, the experiment has been fruitful.

F
R
E
S
H
M
A
N

C
L
A
S
S





JOHN PEYTON, BRUCE KAISER, STAN OGDEN

Elected Officers: JOHN KIDDER, Vice-President; SAM VODOPIA, Treasurer; GEORGE JOHNSTON, Secretary; BRUCE KAISER, Athletic Manager







ACTIVITIES



ULRICH MERTEN—PRESIDENT

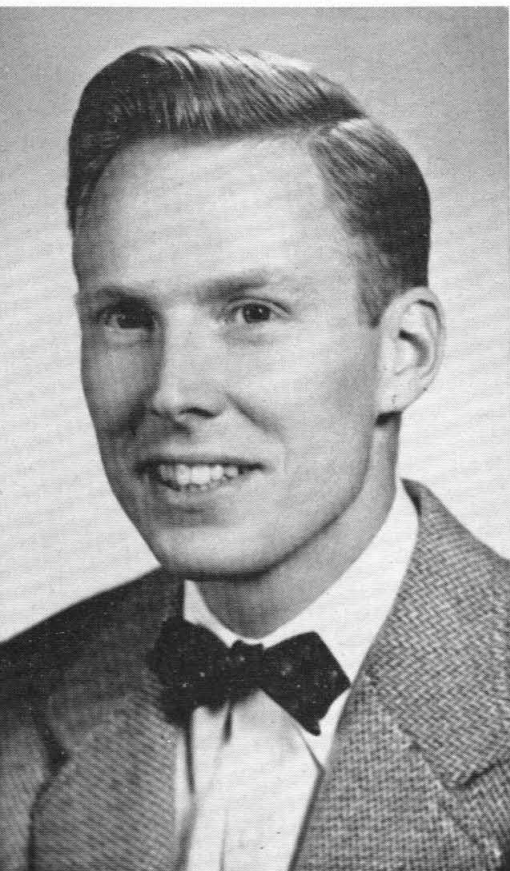


ART CUSE—FIRST REP

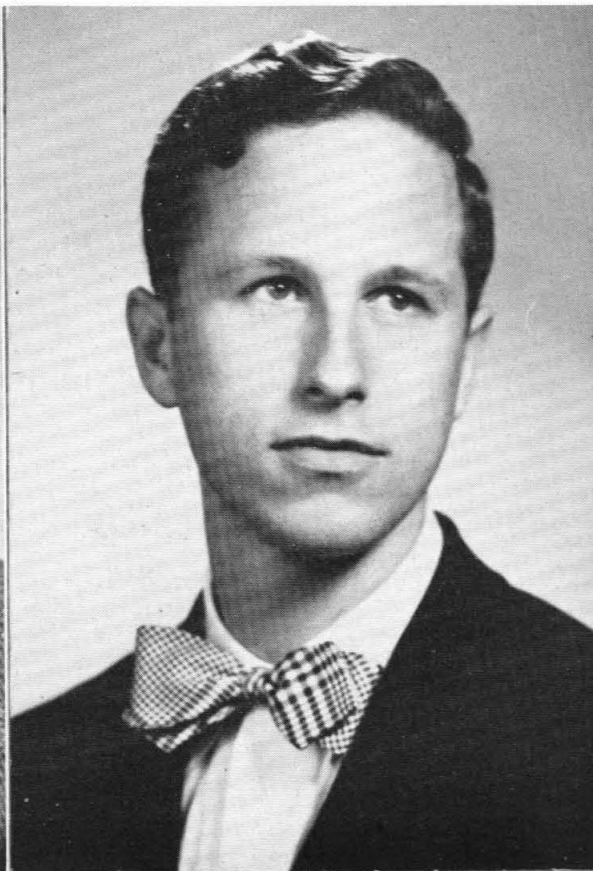
Not Pictured: PATRICK FAZIO—SECOND REP

ASCIT

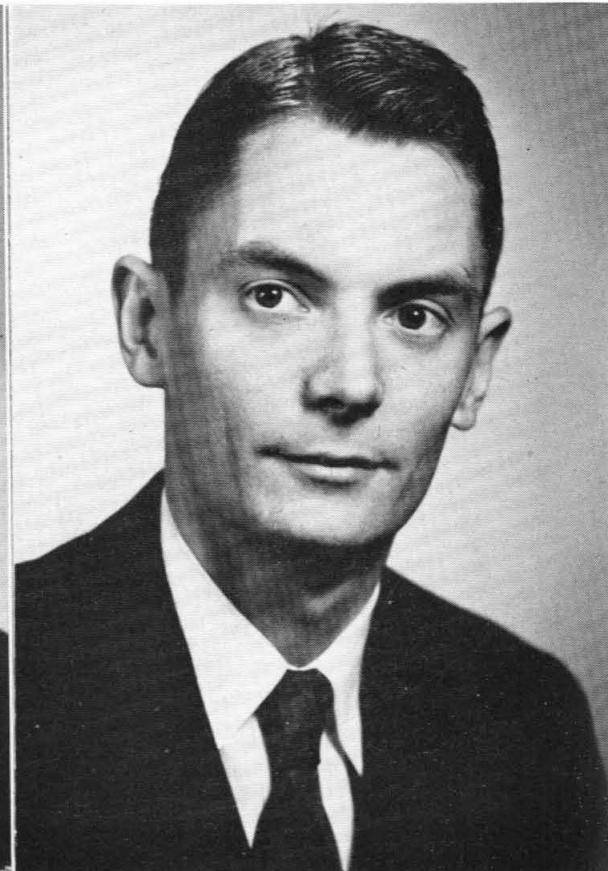
OLIVER GARDNER—VICE-PRESIDENT



STAN GRONER—SECRETARY



PETER MASON—TREASURER

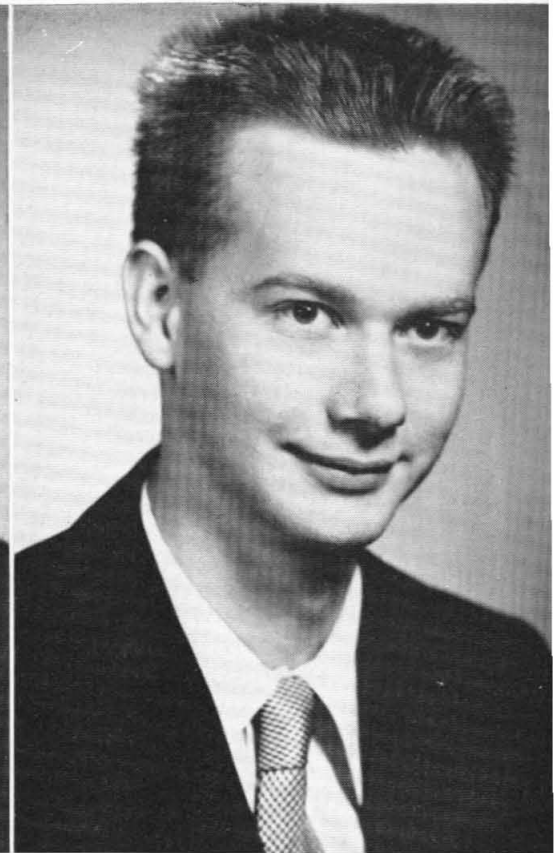




ROBERT STANAWAY—PUBLICITY MANAGER



DAVID HANNA—ATHLETIC MANAGER



FRANK LUDWIG—RALLY COMMISSIONER

BOARD OF DIRECTORS





LOURIE, WATKINS, MERTEN, RICHTER, ROSS, SALKELD, PECK, PINGS, GARDNER, GRONER

BOARD OF CONTROL

The Honor System at Caltech is an institution perpetuated by the whole-hearted cooperation of the Student Body, and the efforts of the Board of Control. This system is responsible for our examinations without proctors and a genuine honesty in all phases of student life which is paralleled in very few colleges. Passing judgment on violations of our Honor System may be the primary duty of the board, but education of the student concerning the advantages of the system, along with outlining the precedent set down by past boards, has taken an important position in the duties of the board. Along this line, Olly Gardner, capable leader of the board, has done much in clarifying its position on many borderline situations which often arise. The wish of the board has been to make explanation of our system their primary interest and passing on violations a necessary duty.



PRESIDENT-ELECT DAVE HANNA

NEW OFFICERS

Front: GEE, HANNA, CALLAGHAN, LATOURRETTE
Back: KARASAWA, BILLINGS, BOPPART, KITCHING, WATKINS





GREUTERT, STEWART, MALANOSKI, STEESE, COBB

ELECTION COMMITTEE

PUBLICITY COMMITTEE



McEWING, HEFNER, WELCH, DANIELS,
JONES, STANAWAY



LUDWIG, CALLAGHAN, CRAMER, KIDDER, LATOURRETTE, ORVILLE, BAGGERLY

RALLY COMMITTEE

LITTLE T



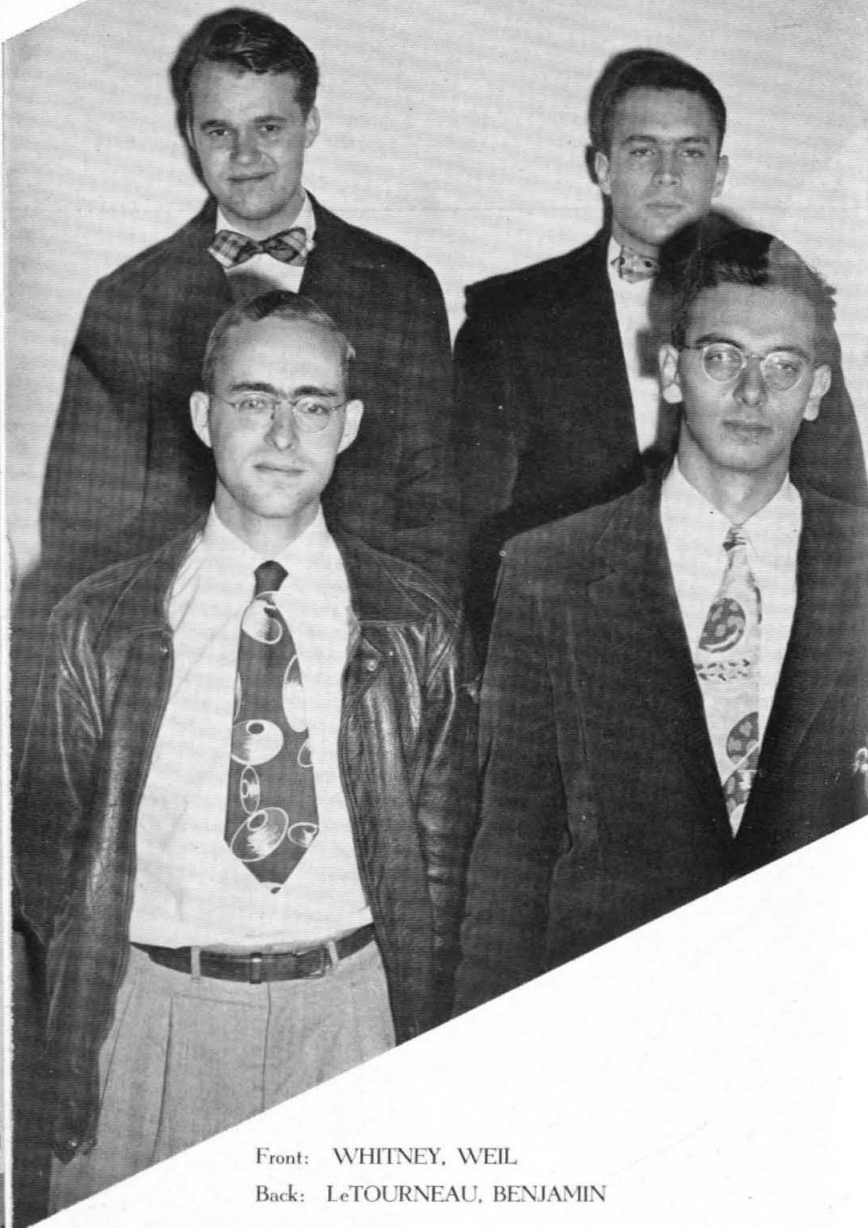
DUANE NEVERMAN—EDITOR OF THE LITTLE T



BOB KURLAND—EDITOR-IN-CHIEF

CALIFORNIA TECH

BUDD LeTOURNEAU,
NEWS EDITOR



Front: WHITNEY, WEIL

Back: LeTOURNEAU, BENJAMIN

BARNEY ENGHOLM,
MANAGING EDITOR



CHARLES STEESE, BUSINESS MANAGER
RICHARD WHITE

Back Row: RATNEY, WILSON, BURGER, WHITNEY, WEIL, HESTER, ENGHOLM, CROSBY,
BUTLER, ROGERS, MALANOSKI, KURLAND

Seated: HELFREY, BRYAN, CONNOLLY, ABELL, WELCH, VARTANIAN, LeTOURNEAU, BENJAMIN



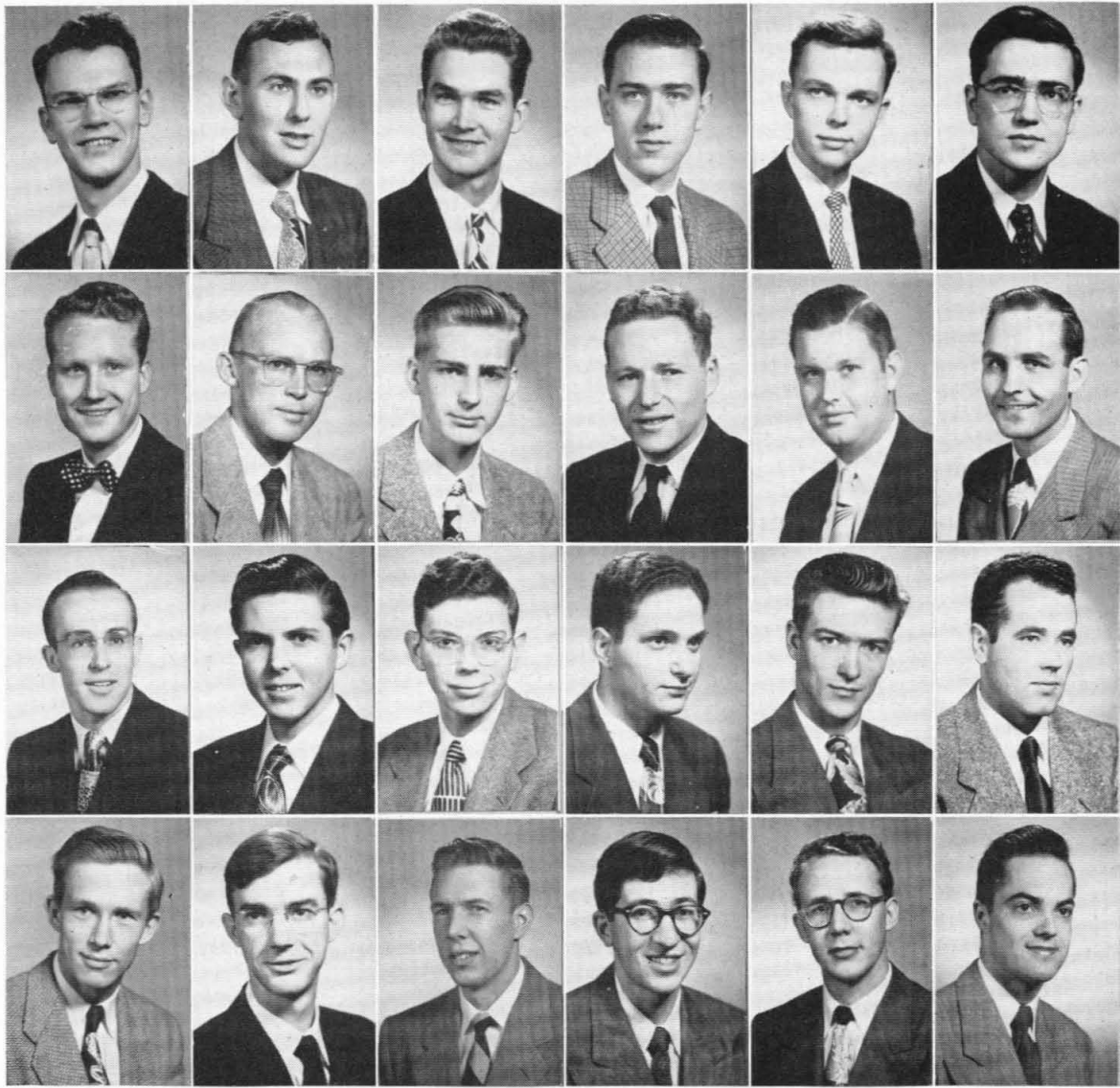
THE BIG



BARNEY ENGHOLM and JOHN BOPPART—CO-EDITORS



RICHARD WHITE—BUSINESS MANAGER



BAGGERLY, BASIN, BEEBE, BEMIS, BOPPART, BJERKLIE
 BUMB, COVEY, DAVIS, EINWOHNER, EISEN, GOODMAN
 GRAY, HELFREY, HOLMES, IVERS, ISRAELSON, JACKSON
 JOHNSTON, A., JOHNSTON, J., JONES, KURLAND, LAYTON, LEMAY

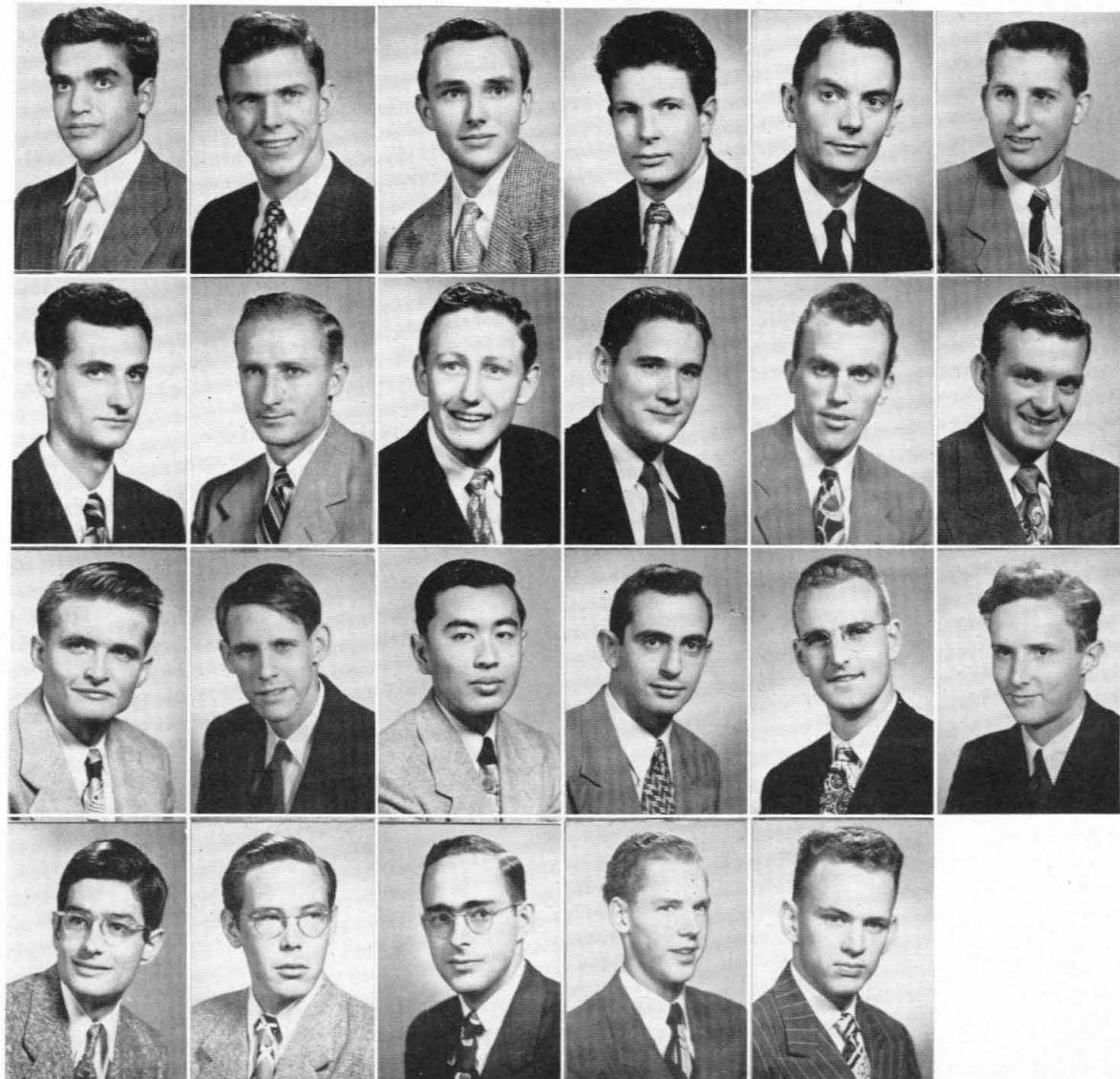


TAU BETA PI



Front: BJERKLIE, WHITNEY, TAYLOR
 Back: IBERS, KURLAND

LEVY, LIBBEY, McCOOL, McQUISTON, MASON, MERTEN
 MILLER, OLIVER, PARDEE, PECK, PERAULT, PRESTON
 RIGGS, ROGERS, SATO, STERN, SWEET, TAYLOR
 TRILLING, VERDIER, WHITNEY, WINSOR, WRIGHT



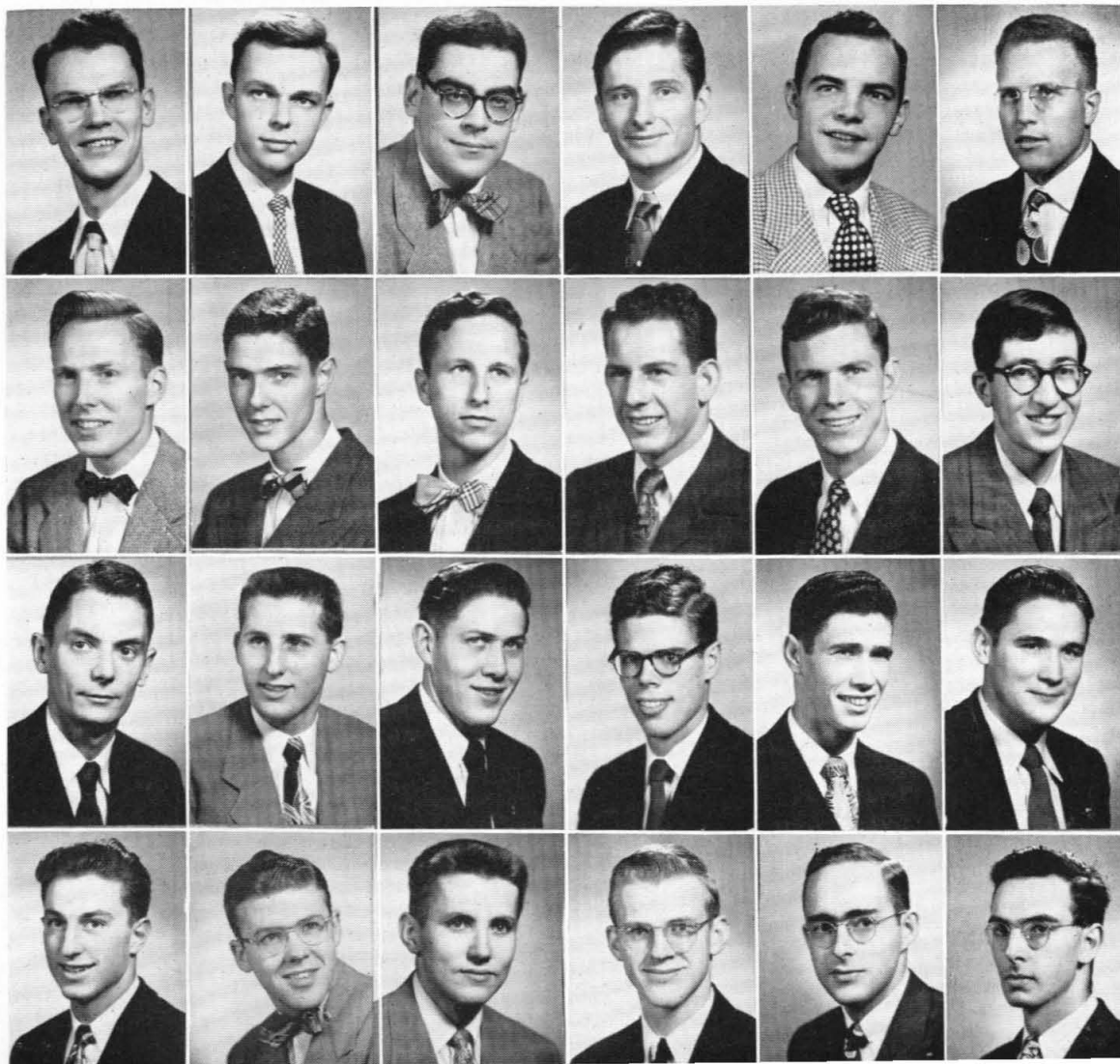


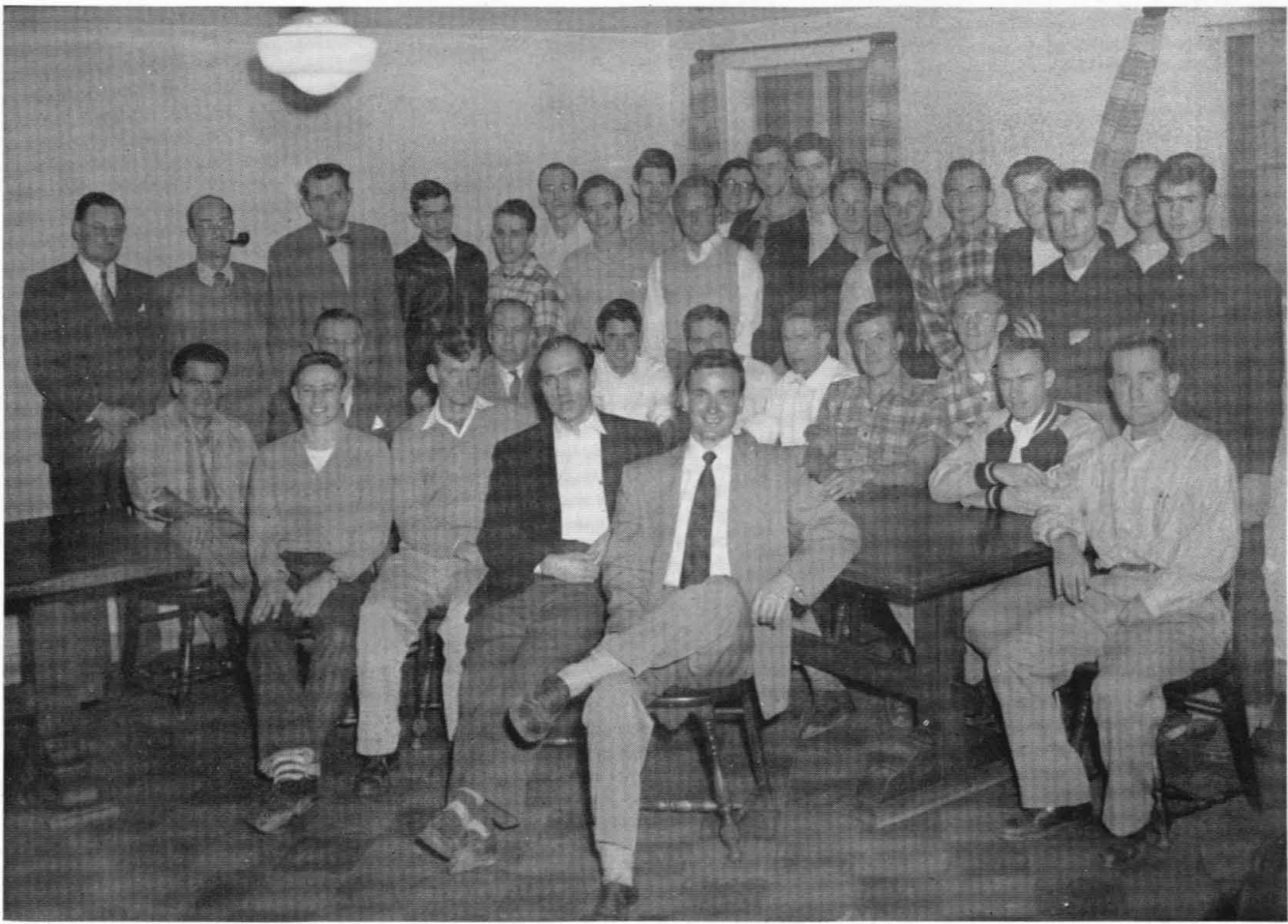
GARDNER, CUSE; FAZIO NOT PICTURED



HONOR KEYS

BAGGERLY, BOPPART, CUSE, DAILY, ENGHOLM, FEE
 GARDNER, GOERKE, GRONER, HANNA, LIBBEY, KURLAND
 MASON, MERTON, NEVERMAN, ORVILLE, PARNES, PECK
 SCHMID, STANAWAY, STRATTON, TAUTZ, WHITNEY, WEIL





Back Row: JAHNS, STRONG, LINDVALL, SNIDER, FAZIO, GRAY, LATOURRETTE, STEESE, FEE, KURLAND, LIBBEY, GOERKE, GRONER, MASON, ENGHOLM, NEVERMAN, STRATTON, WHITNEY, STEFANIDES
Seated: KATCHADOORIAN, COBB, EATON, PRESTON, JONES, MALANOSKI, HEFNER, BRADLEY, PECK, JONES, NOBLE, TAUTZ, PFEIFFER, PINGS

BEAVERS

The Beavers, campus honor and service organization, started off the year in the spring with an initiation of the new members at the home of Dr. DuBridge. Several weeks later the annual beach party was held at Emerald Bay.

In the fall, activity began early on the three perennial Beaver projects. Management of the New Student Camp was carried out successfully, most of the organizational work having been completed the previous spring. The Guide Service, under the direction of Kent Stratton, was extended beyond its normal activities, and contributed greatly to the success of Student's Day. In continuation of the program inaugurated the previous year, informative talks were given to more than twenty-five high schools in Southern California to stimulate interest in a Caltech education.

The evening meetings of the Beavers, held at faculty members' homes one night each month, were particularly valuable in bringing mutual problems to the fore. The membership of both student leaders and faculty members in the organization makes it an especially good liason between the two groups.

The Executive Committee, consisting of Tony Malanoski, president; Noel Reed, vice-president; Bob Cobb, secretary; Howard Preston, treasurer; was ably assisted by Dr. Paul, the faculty advisor of the Beavers.

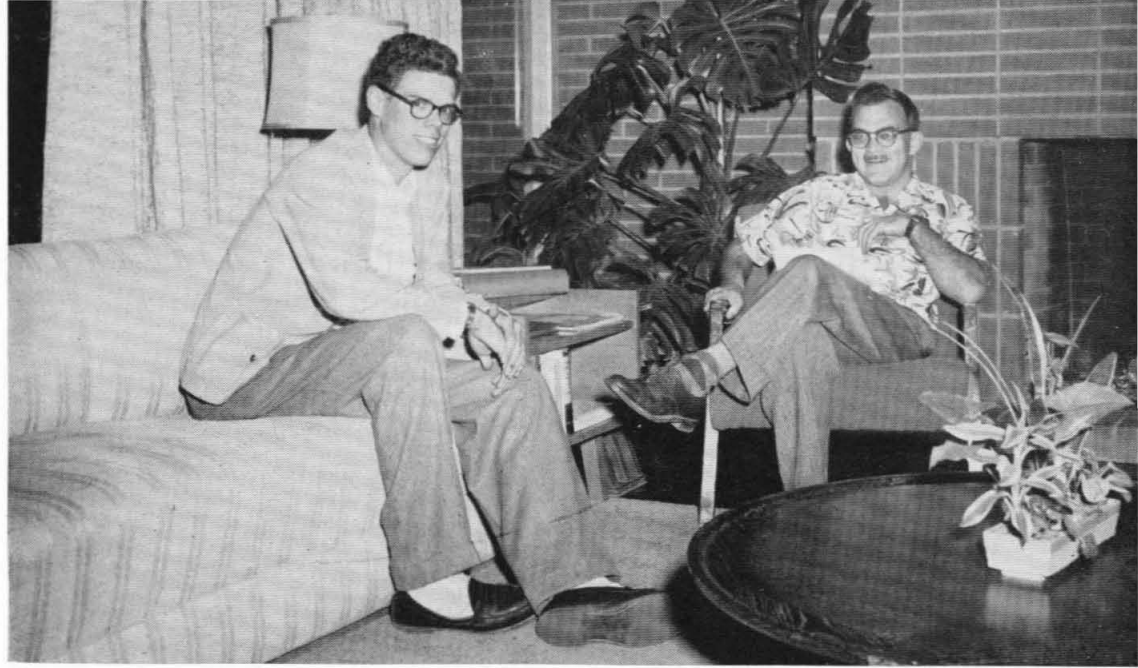


Front: REED, MALANOSKI

Back: COBB, PRESTON



New President Phil Orville
with Wes Hershey



YMCA

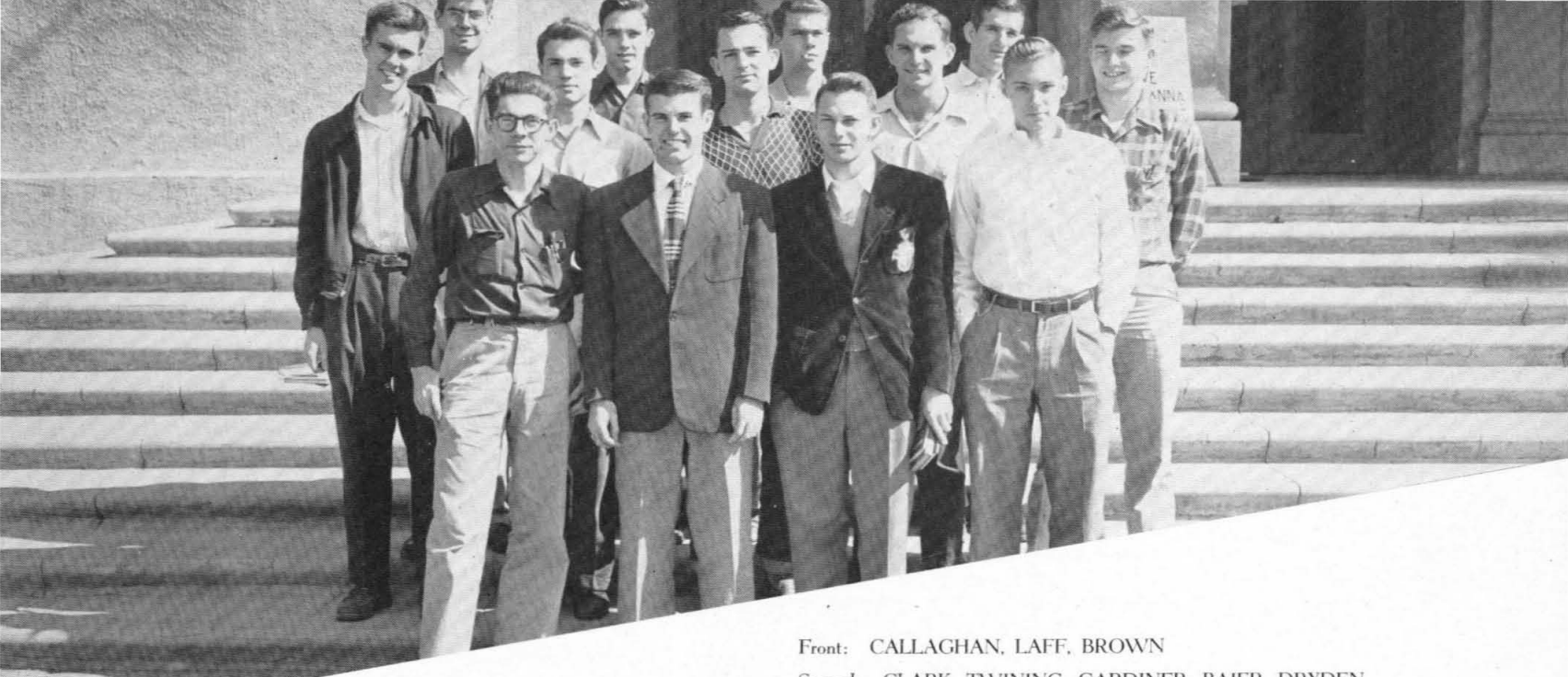
President Dick Libbey, assisted by VP John Boppert, Secretary Phil Orville, Treasurer Leo Baggerly, National Representative Mike Bader, and Publicity Manager Tom Stockbrand, led the Caltech Y through another successful year. Early in the fall the Cabinet retired to Board member Stan Johnson's beach house at Laguna to plot the Y's course for the year, and came up with a program notable for its wide range of interests and its emphasis on living Christianity. The Y kept up its familiar book exchange and loan services, and sponsored several well-attended forums on music, modern art, and contemporary architecture. Christmas vacation saw a large and enthusiastic group of Tech men off to the Asilomar Conference for five days of fun and inspiration. The annual Y spring finance drive fell just short of its goal this year, but the sharply reduced number of students more than accounted for the deficit.

The big event of the Y's year was the completion of the new residence, located half a block north of the campus on Holliston. This beautiful modernistic structure provides housing for Executive Secretary Wes Hershey and his family, and is used for many Y events, such as evening discussion groups, cabinet meetings, and forums. New officers for the coming year are Phil Orville, President; Barney Engholm, Vice-President; John Marion, Secretary; Carl Larson, Treasurer; Mike Lourie, National Representative, and Irwin Rubenstein, Publicity Manager.



Front: CHUAN, LIBBEY,
BAGGERLY, HERSHEY

Back: BADER, BOPPART,
STOCKEBRAND

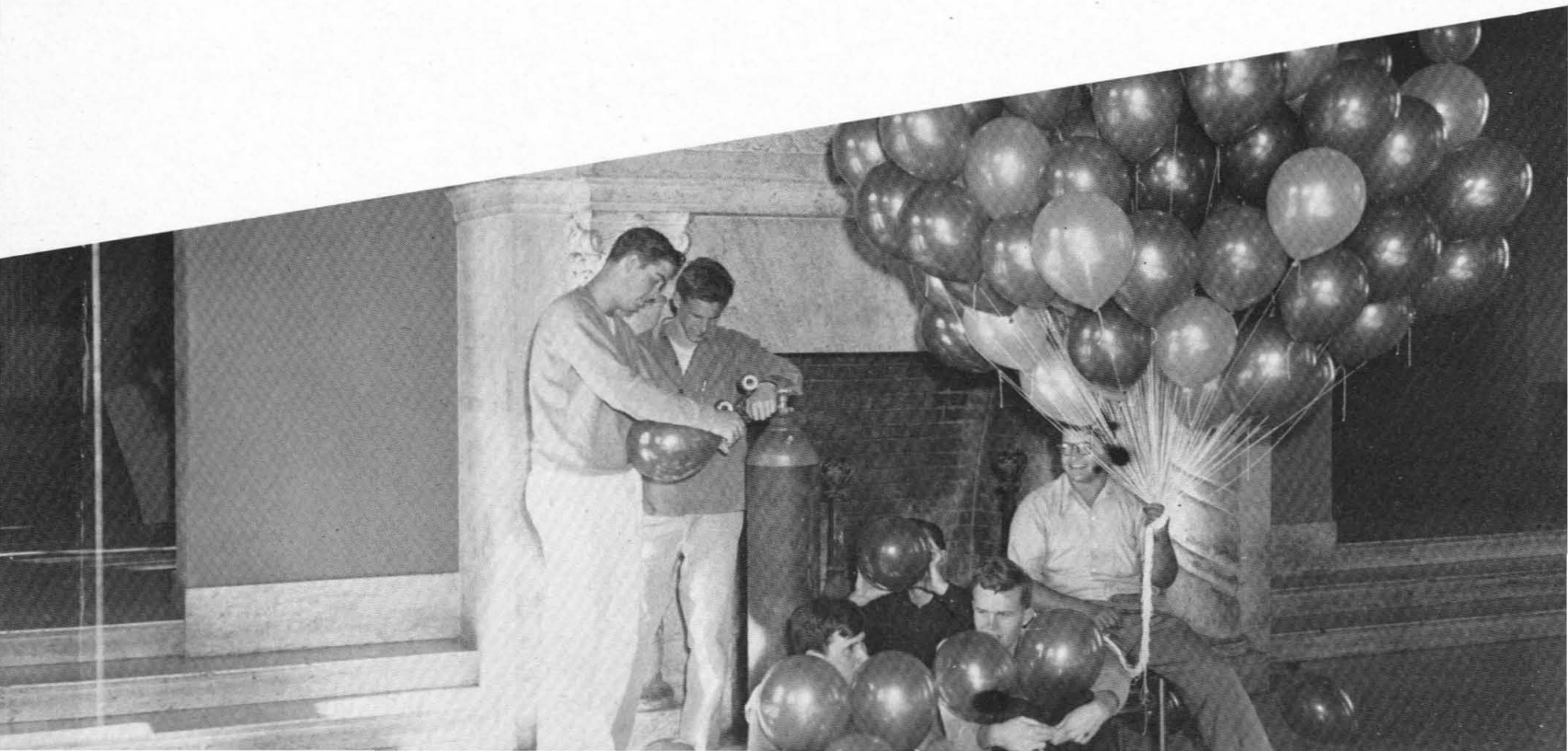


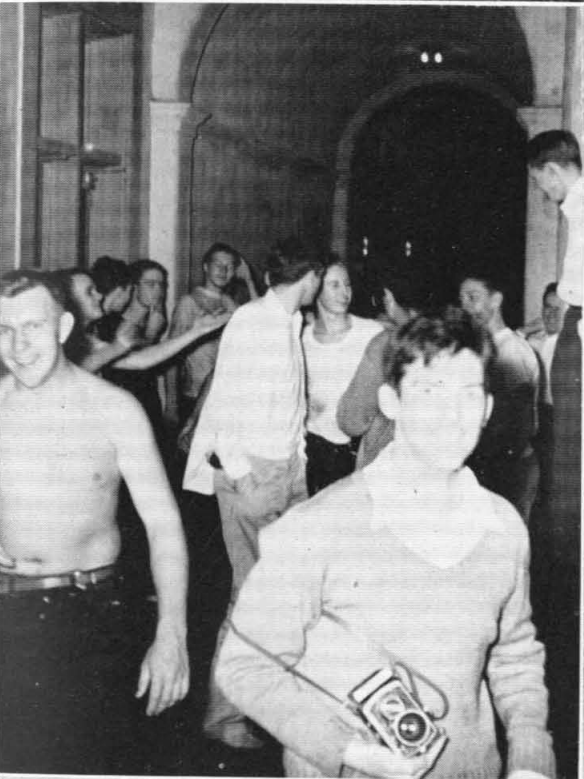
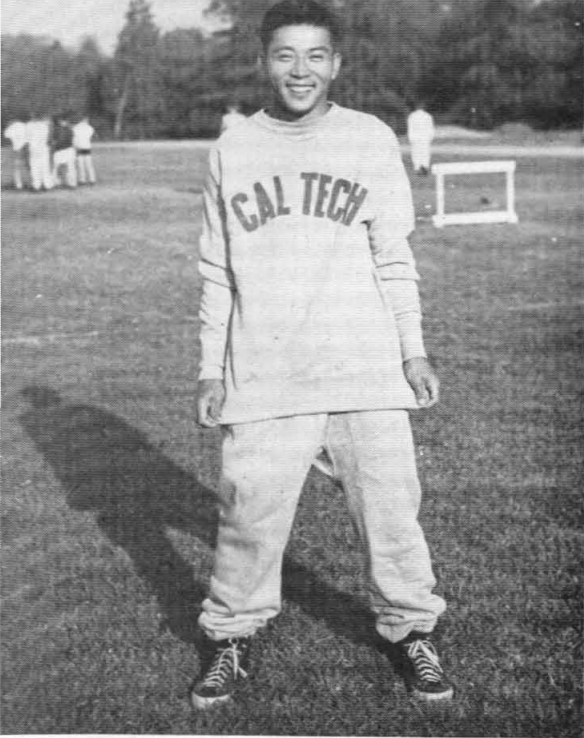
Front: CALLAGHAN, LAFF, BROWN

Second: CLARK, TWINING, GARDINER, BAIER, DRYDEN

Back: LUNAN, FORGY, STRANAHAN, SEELEY

INSTITUTERS







Front: SMITH, SOUX, COOKE, MIDDLEBROOK, COOK, KARASAWA, McCOURT

Middle: SCHMID, MUNRO, BERNER, NEWMAN, HEDRICK, LIBBEY, FEE, HOAG, EILAU

Back: EARNEST, SWEETMAN, ELLIOTT, HAUSER, OGILVIE, HEFNER, CONNER, RAMBOW, BLANCHARD, MacDOUGALL

ASCE

ASME

Front: DANIELS, SNIDER, BOZAJIAN, HALLSTROM, SKOGLUND, NOLL, CLUTZ, WRIGHT, PORIZKY, RUBIN, LeMAY, MANGIN, DR. MORELLI

Second Row: BARMORE, BURGER, BEEBE, WELCH, MORRISON, DAILY, OLIVER, SOKOL, STANAWAY, BOYER, NUNO

Third Row: RUSSELL, McCALDIN, BJERKLIE, RATHJE, KLARFELD, BUMB, COVEY, VAN HISE, GRONER

Back: ELLIOTT, EILAU, DAY, PITTON, GILLINGHAM, VREUGDE, LaFLEUR, BAILEY, WADE, MOORE, KATTERLIN, TAUTZ, BEGG, BOWERMAN





SAE

Front: PARKER, CASSIDY, PRESTON, EASTON, MANGIN, CUSE, NOBLE
Back: JOHNSON, DENNIS, WAGNER, CONNER, KENNON,
GILLINGHAM, SKOGLUND, HENLEY, LeMAY, VREUGDE, KYROPOLOUS



IRE

THIELE, LINDHOLM, BOOKEE, McCOOL, DeGRASSE, DAVIS, RICHTER

Front: GRAY, BASIN, TRILLING, O'CONNELL, ITO, DeGRASSE
 Middle: BUNKER, STERN, PARDEE, CONNOLLY, JACKSON
 Back: DAVIS, CLARK, BEMIS, ARNOLD, SUNDERLIN



AIEE



Front: WEBBER, BUTLER, VERDIER, JONES, SEELE, MAUER, DONDANVILLE, RUBENSTEIN, DYER, KAMEI, STEESE, HOOOPER, BAIER, PROFESSOR LUCAS, MISHANN, KELLEY, WEBBER, CONNELLY, RICHTER, RAWN

ACS

To encourage students to participate in professional organizations after graduation, the AMERICAN CHEMICAL SOCIETY has provided for the organization and affiliation of chapters of students in the Chemistry and Applied Chemistry options of A.C.S. accredited institutions. As an affiliate, the student receives the Society's organ and may subscribe to technical journals and other services; as a member of the student chapter, he may attend seminars to hear speakers from industry and from other campuses, whom he would not normally encounter in his academic work, and to hear and present papers on student research. The Caltech Student Affiliate Chapter was one of the first to be formed, its charter being granted in 1958.

Some of the projects undertaken by the Chapter this year include field trips to acquaint members with local industries, presentation of an exhibit of all the available elements for the Chemistry Department, and the institution of a glass-blowing course to acquaint interested individuals with the rudiments of this valuable art. Plans also include participation in a regional meeting of the A.C.S. Student Chapters of Southern California. A vigorous membership drive was undertaken at the first of the year, with the result that seven-tenths of the students registered for the Chemistry and Applied Chemistry option are members of the Chapter.



TAMMY, CZERCZEWSKI, CALLEY, NEWBURN, ABELL, WALP

MUSICALE

WADE, CALDWELL, THURSTONE, WHIRRY, GARDNER, CLAY



R
A
D
I
O

C
L
U
B



GRONER, MERTEN



BHANJ DEO, MESELSON

DEBATING



COACH LESTER McCRERY

Front: SAVRAN, RUBEN-
STEIN, LUDWIG, KEMMEL,
McCRERY

Back: BHANJ DEO,
CALLAGHAN, LARSON,
GRONER, MESELSON





Front: DRYDEN, JOHNSTON, SUNDT, RICHARDS, ENRIGHT, KING, MARION, LAFF, SAMPSON

Back: HAMBERGER, WOOD, WEIL, CONNOLLY, MARSH, BAKER, ROSEN, RAMBOW

BAND



JOHNSON, CONDUCTOR STIVERS



DOUG CALLEY and CONDUCTOR WILLIAM KLINE

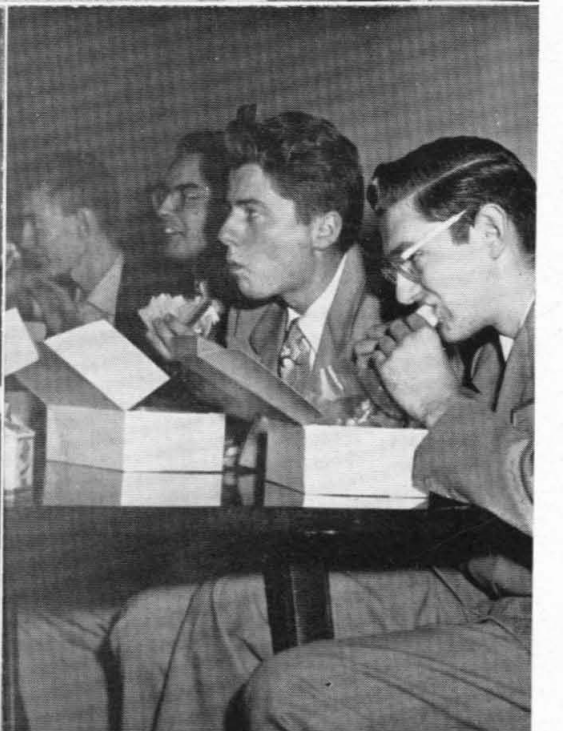
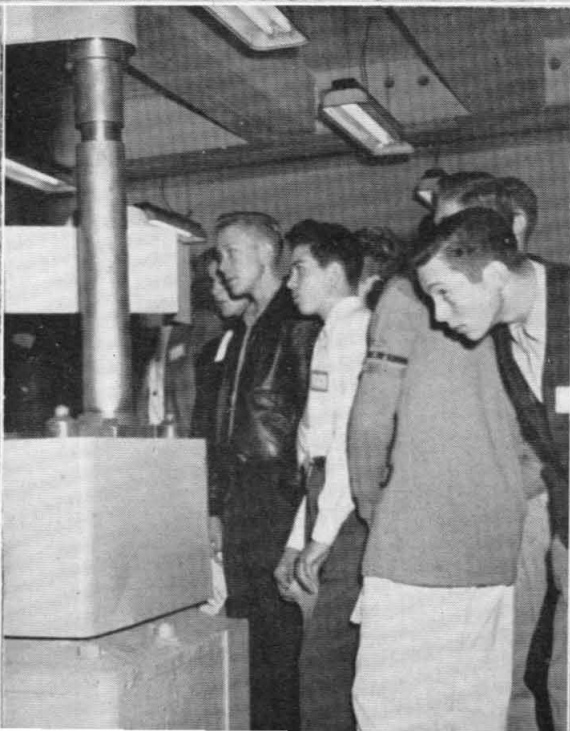
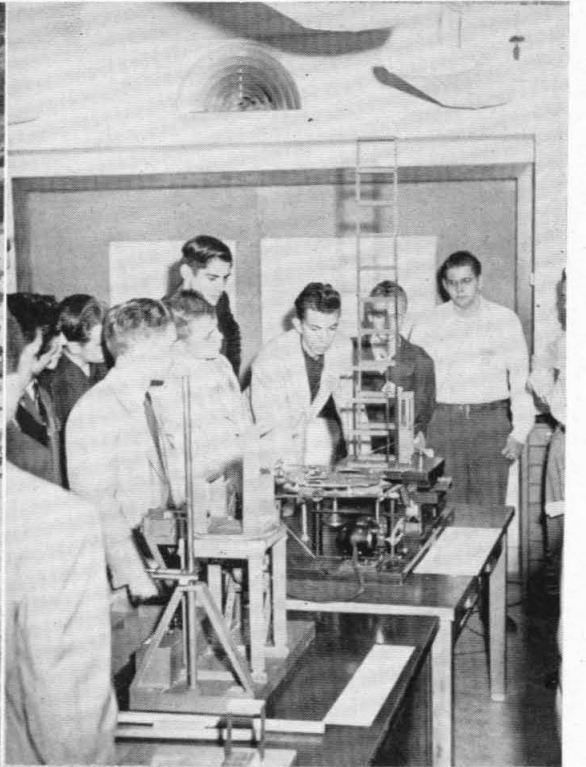
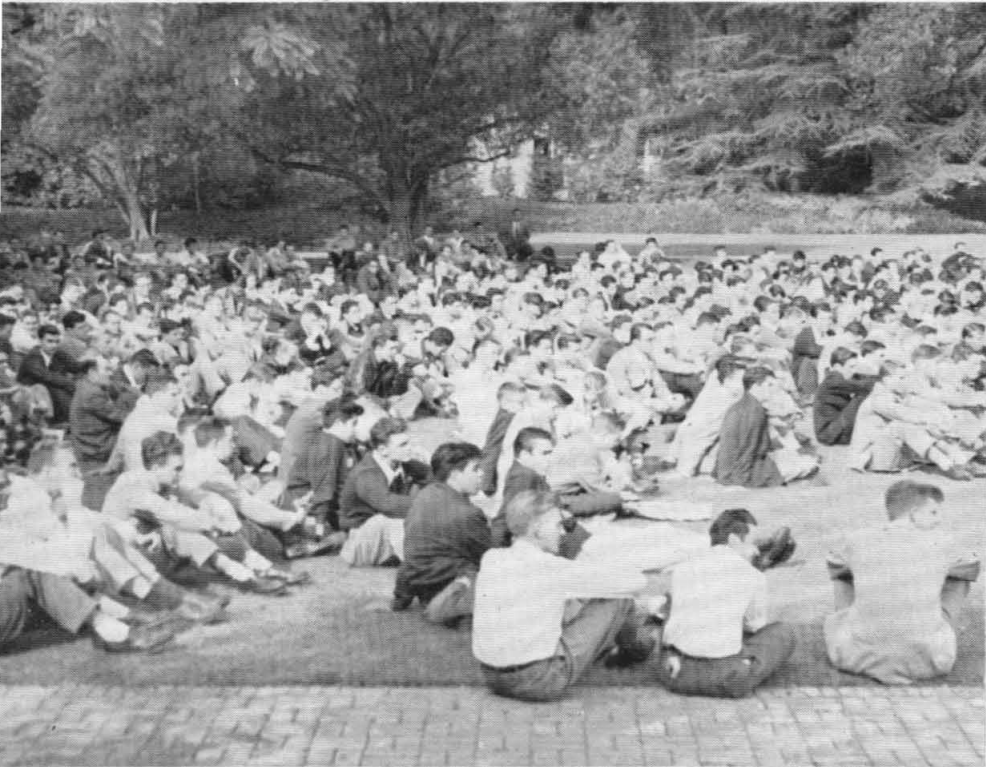
ORCHESTRA

Front: TAYLOR, CALLEY, HALLSTROM, JOHNSTON, BENJAMIN, KOONS, ELLIOT

Back: KLINE, WOHLWILL, INGERSOLL, CLARK, DIXON, BIELER, ANTZ, ZENTNER, BROWN

Not Pictured: DAVIES, DENTON, RASOFF, SAMPSON, VAN LINT, WEIL





STUDENT DAY

The re-establishment of an organized visitors' day at Caltech was the result of the situation which faced the Admissions Committee during the first post-war years. Just after the war applications boomed, and a record number of men sought entrance to Tech. Then, year by year, the number began to decrease. Both the faculty and the student body began to consider new methods of presenting the Institute and its educational program to prospective students.

As a result, the pre-war Open House, or Exhibit Day, was revived under the name of Student's Day. The original policy of holding open house had brought in larger and larger crowds, with the proportionately larger bills for damages. It was hoped that by extending personal invitations to interested students, and restricting attendance to the possessors of these invitations, the Institute might hold crowds and damages to minimum levels.

Professor Varney of the M.E. division was appointed to form a faculty committee, and Carl Hildebrand, senior biologist, assumed responsibility for the undergraduate participation in the program. Together these two groups laid the plans for Student's Day 1950.

Letters were first sent to all high schools within a fifty mile radius, and even to some farther away, asking for the names of science majors who might consider Caltech for their college training. Personal invitations were sent to each person whose name was returned.

Arrangements were made on campus to insure that each visitor was welcomed and directed to one of the student houses or Throop Club. Guided groups left each house regularly to tour the campus and to visit some of the fifty-six exhibits and demonstrations which were being staged. In the afternoon, a series of lectures was presented which threw some light on the general role played in modern society by each of the sciences.

A box lunch was provided at noon and Tech men shared the houses and surrounding grounds with the visiting students. Dr. DuBridg spoke to the assembled group. A large number of teachers had accompanied the visiting students and they were treated to lunch at the Athenaeum and to a talk by Dr. Pauling.

In all, some 150 or more Tech students and faculty members took part in Student's Day. Everyone concerned finished the day's activities with the assurance that the purpose of Student's Day had been fulfilled, that 700 students and 100 teachers had returned home with a better understanding of Tech.

WILBUR VARNEY



CARL HILDABRAND



ALUMNI



Renewing acquaintances after lunch at the annual Alumni Seminar

The Cal Tech Alumni Association is no ordinary run-of-the-mill Alumni organization. It has never demanded that the Board of Trustees fire the football coach, nor does it supply funds for athletic "scholarships." Its primary goal is service, service to the California Institute and to the Alumni. The Association has a distinguished record of introducing and developing activities which have proved so successful that they have been taken over in part or in whole by the Institute.

For example, the placement service, now wholly an Institute function, was initiated by the Alumni for the benefit of Tech students and graduates. Another example is *Engineering and Science*, a monthly magazine reporting current research and activities at Tech, as well as student

Dr. Millikan entertains a distinguished group



President-elect George Whitworth '20 takes over from Joe Lewis '41





The San Francisco Alumni chapter picnics in Tilden Park



Lady guests at the Alumni Seminar find old bones fascinating

and alumni news. This publication, still officially the Alumni magazine, now receives strong financial support from the Institute.

At present Alumni energies and attention are focused on the Alumni Fund, first objective of which is the long-awaited and sorely needed gymnasium. The Fund, launched in 1948, totaled \$70,621.59 on February 1, 1951, and will probably approach \$100,000 by the end of 1951. The Fund has shown itself to be a lusty and growing infant with such a strong heart beat that ultimate attainment of the goal is assured.

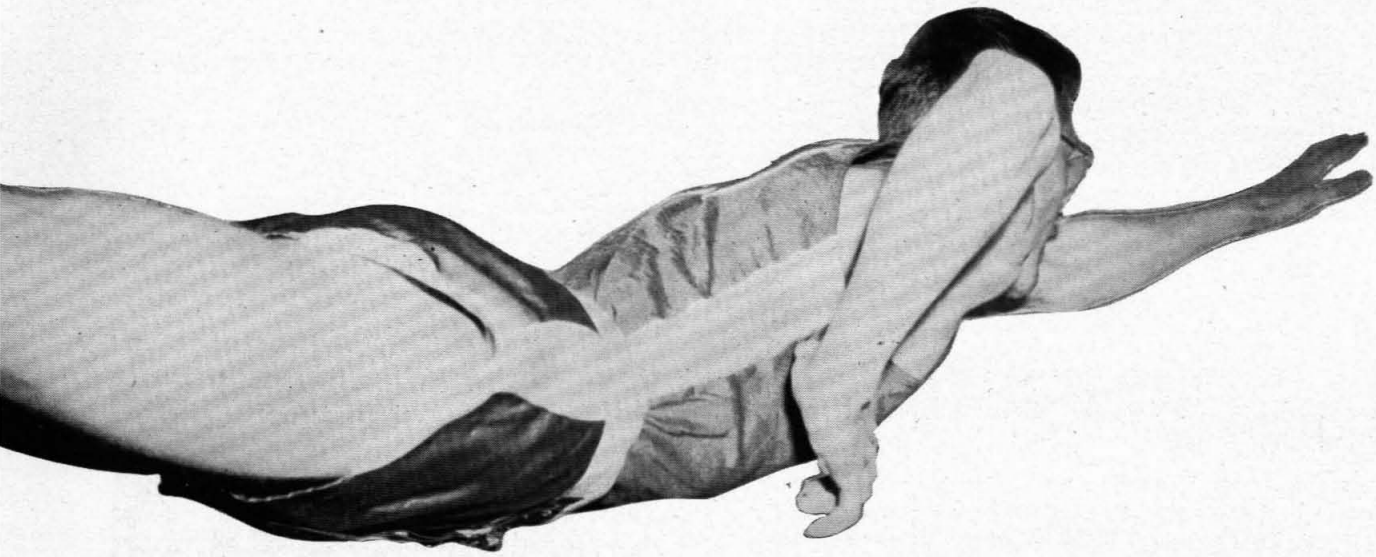
Many people do not realize that the Association has active chapters in New York, Washington, Chicago, and San Francisco, and you don't have to be in Southern California to be an active *Alumnus*. Other chapters can and will be organized as the need develops. The Association further serves its members by sponsoring many activities providing contacts with old friends and renewing ties with the Institute. Among these are the Annual Seminar held on a Saturday each spring when hundreds of Alumni, wives, and guests assemble on the campus to hear lectures and see demonstrations reviewing the latest in campus research. The Oxy-Caltech Football luncheon precedes the "big game" and brings Alumni of the two schools together. Square dances, field days, dinner dances, field trips, supper meetings, picnics and the annual meeting and class reunions in June round out the program. Some of these activities are represented pictorially on the accompanying pages.

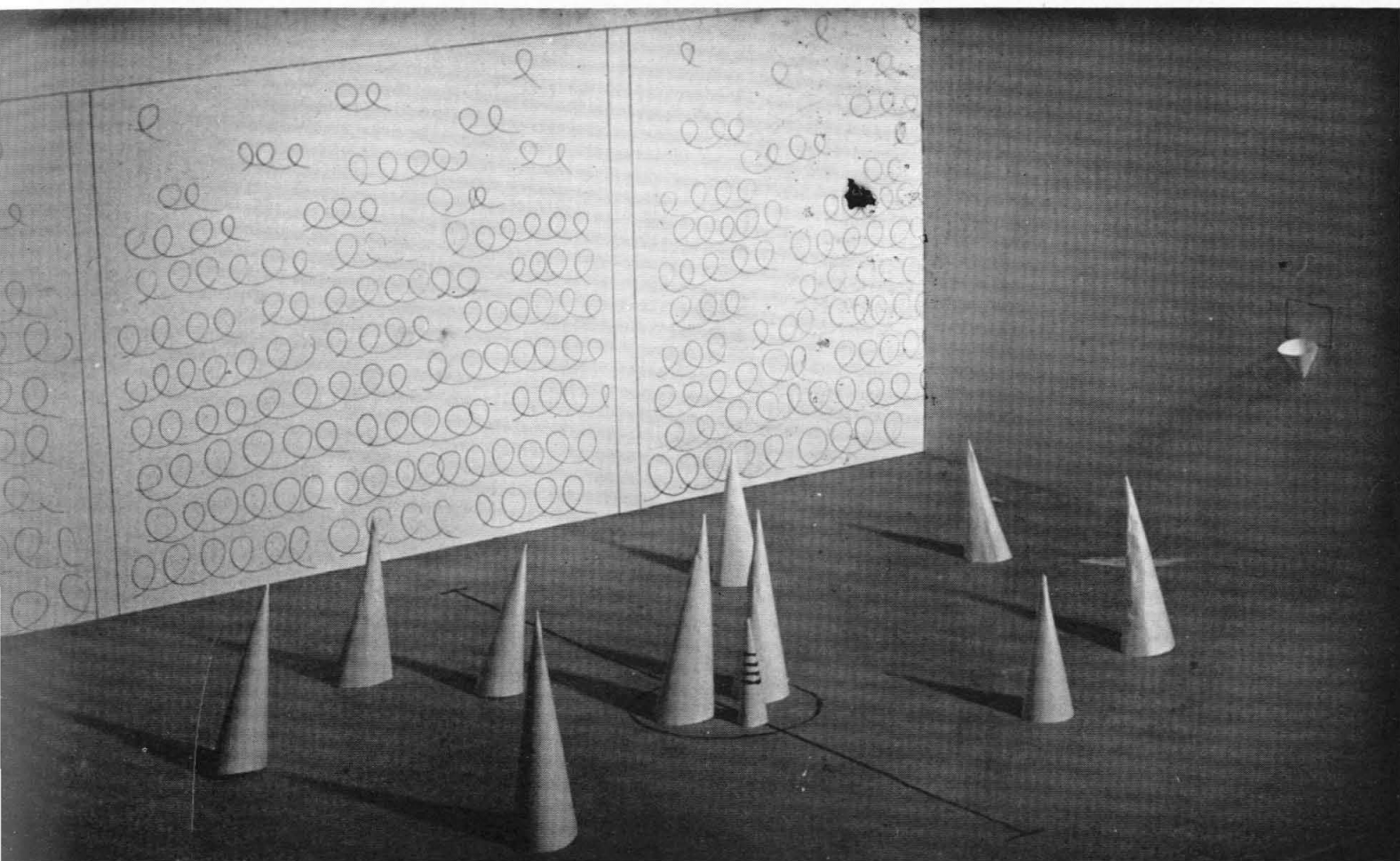
Relaxation, refreshments and talk at the Alumni field day



The Alumni Magazine, *Engineering and Science*, is widely read







SPORTS

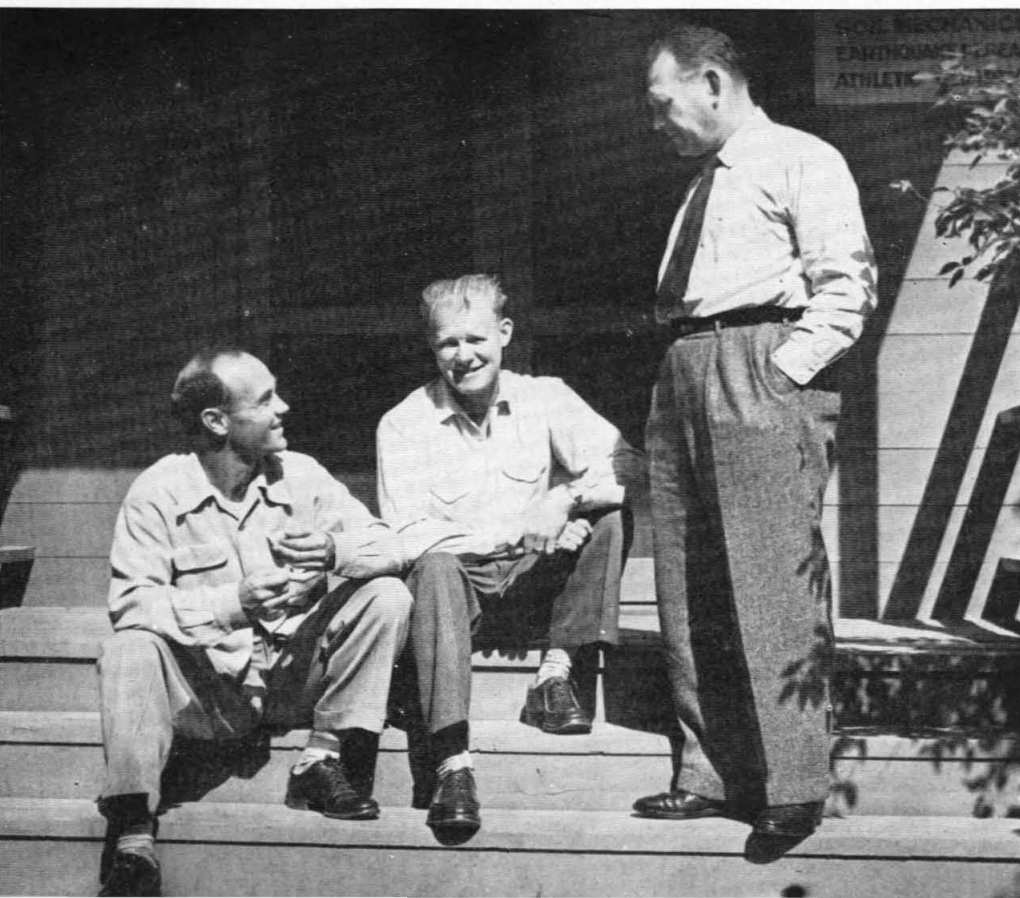


HAL MUSSELMAN

ATHLETIC OFFICE

Under the able leadership of Director of Athletics, Hal Musselman, the athletic department has supervised another year of Caltech sports, Mr. Musselman having been aided by Coaches Jim Nerrie, Bert LaBrucherie and Ed Preisler. Handling all the facts and figures on Caltech teams has again been very capably managed by Miriam Coyle and Louise McGee. A special vote of thanks goes to the athletic office from the Big T and the California Tech sports editors for their co-operation in supplying statistics for these publications.

COACHES PREISLER, NERRIE, LA BRUCHERIE





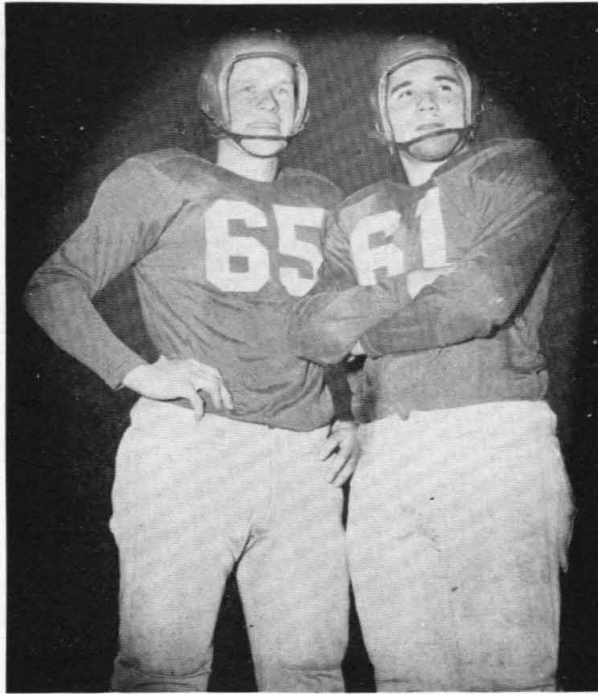
SERENO, LIBBEY, REED, PECK, KARASAWA;
PRICE, HEDRICK, COBB, HOUSER

VARSITY CLUB

The muscle-trust spent most of its time this year in the fields and all but neglected to function; we are assured, however, of activities in various social lines beginning almost any day, at least to the extent of self-perpetuation.

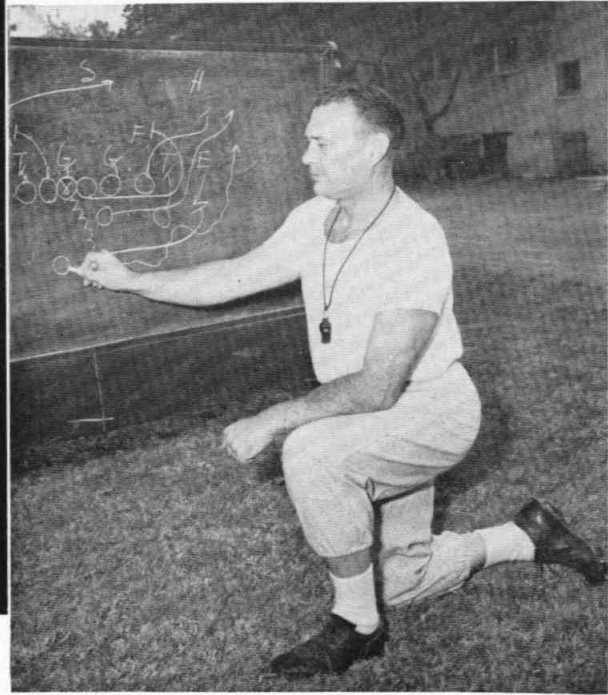
The traditional annual pilgrimage to the township's booze parlours, if staged this year, was unpublicized to the extent that outsiders were entirely unaware of such activities.

The Varsity Club, incidentally, is composed of lettermen, membership to which is by special invitation. It is even rumored that shady initiations are held in a dark cave somewhere near the La Brea Pits.



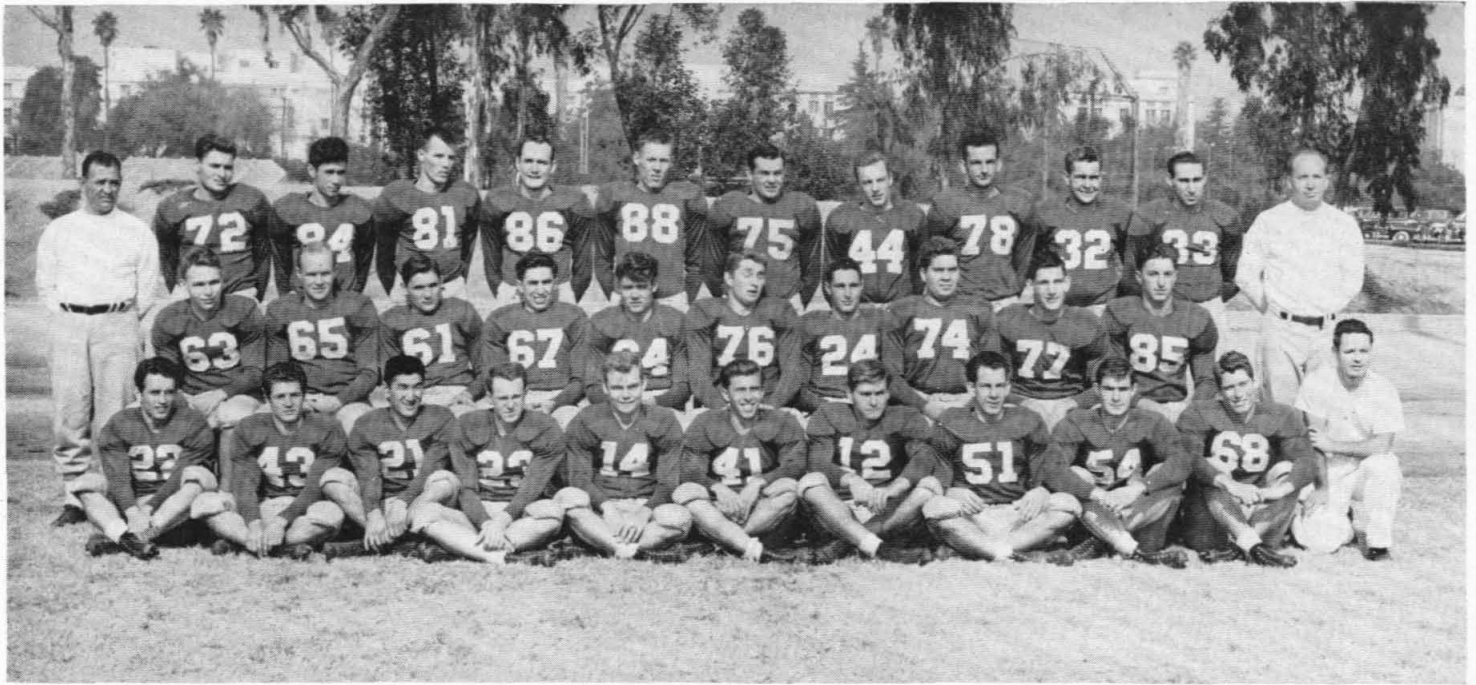
CO-CAPTAINS REED, D. PECK

HEAD COACH BERT LA BRUCHERIE



FOOTBALL





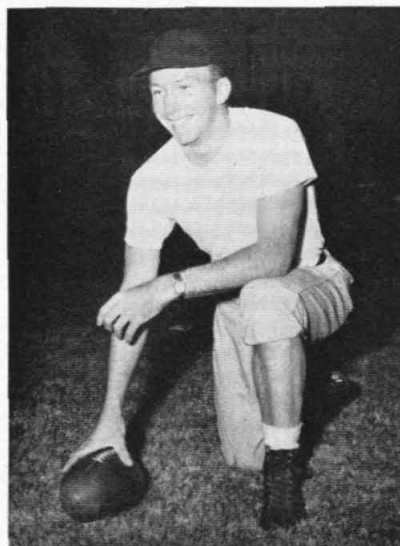
COACH BERT LA BRUCHERIE, FULLER, PARNES, IRWIN, JANSSENS, MOORE, TALLMAN, KITCHING, ERNEST, WALLACE, WOODY, COACH MEHRINGER

JOYNER, REED, DALLAS PECK, NORMAN PECK, LAMAR, DESTABELLE, TEAGUE, PILANT, MUEHLBERGER, SCHMID

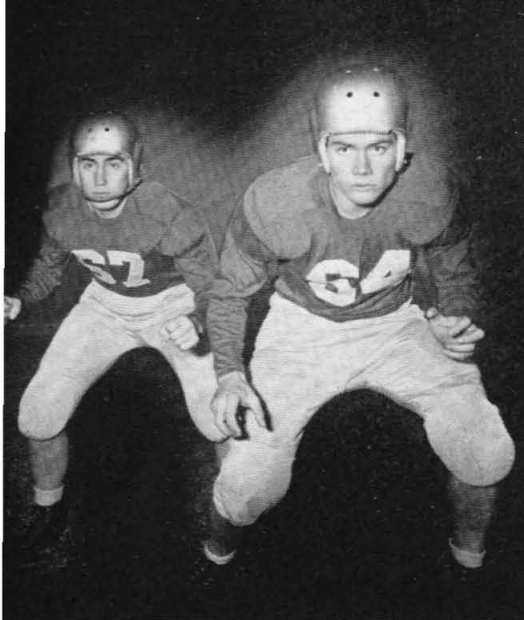
FAZIO, WALKER, KARASAWA, BIGGERS, COSAND, COOK, JOHNSON, HANNA, STEFANIDES, GEE, MOORE (Mgr.)

Spring Practice last year looked good, very good. In the last scrimmage that winds things up, we shoved Oxy back and forth across the field. Prospects looked the best in three years. Summer, however, took a terrible toll. Chucker Norman decided to stay away and farm. "Fullback" Lewis enlisted in the Navy; and "Tank" Miller found U.C.L.A. more intriguing. But that was not all, End Michelson broke his leg in the second week of practice and Quarterback Marshall was drafted.

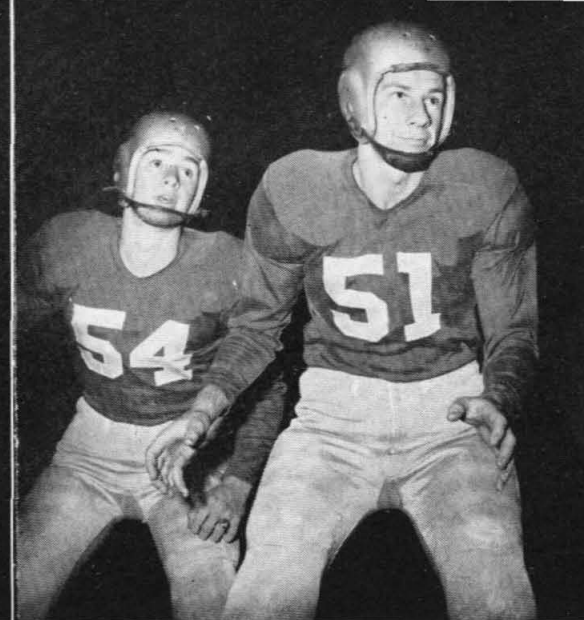
Dallas Peck and Noel Reed were elected co-captains and inspired the team to the spirit and fight which the rooters so admired and cheered throughout the season. Woody, Walker, and Stefanides were all-conference, and Dallas Peck won the coveted Wheaton Trophy.



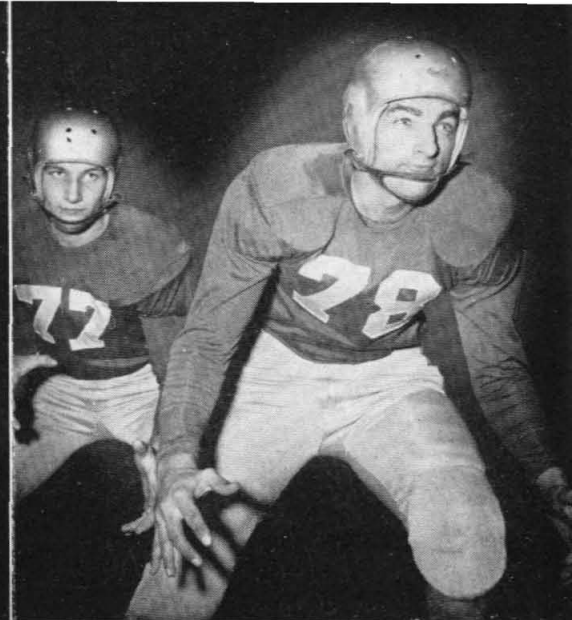
COACHES IVAN MEERS, PETE MEHRINGER



N. PECK, LAMAR



STEFANIDES, HANNA



MUEHLBERGER, EARNEST

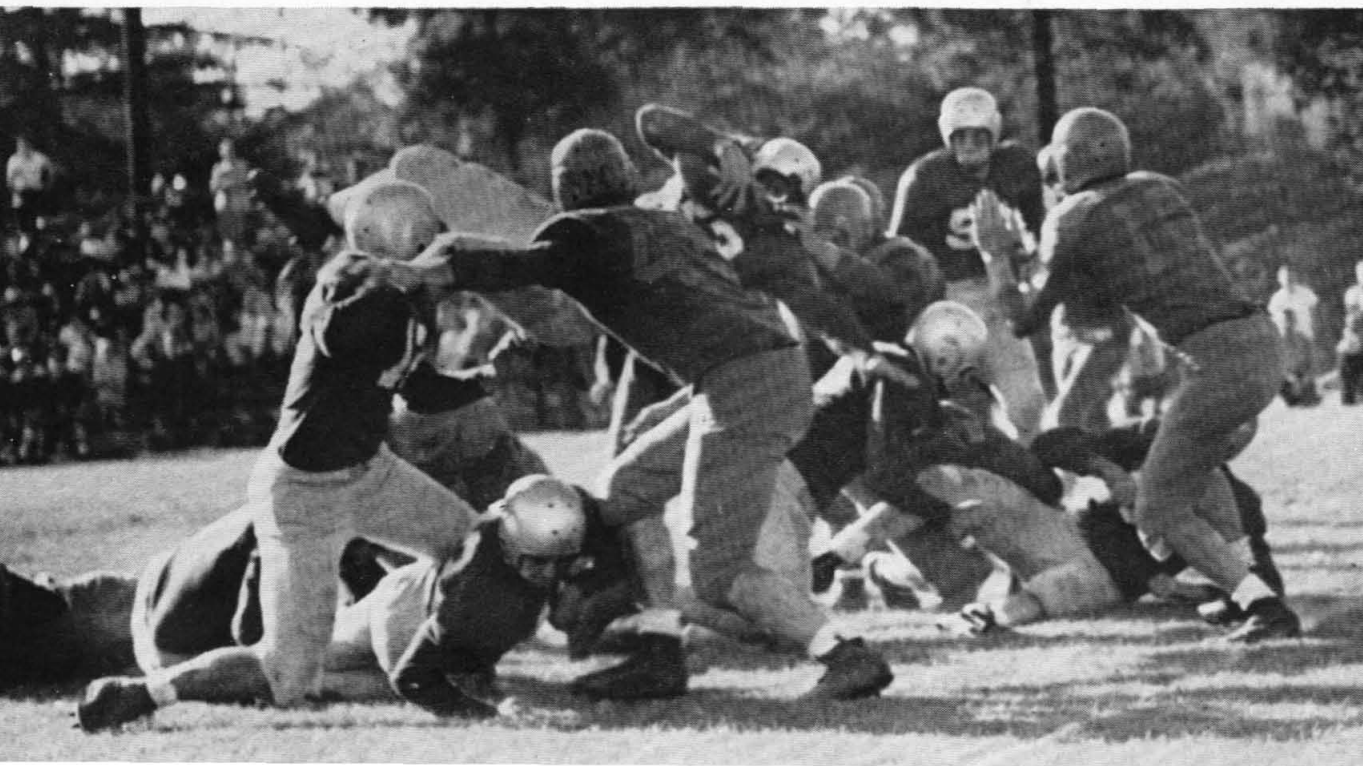
FOOTBALL

SANTA BARBARA 47 CALTECH 7

After only two weeks of practice the Beaver squad entrained to Santa Barbara to play the potent and powerful Gauchos. In the first quarter the Gauchos intercepted a Beaver pass and ran it over for a touchdown. The hard punching Beavers then caused the Gauchos to fumble. Babe Karasawa recovered and ran it over two plays later to even up the score. From then on the better condition and the superiority of seasoned players began to tell and turn the tide to the Gauchos. Most of their scoring was on punt returns and intercepted passes.

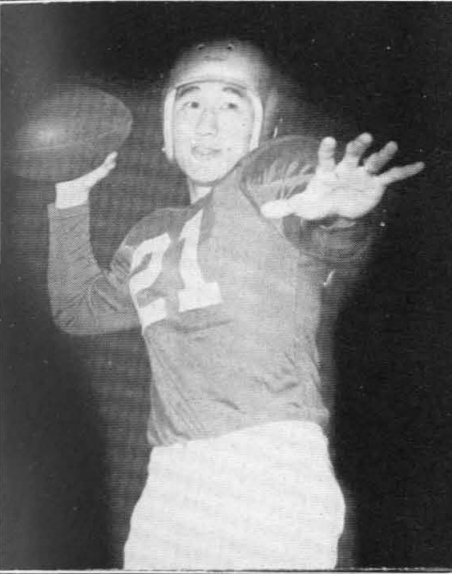
SAN FRANCISCO STATE 36 CALTECH 7

A plane trip and a tour of California's Golden city, San Francisco, were not enough to sustain the Fighting Beavers as they met their second defeat in as many weeks. The 'Gators had too much strength and power, and passed their way to an impressive victory over an improved Beaver team. Halfback Jack Walker went 37 yards over tackle for the lone Beaver score.





WOODY,
KARASAWA,
WALKER,
MOORE



WHITTIER 35 CALTECH 7

The game which marked the opening of the 1950 SCIC also marked the third defeat of the Beavers.

Whittier took the lead early in the first quarter on a 21-yard touchdown pass, then increased to 14-0 on a 46-yard run over tackle, and made it 21-0 on a short pass. Led by fullback Hal Woody the Engineers struck back and traveled 87 yards in 12 plays for their lone tally. The touchdown play was a 14-yard pass from Jack Walker to Don Schmid. A much more polished Caltech squad forced Whittier to keep their first string in most of the time.

OCCIDENTAL 20 CALTECH 7

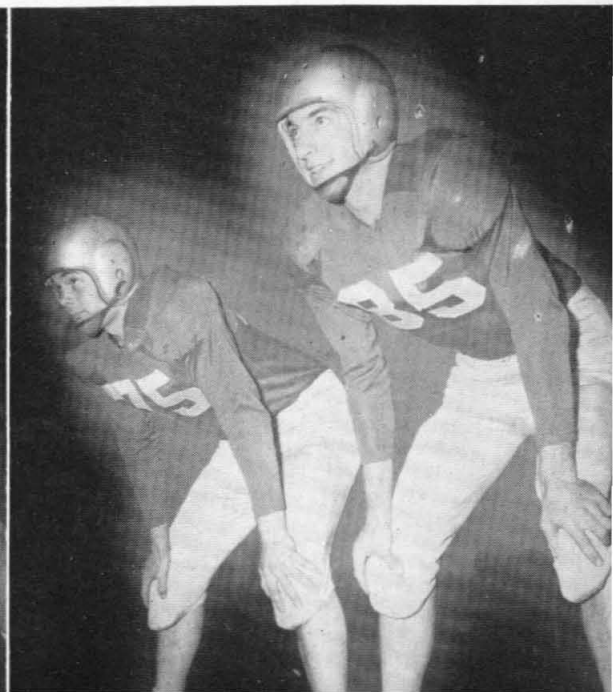
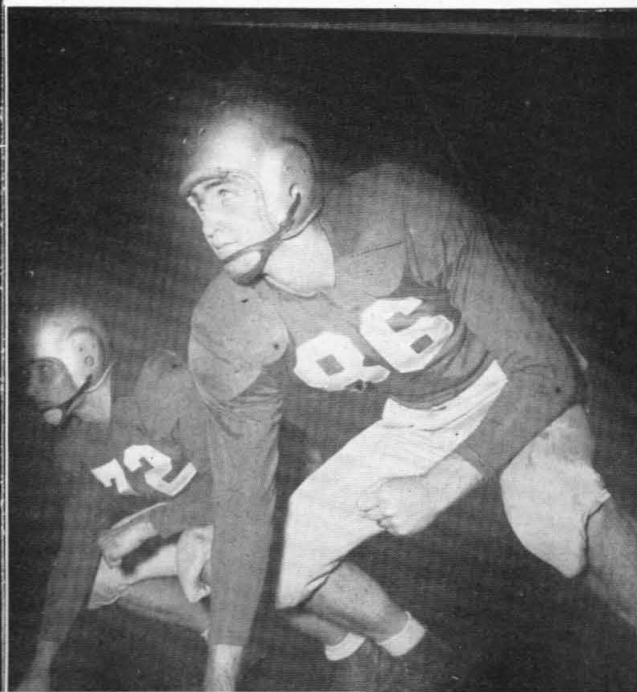
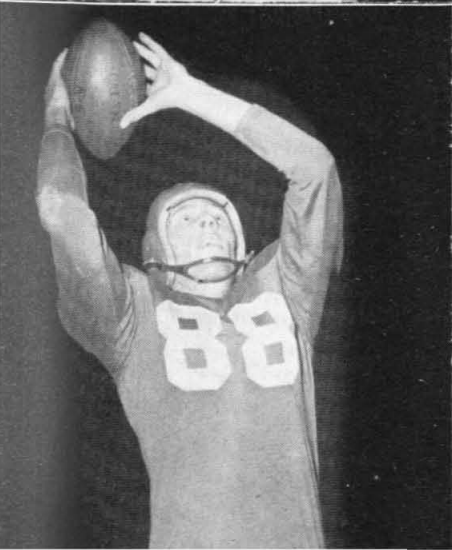
Caltech threatened from the initial kickoff when they marched from their own 20 to Occidental's 20 to lose the ball on downs. Late in the second quarter Oxy broke for the only score of the half. Oxy opened the half with an 80-yard march to lead 14-0. Tech took over and drove from their own 24, scoring on an end-around pass from Randy Moore to Jack Walker. Oxy retaliated to go out in front 20-7. The game ended with Tech on Oxy's 1-yard line.

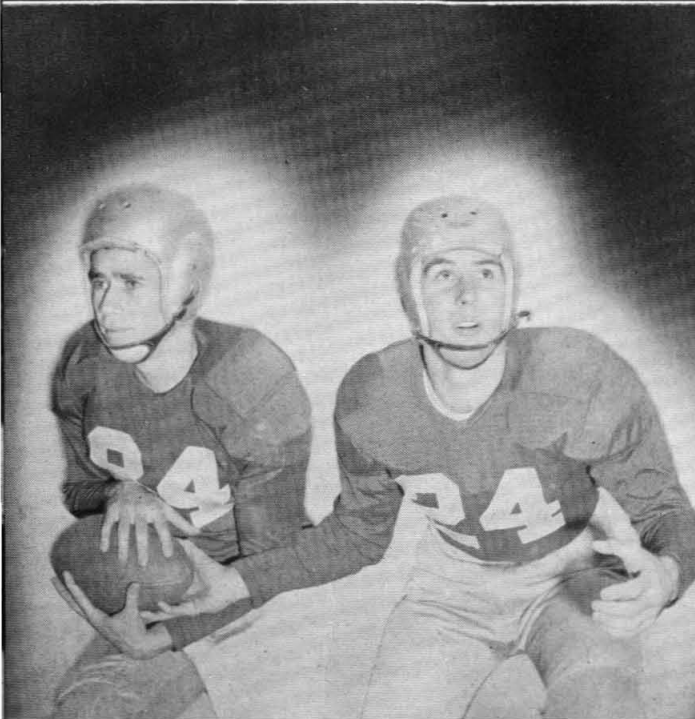


REDLANDS 34 CALTECH 13

Dominating the entire first half the Bulldog's rolled up 27 points before the Beavers got their bearings. Early in the third stanza Jack Walker found some blockers and did some fancy running in returning a Bulldog punt 35 yards for a TD. The Caltech passing attack showed its power by racking up 200 yards and a touchdown.

FULLER, JANSSENS;
TALLMAN, SCHMID





FOOTBALL

CALTECH 27 LA VERNE 12

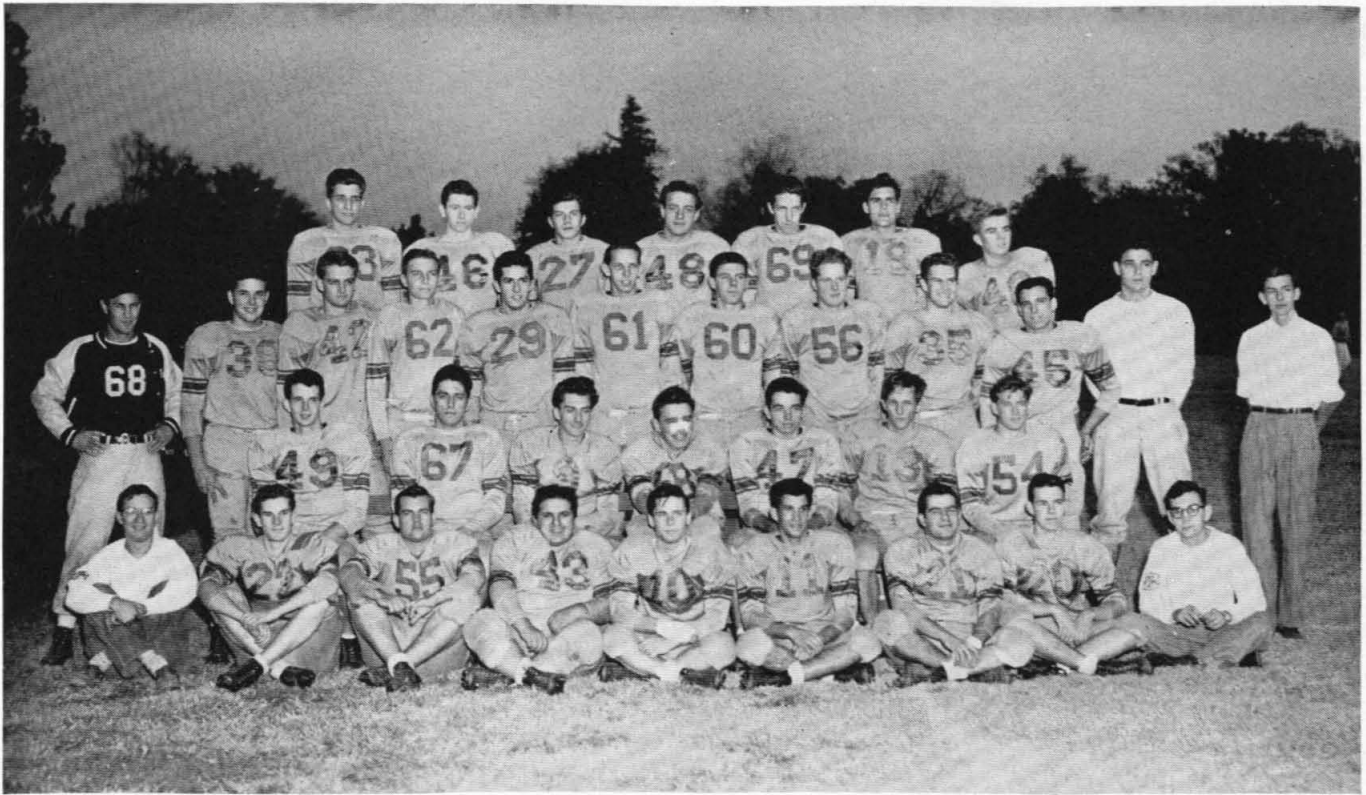
It happened! After a 13 game abstinence a Caltech football team said, "We can win, we will win, and we did." La Verne received the kickoff and scored on a 48-yard pass play. Tech took the kick off and marched 74 yards to lead 7-6. La Verne returned the favor going 77 yards in 6 plays and scoring on a 46-yard pass play. Not to be outdone Tech moved 94 yards over through and around to even the score. The half ended 13-12 for Caltech. The third quarter was a stalemate. Woody barreled his way through the line to score one more touchdown and set up another as Tech tasted their lone victory.

POMONA 41 CALTECH 28

Leading all the way until the last quarter it looked as though Tech was going to make it two in a row. Recovering a Pomona fumble on the third play of the game the Beavers converted it into a quick touchdown and eight minutes later added another. With the score 14-0 the Sagehens found their equilibrium and scored twice before the half. Tech 14-Pomona 13. Tech, behind driving Woody, took the kickoff all the way back. Reinke of Pomona scored again. Tech 21-Pomona 20. A 37-yard punt return and intercepted pass gave the Sagehens 14 more. A 51-yard TD pass to Woody put the Beavers in the game again but slippery Ed Reinke again got loose for the final Sagehen TD. Woody made all four Tech touchdowns.

GEE, WALLACE;
JOHNSON, IRWIN;
PARNES, TEAGUE





E. KAISER, BELLINGER, KRIGER, HANDEN, PLAMBECK, DONDANVILLE, C. WILLIAMS.
 ED PREISLER—Coach, GOETTEN, JOHNSON, HOOK, ABBOTT, HOSEGOOD, KIRKPATRICK, BAILEY,
 HODGES, PROFET, MANNY BASS—Coach, J. WILSON (Mgr.)
 KIDDER, VODOPIA, BROSE, HENDERSON, STRYKER, GAUSS, LLOYD
 WALL (Mgr.), TYSON, TAYLOR, SHULMAN, R. SMITH, B. KAISER, SALIBA, DAVIS, RAY (Mgr.)

FROSH FOOTBALL

Blessed with a minimum of experience but a maximum of spirit, the frosh footballers came through for the second straight year with one win over Redlands. Though the rest of their games weren't so successful, that win made it a worth-while season. And with the experience gained, they'll help make it tough for the varsity's opponents next year.

With Coach Ed Preisler handling the backs and assistant Mannie Bass working with the linemen, the team showed steady improvement. Bart Stryker, playing fullback, hit hard in all the games, while Lee Henderson at end and Hugh Taylor at guard were outstanding in the line. It was hard to pick out individuals; the whole team was in there fighting all the time.

Scores:

Whittier	58	Caltech	0
Occidental	65	Caltech	0
Pomona	25	Caltech	7
Caltech	19	Redlands	15



ED PREISLER, Coach

WATER POLO

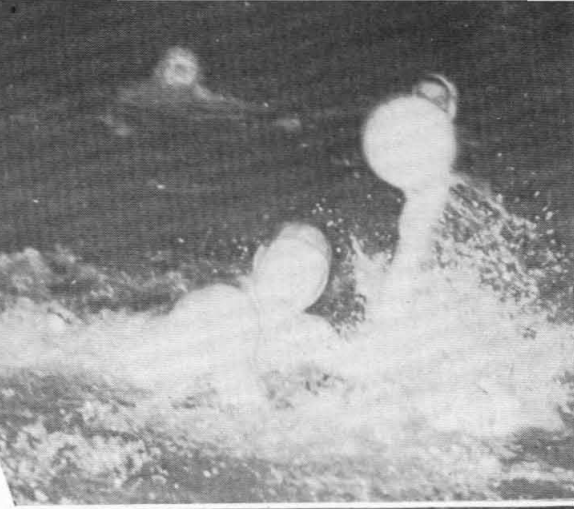
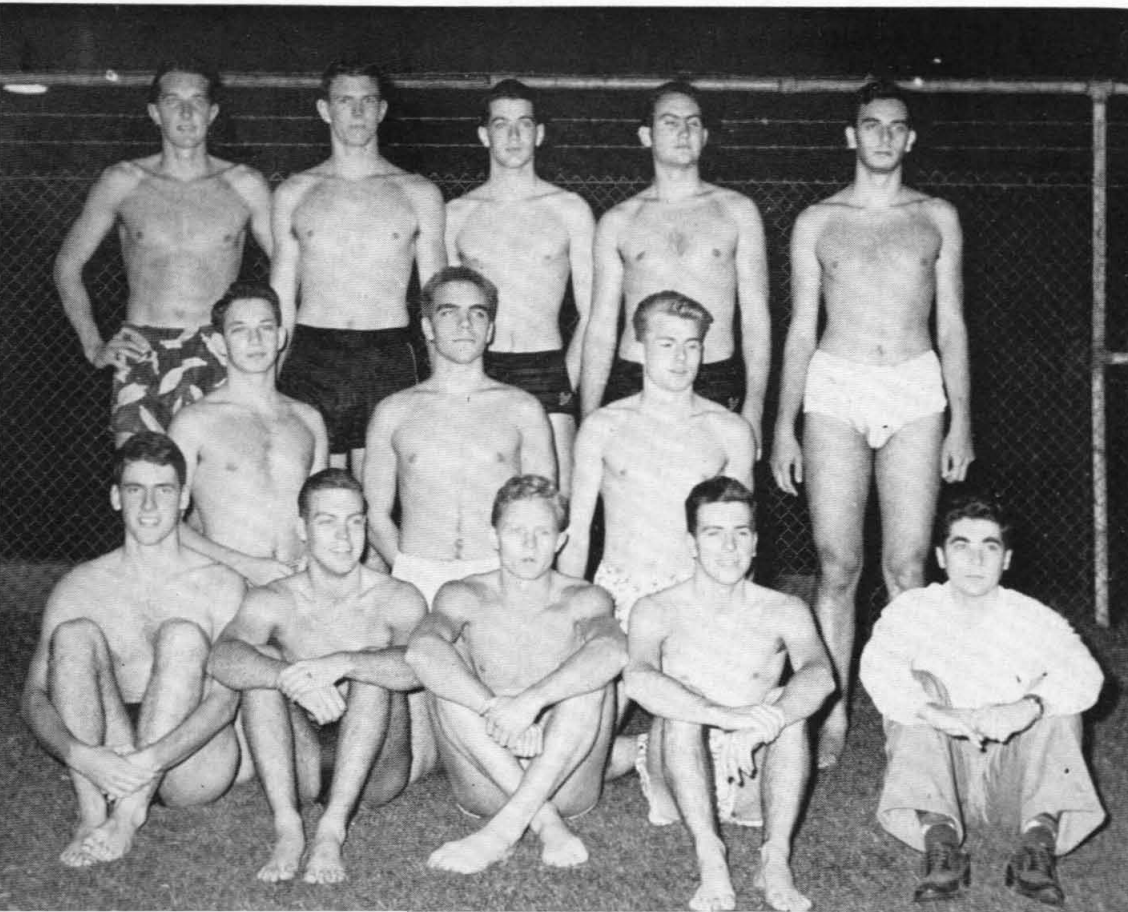
Under the expert coaching of Don Garman, the Beaver water-polo squad had their best season in years. Not only did they beat Oxy twice and win nine of their 15 games, but they came in second in the local water-polo league.

It is hard to say whether the high point of the season was the first or the second win over Oxy. After taking a close 5-4 decision from the Tigers in the PCC pool, our team was challenged for a return match. In this rubber game, there was no question who had the better team, the Engineers winning 11-1.

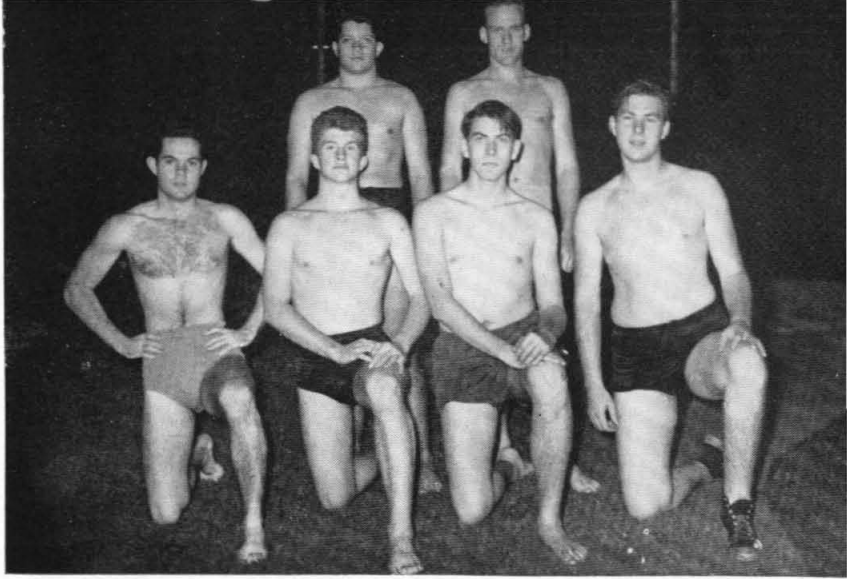
After an undefeated season in their division of the waterpolo league, Caltech defeated LACC 16-4 in the quarter-finals. However, Fullerton proved a little too much for the boys to handle in the finals, especially with their coach out of town on business.

In the way of individual honors, Bill Barmore was named to the All-Conference team at his position of forward.

VON HERZEN, LIBBEY, CONNER, ARMSTRONG, WEIL
LAFF, STOCKEBRAND, STOFEL
OGILVIE, HAIRE, HOUSER, BARMORE, JACOBS (Mgr.)



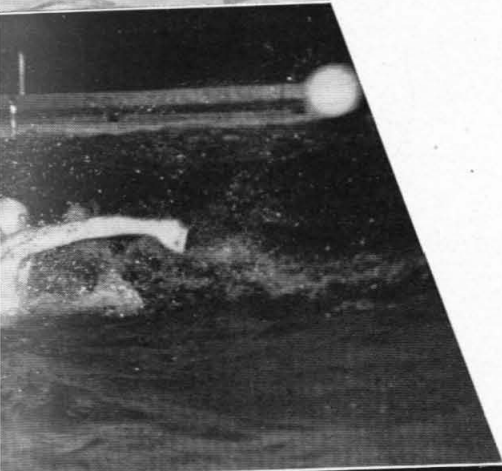
B. SMITH, PARKER
COLLINS, BRYAN, ISAKSON, MAHLER



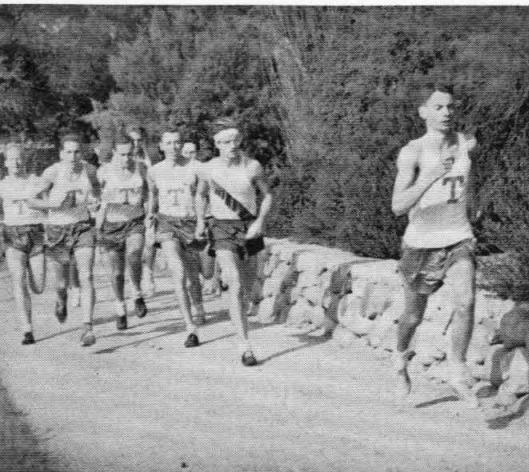
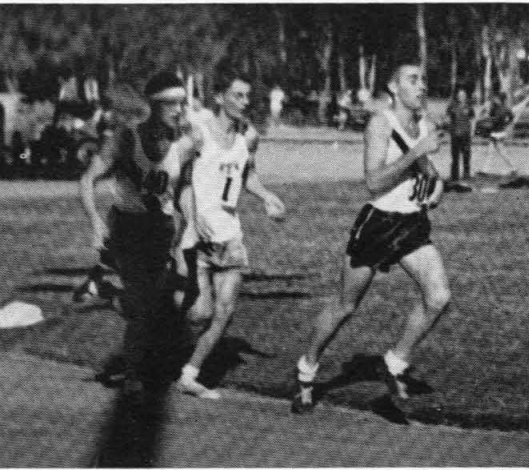
FROSH WATER POLO

VARSITY SCORES:

Caltech 16, LA State 6
Compton 7, Caltech 5
Occidental 6, Caltech 5
Caltech 12, PCC 7
Caltech 16, Muir 4
Caltech 17, UCLA Frosh 4
Caltech 5, Occidental 4
Caltech 12, Cal Poly (SD) 1
Caltech 24, ELAJC 11
Compton 5, Caltech 1
Caltech 11, Occidental 1
Caltech 16, LACC 4
Fullerton 9, Caltech 2



CROSS COUNTRY



SCOTT, BOWERMAN, MASON, DICKINSON, MERTEN, STEESE, PATRAN
KAMEI, PILKINGTON, SHAKESPEARE, COBB, MARSHALL

Caltech's Cross Country squad turned in a creditable season, but again they couldn't seem to get by the powerful Oxy squad this year, although they won a tie for first in conference standings because of an Oxy loss to Pomona. Only other loss was an early season practice with Muir.

Finishing one-two for Tech in most of the meets were Pete Mason and Bill Pilkington, while Bob Cobb usually placed a solid third. Gene Shakespeare, Francis Scott, Dick Dickinson, Ray Bowerman, Ulrich Merten, and Bill Blodgett rounded off the squad.

Best meet of the season was a narrow 27-28 victory over Pomona which was run in a driving rain. The

other meet results were as follows:

Muir 27, Caltech 28
Caltech 25, PCC 32
Caltech 18, Whittier 43
Oxy 25, Caltech 35
Caltech 27, Pomona 28
Caltech 24, LA State 34
Caltech 25, Redlands 35

We won five and lost two in our dual meets. Oxy was victorious in the all-conference meet, with Tech a close second. Final score for the all-conference meet was Oxy 40, Caltech 46, Redlands 68, Pomona 85, and Whittier 115.



MUDEO

For the first time in eight years, it was the frosh class who won the Mudeo, winning by a 5-2 margin. Red-faced sophs explained the disaster with alibis such as student house food, fair judging by the junior judges, and a migration of the soph dug pit holes toward the soph side. Anyway, the Frosh-Soph dance was enjoyed by all attending, although the sophs seemed somewhat in the minority.



SOCCER

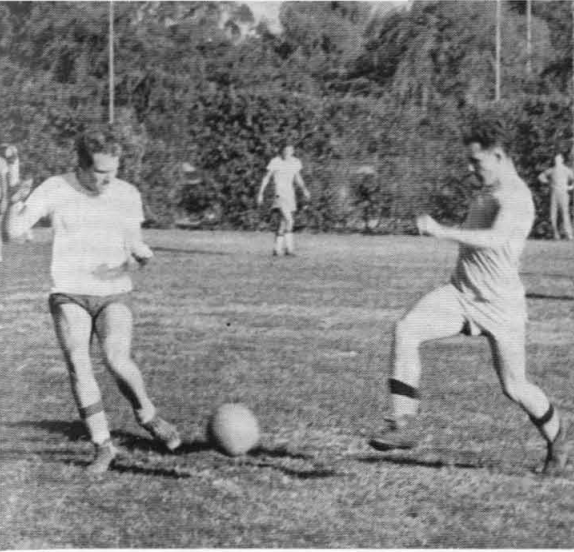
Caltech's "miracle" soccer team brought the year to a successful conclusion with two victories the last week of the season. The big upset was a 2-1 victory garnered at the expense of UCLA. This was the Bruins' first collegiate defeat in nearly two years and came as a tremendous shock to the team which had pulverized the Beavers, 16-2, last year, and was rated third in the nation.

For its tremendous victory, Mentor Huttenback presented the team with the "Old Shinbone" trophy.



HUTTENBACK (Coach), CRICHTON, DUDEK, VARTANIAN, SALKELD, PEYTON, BHANJ DEO, SCHLINGER, PERDIGAO, BEUF, HASTRUP, BAGGERLY, JONES (Coach)

PRICE, GUTIERREZ, OTTE, INGLIS, WELCH, WEBER, NOBLE, WOOD, OTTATI
JOYCE, EMERSON, MILLER, KLUTZ



Statistically speaking, we find that in eight games the Beavers scored 35 goals to their opponents' 15; thus averaging a lusty 4.4 goals per game. The leading scorers were Reinaldo Gutierrez with 19 goals, Carl Otte with 6, and Bob Wood with 4. Gutierrez's 19 goals appear to make him the highest scorer in the entire nation this year.

Especial mention should be made of the outstanding play of the two inside forwards, Swaroop Bhanj Deo and Capt. Ernesto Weber, without whom the outcome of most games could have been different, and that of Goalie Chuck

Miller and Halfback Leo Baggerly, two of the most improved men on the team.

Scores:

- UCLA 7, Caltech 2
- UCLA 5, Caltech 2
- Caltech 2, UCLA 1
- Caltech 15, USC 0
- Caltech 4, USC 5
- Caltech 2, San Diego State 1
- Caltech 5, Thatcher 0
- Caltech 4, Thatcher 2





The 1950-1951 season proved to be a very unsuccessful one for the Caltech varsity. After being handicapped by a late start and injuries to several key men, Tech lost its conference opener to Oxy, 58-35. Successive losses to Redlands, Whittier, and Chapman did not deter the Beavers, for they roared back against Pomona and were defeated only in the last minute, 45-41, after being ahead most of the game.

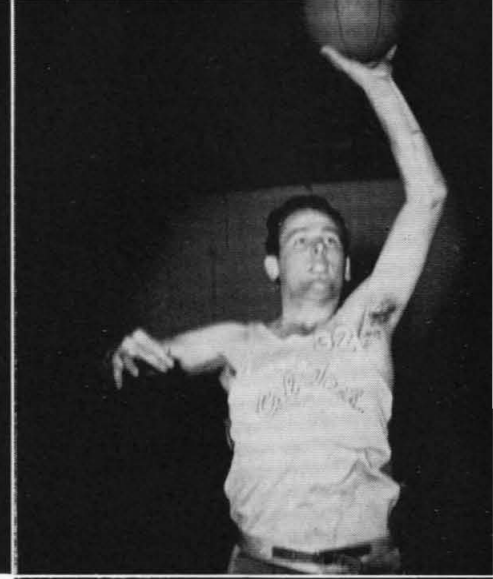
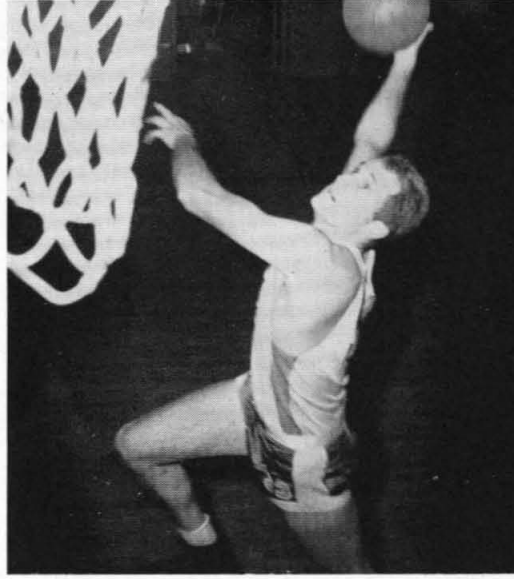
Again showing their familiar good first half-poor second half pattern the Engineers went down stubbornly to the Oxy Tiger, 62-57. The following week-end Tech got its revenge as the Beavers fought dearly for a close 57-55 win over Redlands. The Tech-Bulldog game was unquestionably the climax of the season. Whittier, Chapman, and Pomona proved rude hosts as they brought Tech's season to a close.

Leading the Beavers throughout the season was their capable center, Thorne Butler. Thorne not only was the team's highest scorer, but was third highest scorer in the six-team conference. Wisely enough, he was elected to a position on the SCIC all-conference team for the second time. Great improvement over last year was shown by Al Sereno, a scrapper all the way. Al's drive was monumental in its importance to the team. Although they had plenty of tough knocks and hard nights, the Beavers were always in there trying and gave all the teams many anxious moments.

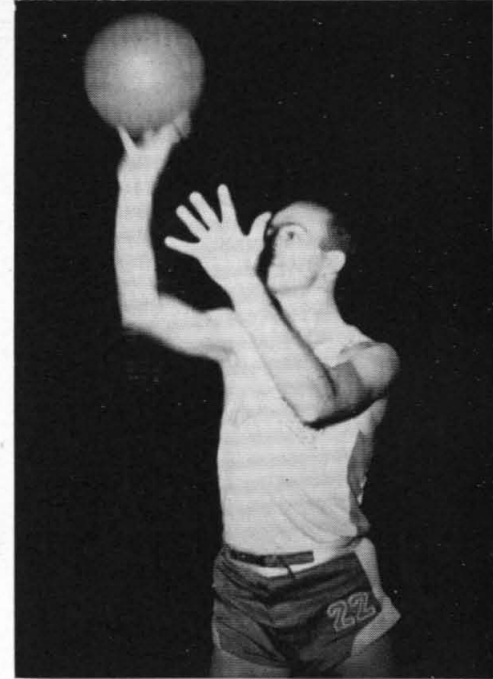
COACH SHY



BUTLER, PATAPOFF, GRAY



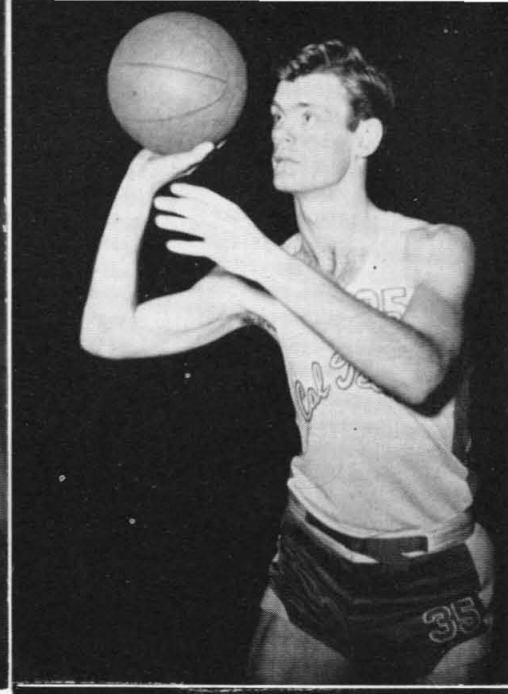
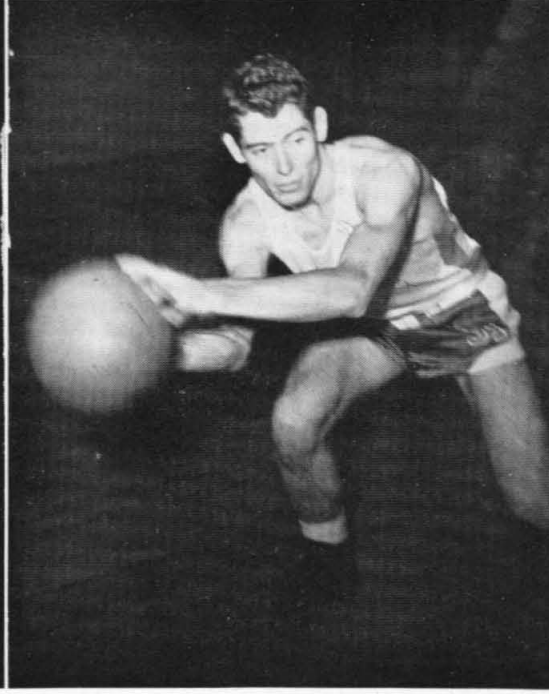
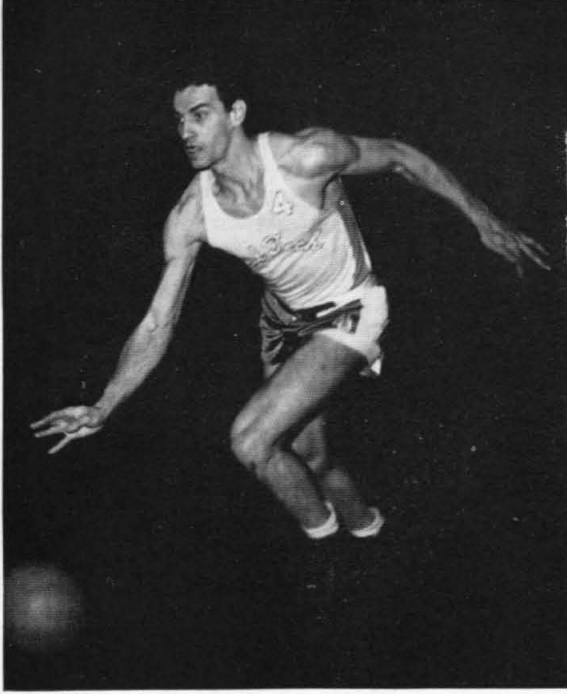
BASKETBALL



CASSIDY (Mgr.), MICHAELSEN, MOORE, LIBBEY, BUTLER, TAUTZ, ROGERS, STEVENS,
COACH SHY

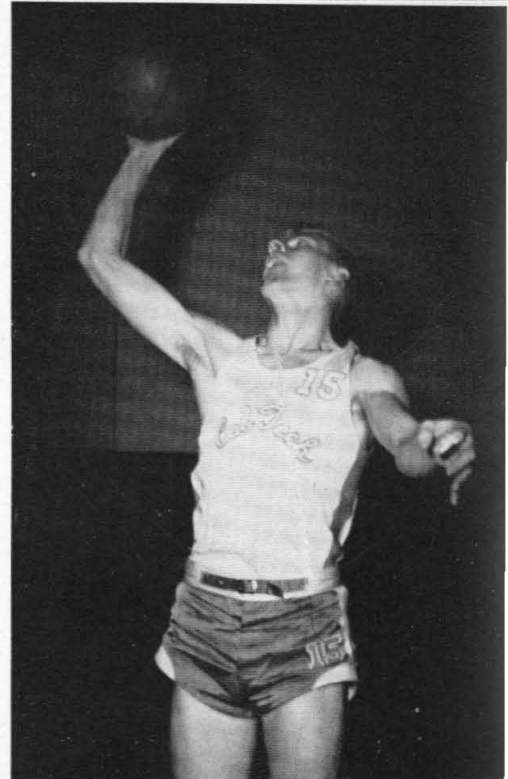
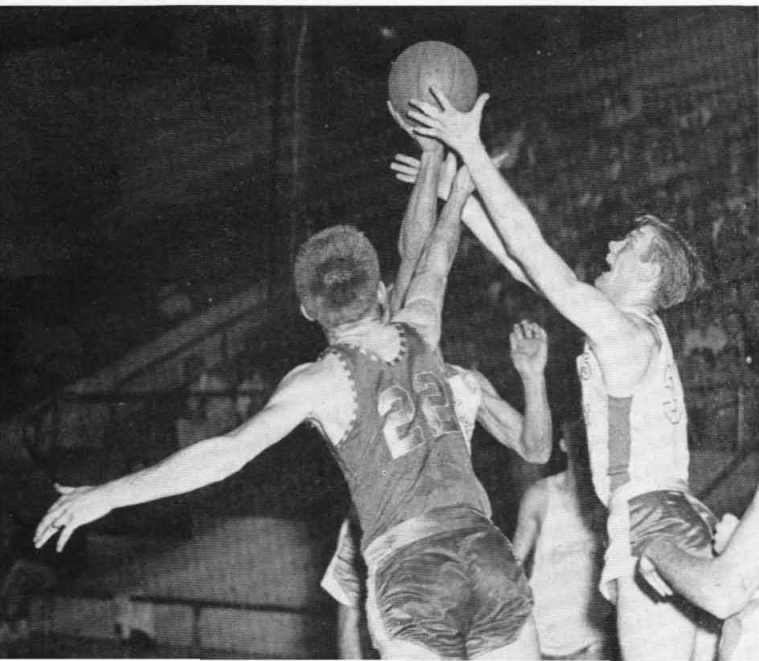
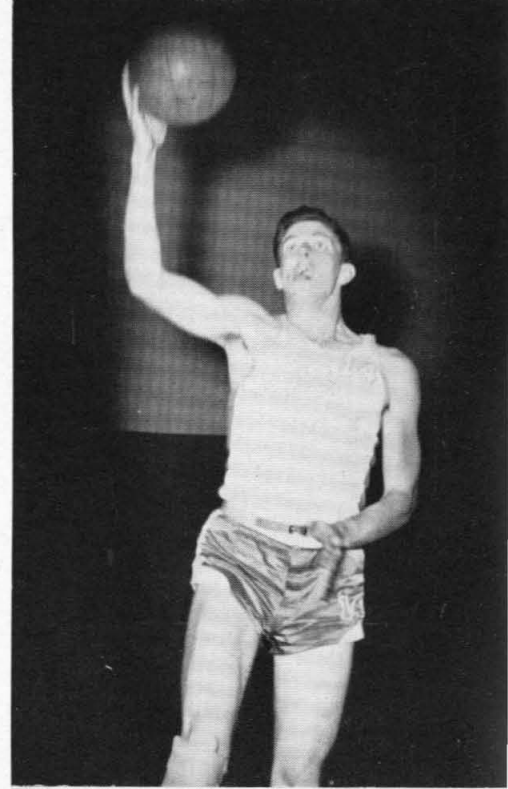
PATAPOFF, GEE, GRAY, STERN, DAILEY, SCOTT, IRELAND, SERENO





SERENO, GEE, MICHELSON
LIBBEY
TAUTZ

BASKETBALL



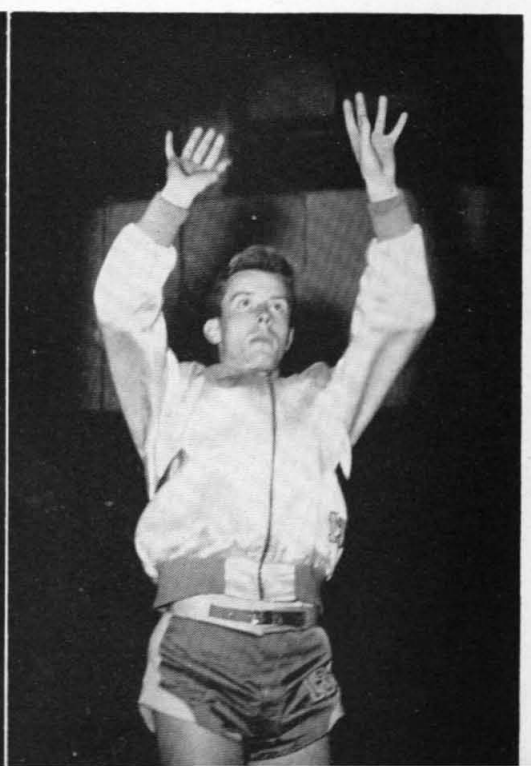
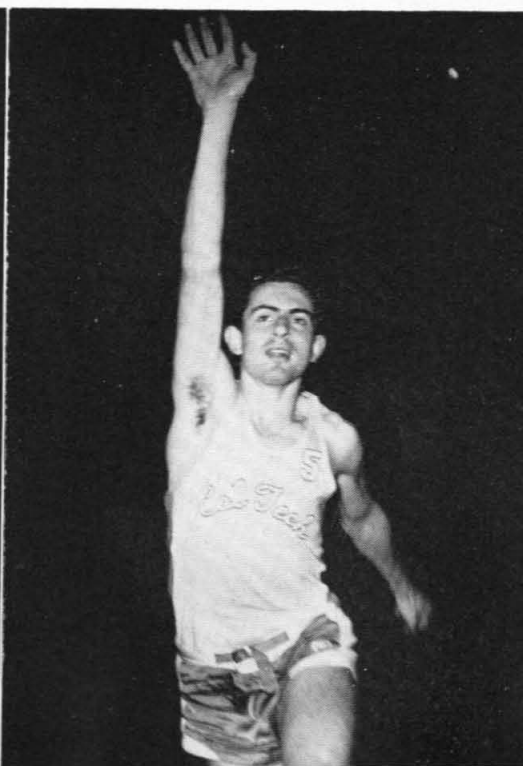
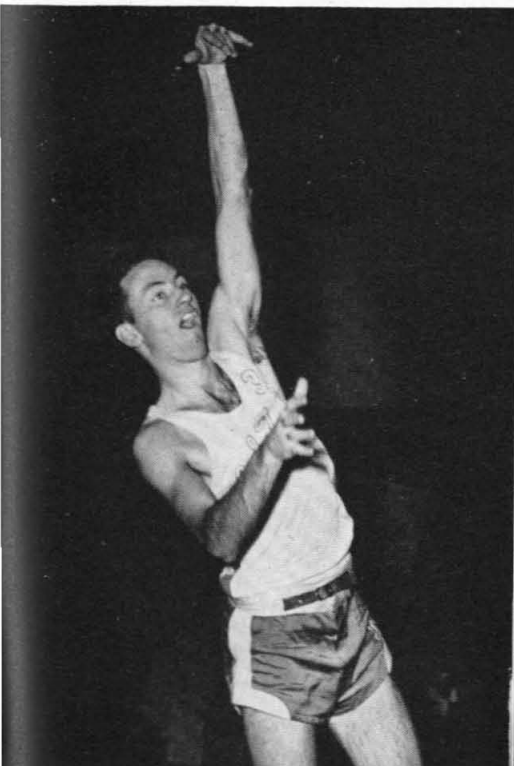


Scores:

Caltech		Opponents
41	La Verne *	56
35	Occidental	58
49	La Verne *	60
34	Redlands	49
40	Whittier	65
58	Cal Poly (S. D.) *	52
42	Chapman	72
45	LA State *	73
41	Pomona	45
57	Occidental	62
57	Redlands	55
52	Whittier	71
55	Chapman	88
52	Pomona	65
638	Totals	867

* Non-league.

STEVENS, STERN, IRELAND





SUNDT (Mgr.), VODOPIA, LYNAM, JOHNSON, ANSON, SMITH, HENDERSON, COACH PREISLER

CROSBY, TAYLOR, PLAMBECK, DONOVANVILLE, KAISER, PEYTON

FROSH BASKETBALL



Coach Ed Preisler's frosh basketball team also had a wealth of aspirants, but unfortunately most of them had little or no experience. Playing most of their games as prelims, they ran up a 3-7 conference record. Mainstay of the team was center Fred Anson, who piled up an amazing 27 point per game average, half of the team's total. In one game against Chapman, Anson piled through 45 points, more than the total scored by the opposing team.

Other outstanding performers for the casaba team were Curt Johnson, whose wicked hook shot dismayed more than one opponent, Charlie Plambeck, and Dick Smith. Back in the guard positions, Hugh Taylor, Lee Henderson, and Bruce Watkins helped break up plays under the basket.



TRACK

Hurt by the loss of several men before and during the season, Tech's team just couldn't seem to win one 'till late in the season. At the start the team took third in the Conference Relays in which Oxy showed their strength. Score was Oxy 67, Redlands 29, Caltech 14, Whittier 7.

The next meet was at Redlands, and while the team put up a good fight, they just didn't have enough to get by a strong Redlands team which won 77-54. Features of the meet were five sweeps, Caltech's in both hurdles, and Redlands in the 100, 220, and pole vault.

Then came Easter vacation, and immediately following a triangular meet with Muir College and El Camino J. C. Muir managed to take the measure of the Tech team, but we did beat El Camino. Score was Muir $72\frac{3}{4}$, Tech 61, El Camino $28\frac{1}{4}$.

Then occurred the debacle—the Oxy juggernaut rolled over Caltech, 116-15. Tech couldn't get a first, and got only three seconds.

Just to show that they weren't discouraged, the team bounced back to get by Whittier, 69-62, in a real battle. Whittier led most of the way, but a sweep in the low hurdles gave us the meet.

Prospects are good for the Pomona meet, and as for the Conference meet, who can say?

COACH LA BRUCHERIE





COACH LA BRUCHERIE, TAUTZ, PILKINGTON, KLEIGLE, IRWIN, WAID, STEPHANIDES, MUEHLBERGER, WOODY, COACH TYSON;

HEACOCK, PARNES, SHAKESPEARE, STEVENS, JORDAN, MIDDLEBROOK, JOHNSON, MASON, DICKENSON;

MANAGER DRAKE, KAMEI, WALKER LATOURRETTE, RIGGS, MOORE, AAGAARD, MANAGER COBB

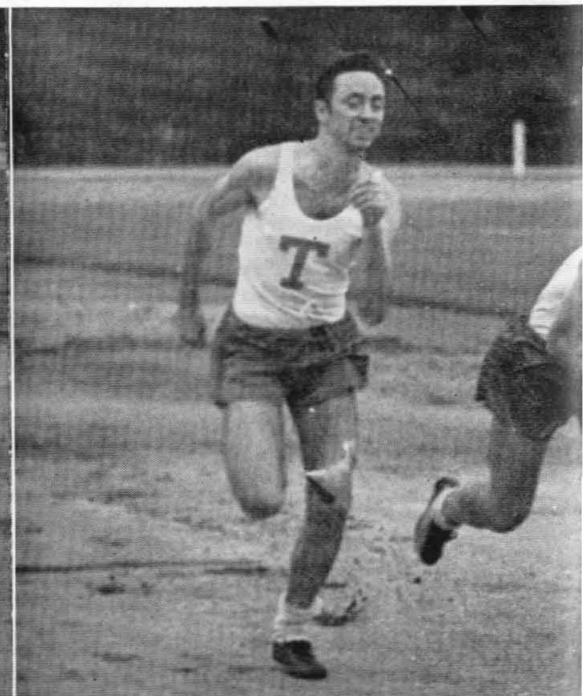
TRACK

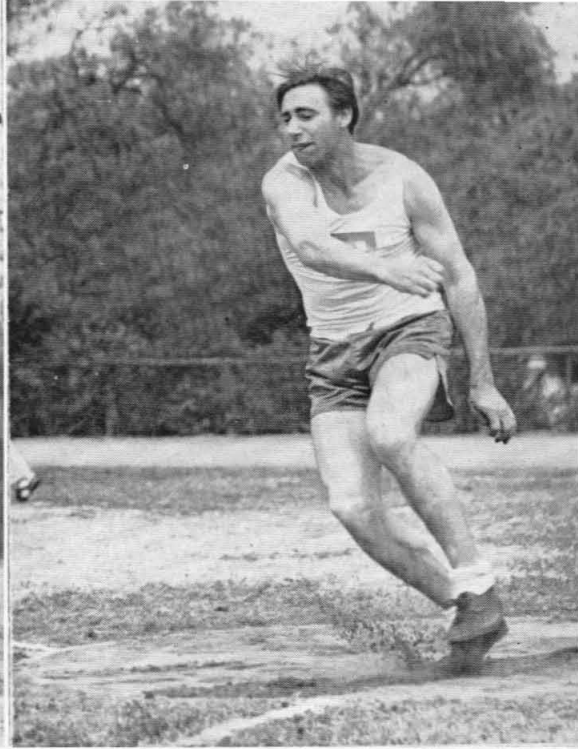
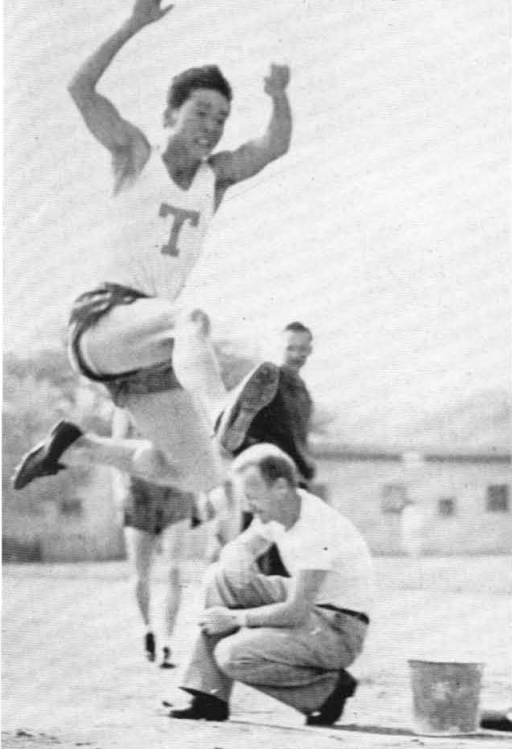
Best all-around man on the Tech team was no doubt Bob Waid, who ran the high and low hurdles, broad jumped, high jumped, and occasionally ran the sprints or a leg in the relay. Bob broad jumped 21'10" this year so far, and nearly always managed to score at least 10 points.

The hurdles duo of Bill Irwin and Jim Kliegel raked in many points for the team. Jim especially has improved over his frosh year.

Al Johnston in the 440, Paul Aagaard and Bob Parnes in

MASON, PILKINGTON, STEVENS





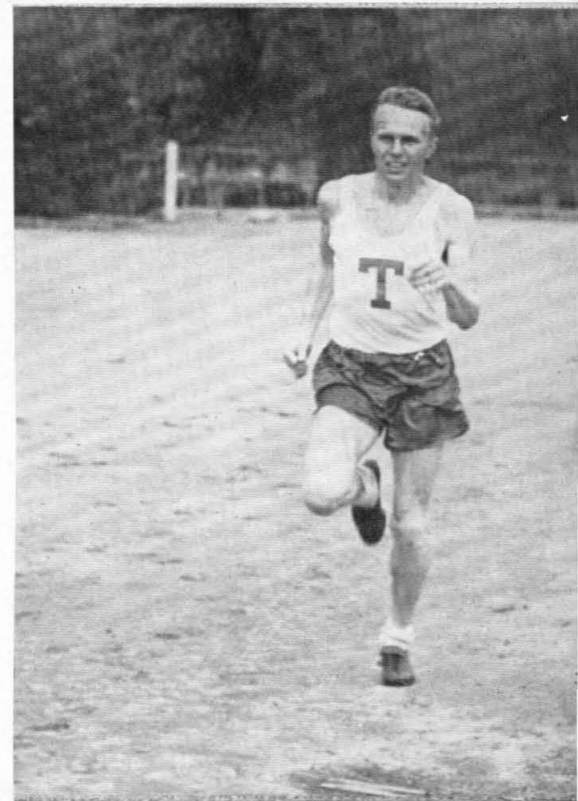
KAMEI, WAID, WOODY, AAGAARD

the 880, and Pete Mason in the mile and two mile took plenty between them. Pete managed to pick up two double wins at this writing. He says he's a sick, tired old man.

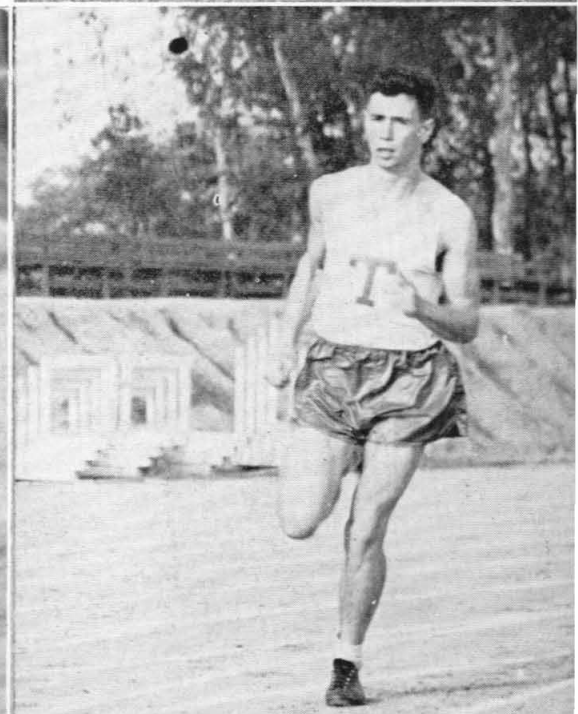
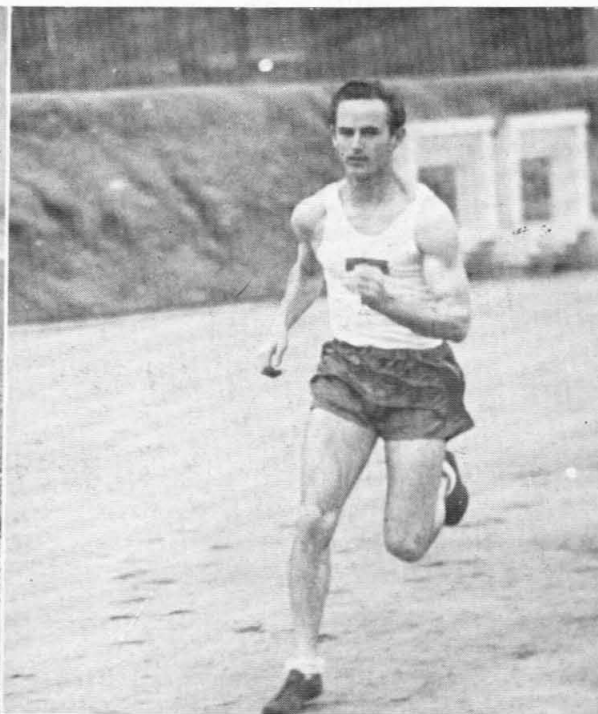
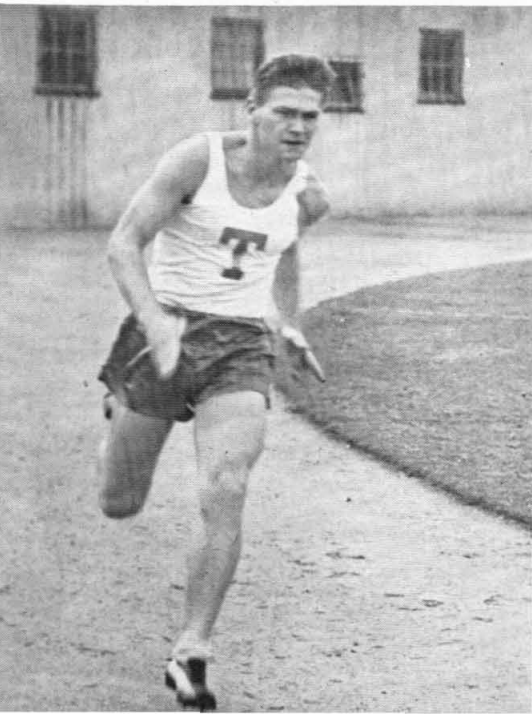
Don Tautz improved greatly in the pole vault, going over at 12'6", bettering his personal mark of 12'0". In the javelin Sam Middlebrook and Neil Stephanides are battling out for the most improvement. John Noble was throwing a nice 174', but he unfortunately departed after second term.

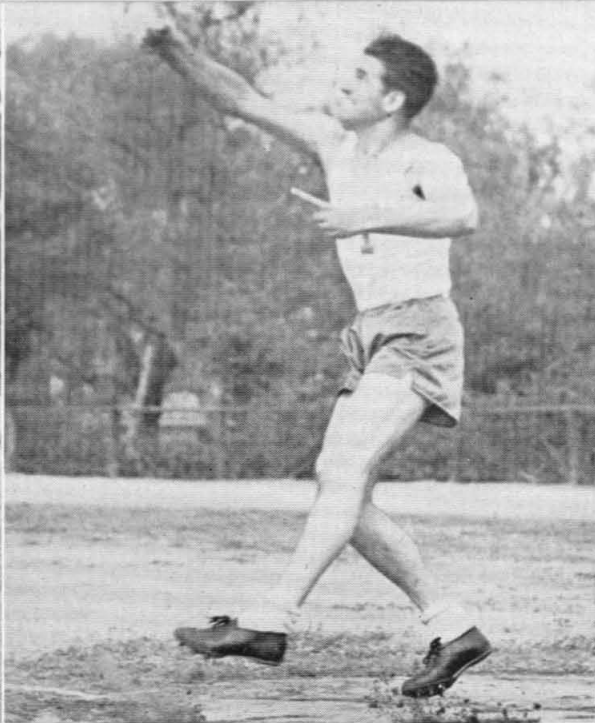
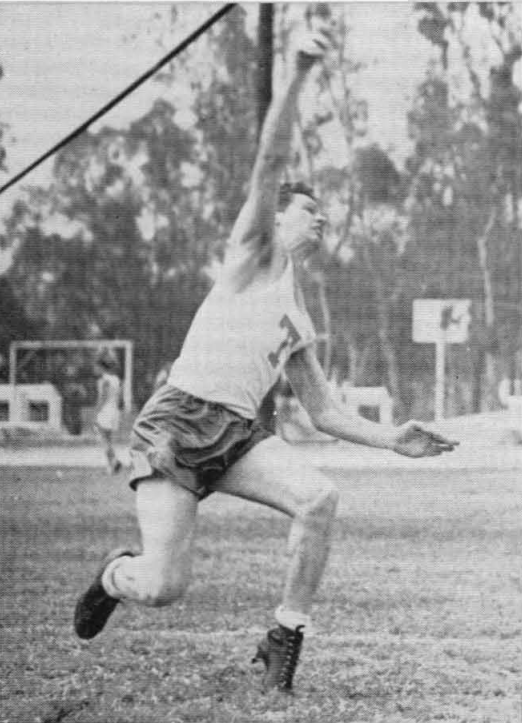
In the shot and discus Ray Heacock showed tremendous improvement, getting out to 128' in the discus, while Hal Woody turned in for steady good performances in the weights.

A mile relay team consisting of Jim LaTourrette (also a sprinter), Al Johnston, Bob Parnes, and Dave Stevens has been in there providing tough competition.



JOHNSON, LATOURRETTE, PARNES

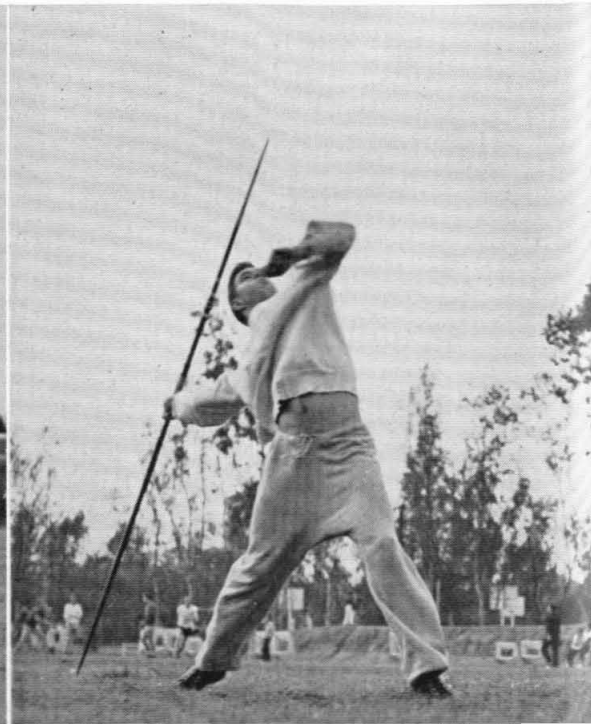
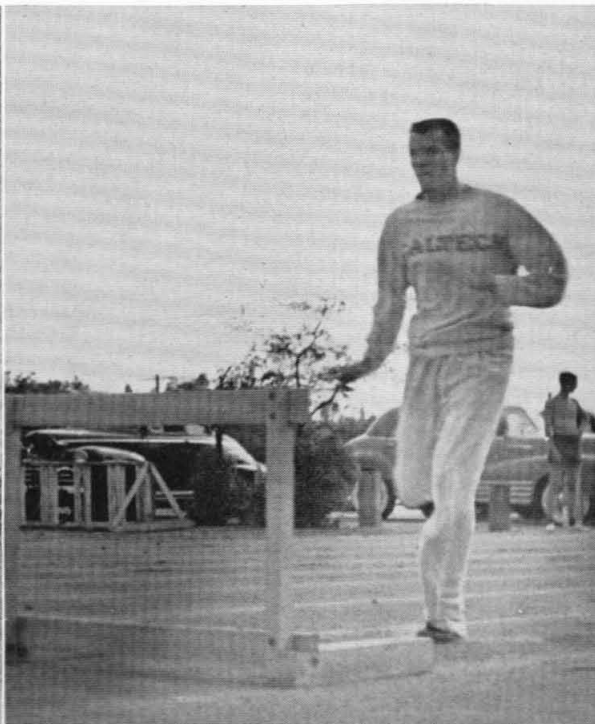
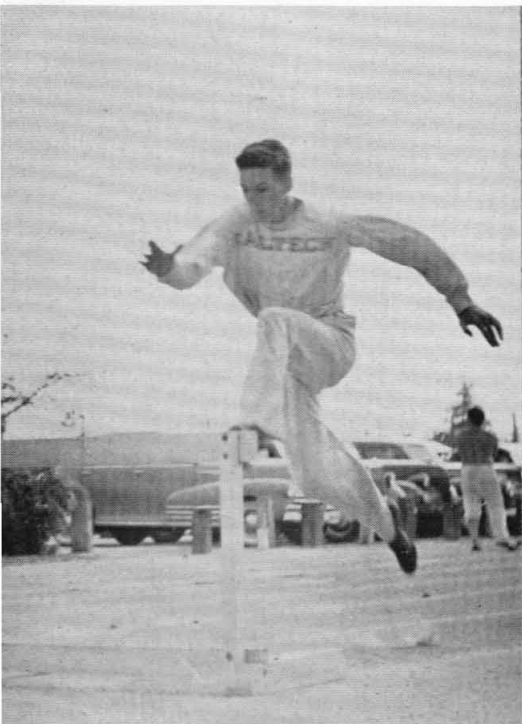




MIDDLEBROOK, HEACOCK, TAUTZ

TRACK

KLEIGLE, IRWIN, STEPHANIDES



FROSH TRACK



The frosh track team started out the season with a second place to Oxy at the conference relays, held at Occidental. Showing fair strength in all the field events except the pole vault, and with a pair of good dash men and a hurdler, they seemed ready to provide stiff competition for their dual opponents.

Bruce Munn and John Lloyd in the dashes proved a hard combination to beat. Keith Campbell, running both hurdle events and doing the broad and high jumps, usually ended up with a pile of points. Tom Kirkpatrick showed promise in the middle distances, while Paul Cramer took on the longer runs. Earl Evleth and Gene Kaiser were worth eight points in the shot put in most meets, while Cole Williams whirled the discus and Dick Hodges tossed the javelin.

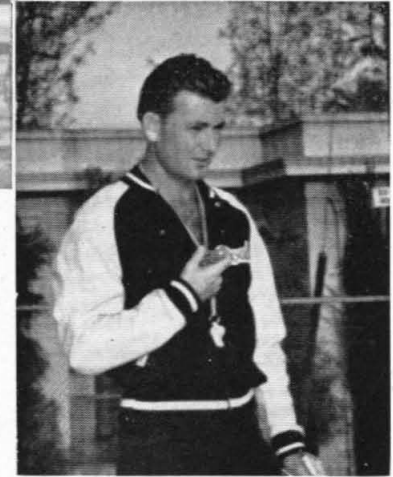


COACH LA BRUCHERIE,
PARKER, KRAMER, VODOPIA,
MUNN, HODGES, KIRKPATRICK,
KAISER, CORBIN;
MANAGER DRAKE, CAMPBELL,
GAUSS, EVLETH, DRYDEN,
LLOYD, BIRKLAND,
SMITH, BROOKS



COACH GARMAN, RAMBOW, WEIL, OGILVIE, LIBBEY, CONNOR, VON HERZEN; WYMAN, MERTEN, STOFEL, VICKMAN, HOUSER, REED, MANAGER JACOBS

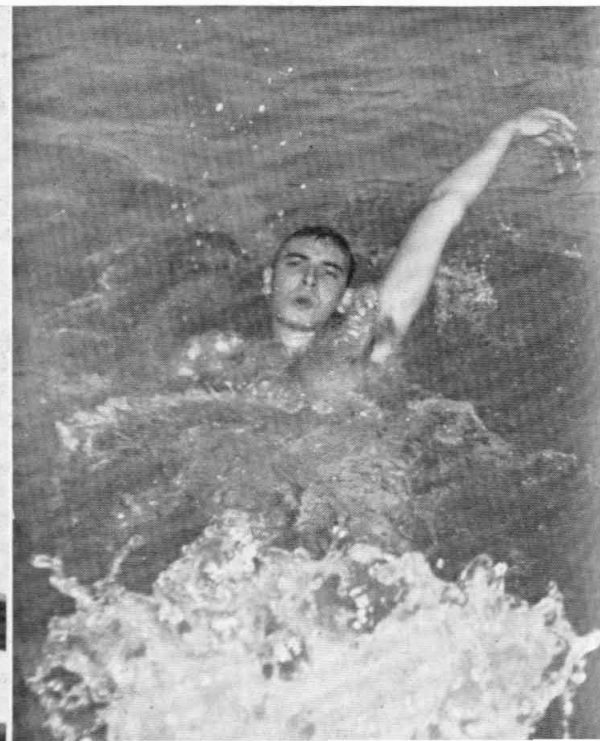
COACH GARMAN

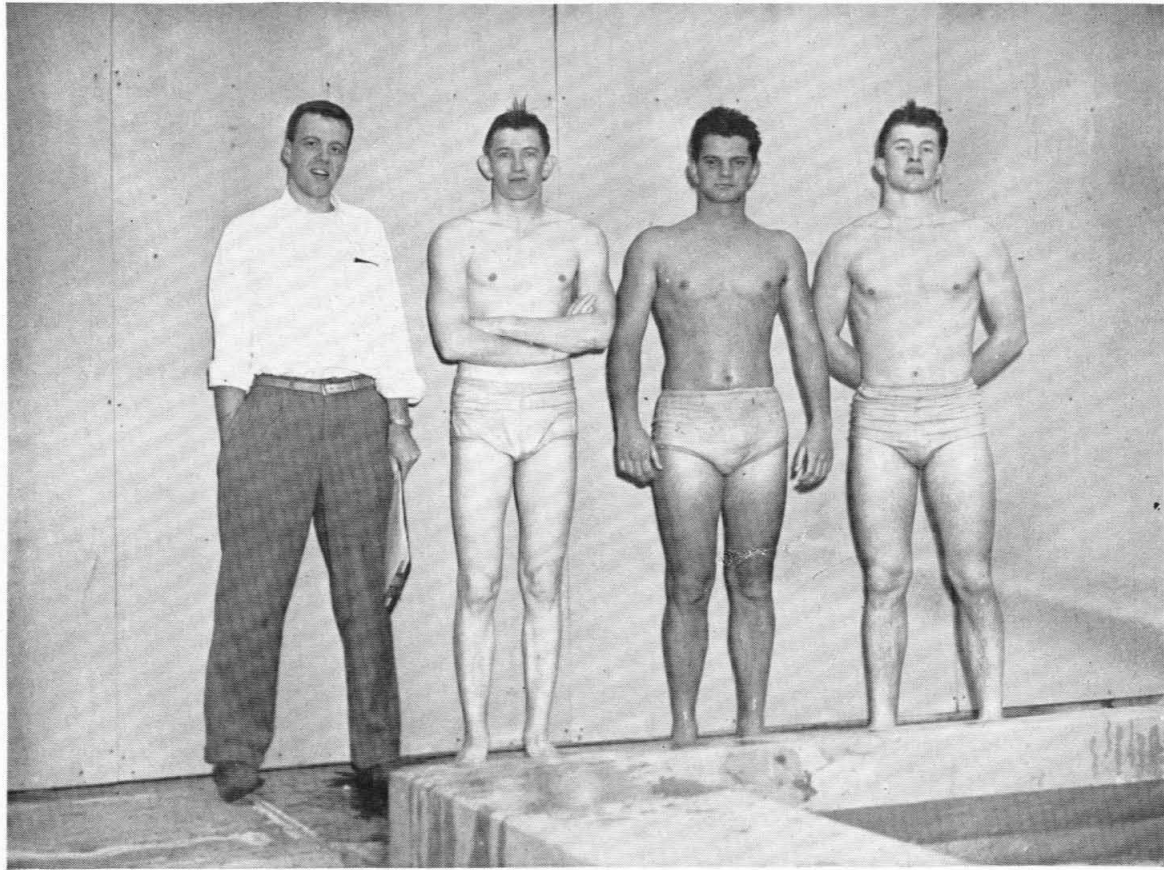


SWIMMING

First place in the conference is the goal of this year's swimming team. Under the coaching of Don Garman they have already defeated every team in the league but Oxy by at least 25 points. With the best pair of sprinters in the conference and a strong team in all the other departments, hopes are high that the Tigers will also fall. Our depth in almost every event may be the deciding factor. Libbey, von Herzen, Weil, Connor, and Houser are the mainstays of this year's squad. Among them they have taken almost every first place in all the meets so far this year. With only Libbey, Houser, and Merten leaving by the graduation route, prospects are good for the following year.

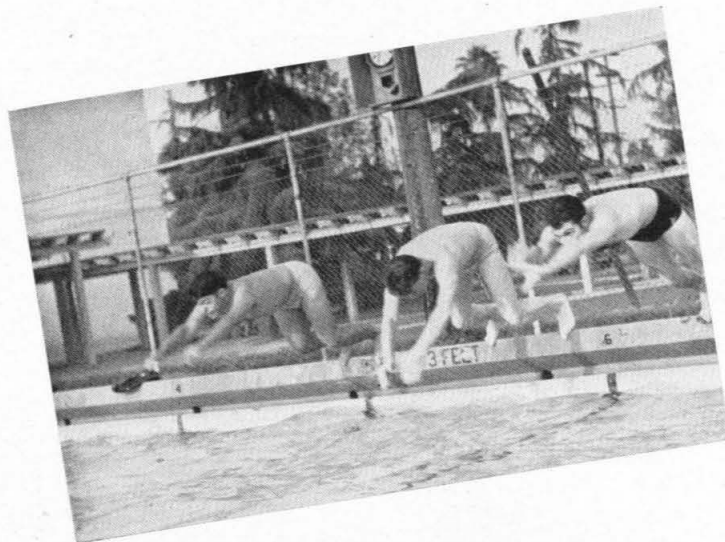
MERTEN, WEIL





COACH ENSLOW, ELLET, PERIGAO, BRYAN

FROSH SWIMMING



TENNIS

LA FLEUR



BAIER



WELCH



Tech's netmen got off to a rather slow season and at the end of the first round of conference tennis matches failed to score a win. As we go into the second round Redlands looks very good, especially after taking Tech by a 9-0 margin. The team to beat seems to be Whittier, who barely edged Tech out with a 5-4 score. Matches with Pomona, Santa Barbara, Oxy, L.A. State have rounded out the current schedule.

Big gun on the Tech tennis squad was the first doubles duo of Jack Martin and Palmer Smith, winner of last year's Scott Trophy. These men seem to be winning rather consistently. Berk Welch was team captain and coach was John Lamb.

IRELAND



MARTIN



P. SMITH

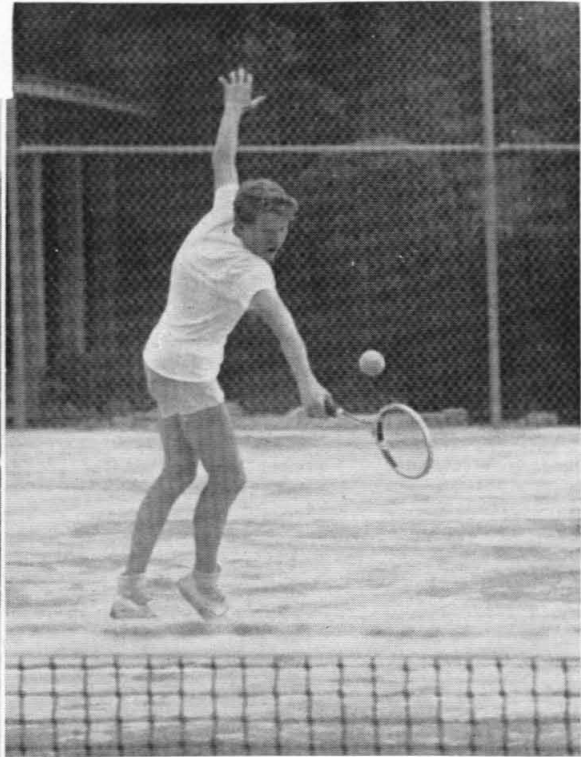
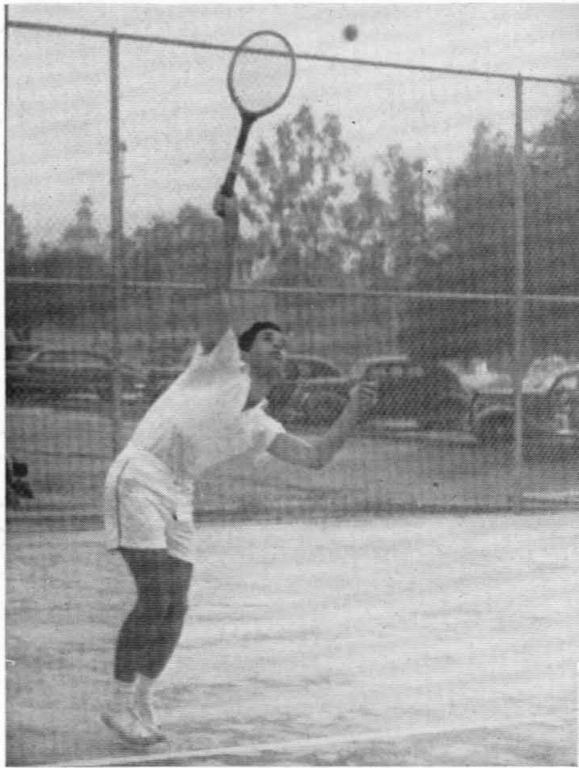


COACH LAMB



EMERY, MARTIN, IRELAND, P. SMITH;
WELCH, BAIER, LA FLEUR





KAISER, PATRAW

FROSH TENNIS

COACH WATERHOUSE



SARGENT, POTTER, PATRAW, KAISER, DAVIS, RICHARDS, JOHNSON,
COACH WATERHOUSE



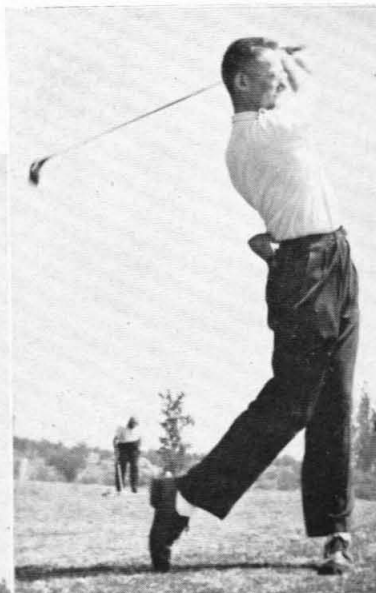


BLANCHARD, DAVIES, THURSTONE, HOLMES, PECK, HANNA

GOLF



PARDEE



THURSTONE



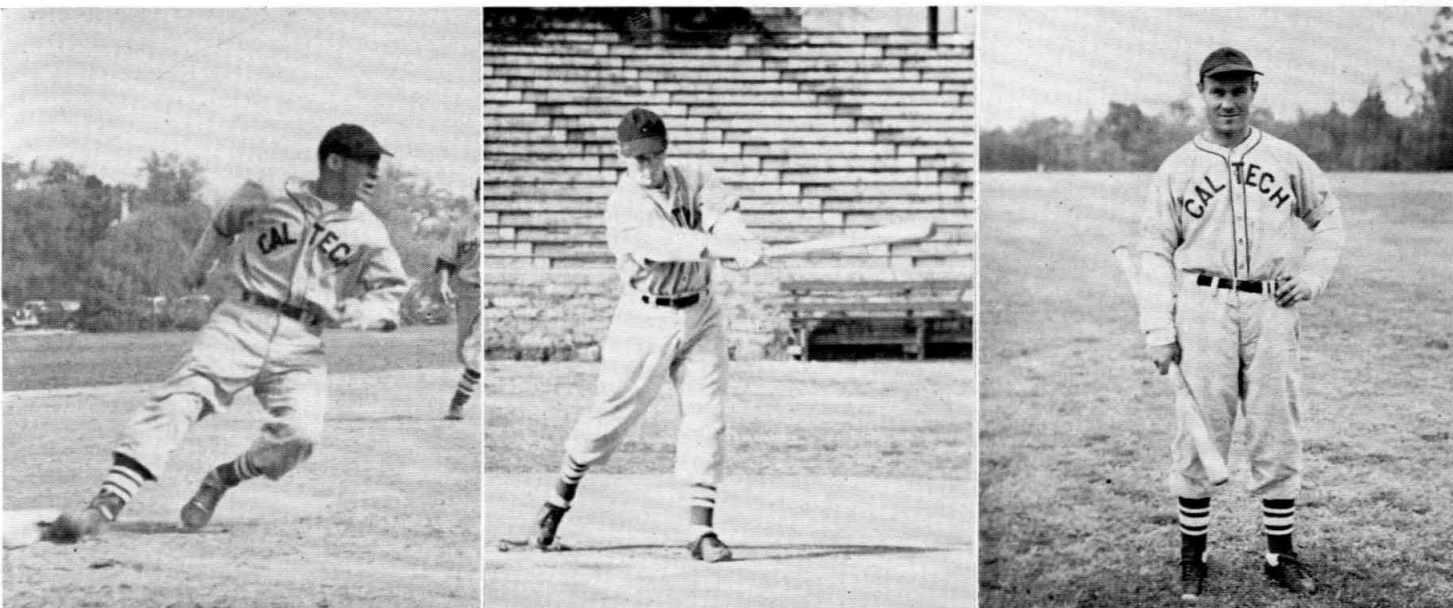
HANNA



SNIDER, HEDRICK, STEWART, WISE, STERN, JOHNSON, KOONS, WINSLOW, CONNER, GRAY, ED PREISLER—Coach
PITTON (Mgr.), DAILY, JOHNSTON, SAUER, PFEIFFER, SMITH, WILLENS, STALKAMP, KEIR, JOHN FEE (Mgr.)

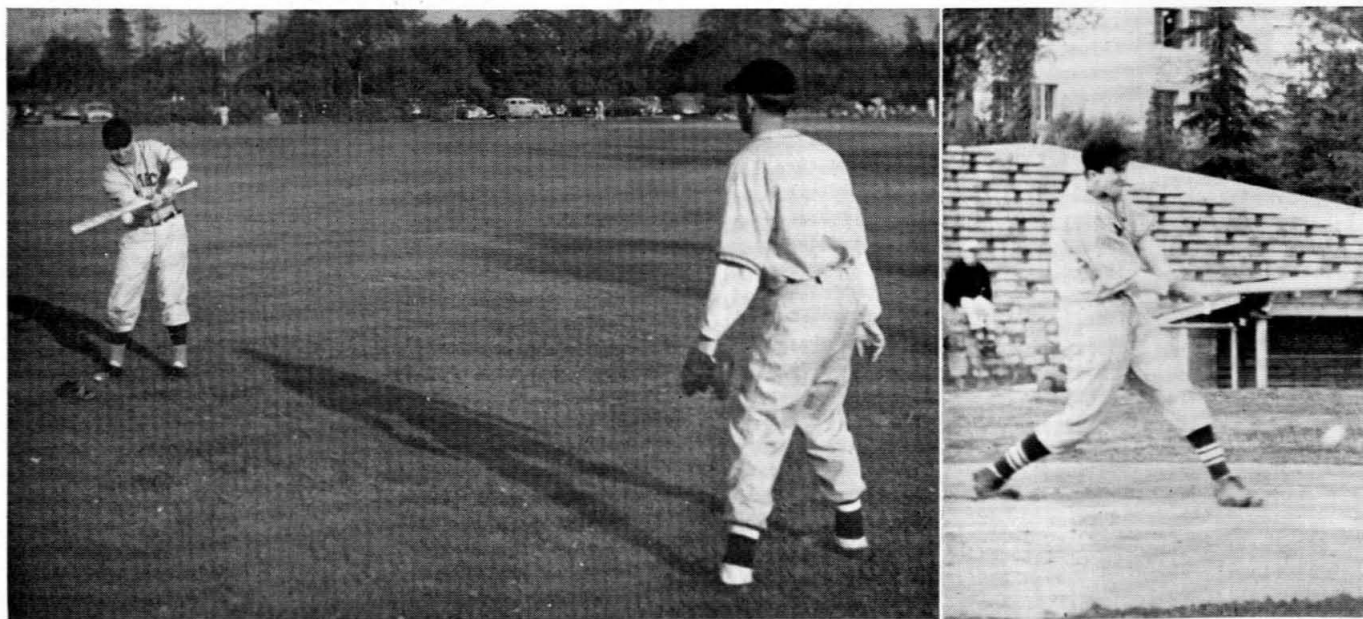
BASEBALL





PFEIFFER, STALLKAMP, COACH PREISLER

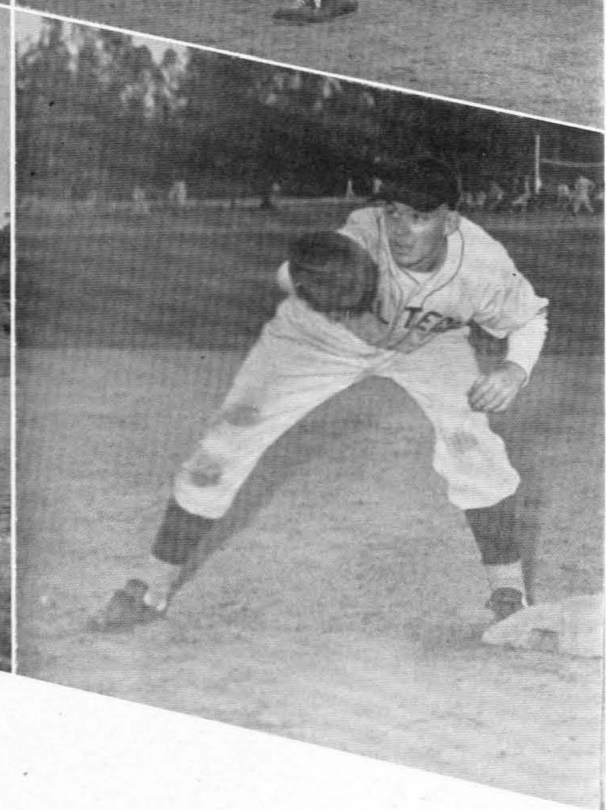
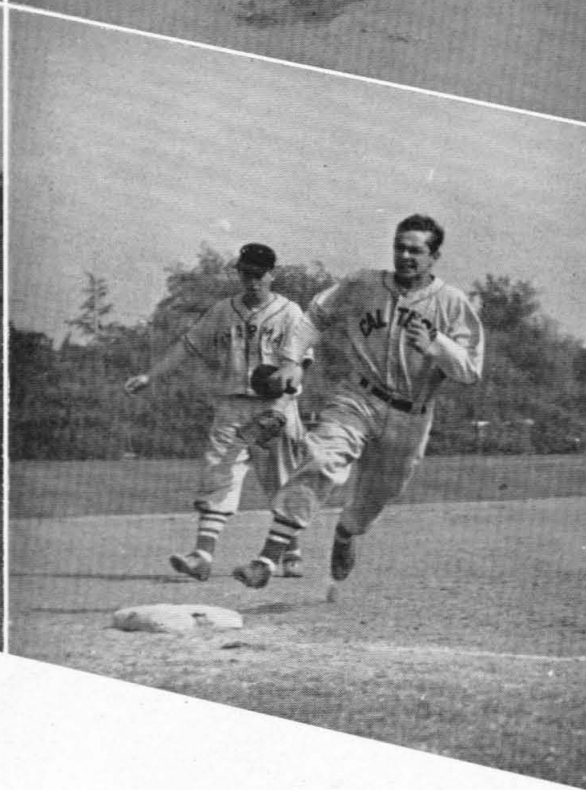
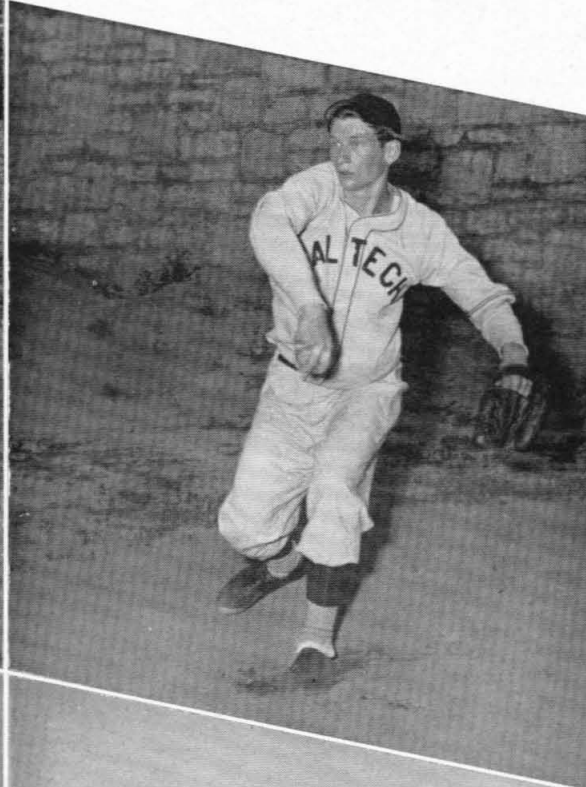
Caltech's baseball nine got off to a flying start this year to win two of its first three league games against Pomona and Redlands. The Pomona game went into ten innings before Tech was able to break the tie and win, 10-6. Against Redlands the Beavers won, 6-5. On the other side of the ledger the batsmen lost to Oxy, 12-5. This put Tech into a tie for second place as we go to press. The remaining games to be played in the first round are with Chapman, which is supposedly weak, and Whittier, which also has a 2-1 record. Non-league games won by Tech were with La Verne, 4-3; Cal Poly (S.D.), 10-1. Losses were to Cal Poly (S. L. O.), 6-5; LA State, 15-14, and Pepperdine, 16-8. These are, of course, but a few of the 27 game scheduled season which the Beavers will play. Prospects look good especially if the squad can improve their fielding, as their batting is at present very strong.



HEDRICK, GRAY, JOHNSON

BASEBALL

WISE, WINSLOW, NEVERMAN
KARASAWA, SNYDER, KOONS



The '51 edition of Tech's hard hitting baseballers was captained by Louis Stallkamp and Walt Pfeiffer and again coached by Ed Preisler. The pitching staff included Norm Gray, John Winslow, and Bruce Hedrick. Behind the plate was catcher Walt Pfeiffer. Dave Koons was first baseman, Roland Johnson patrolled the second base area, while Babe Karasawa was responsible for the third sack detail. Louis Stallkamp played short while left field was covered by Bert Snider, center field by Bill Wise, and right field by Duane Neverman.

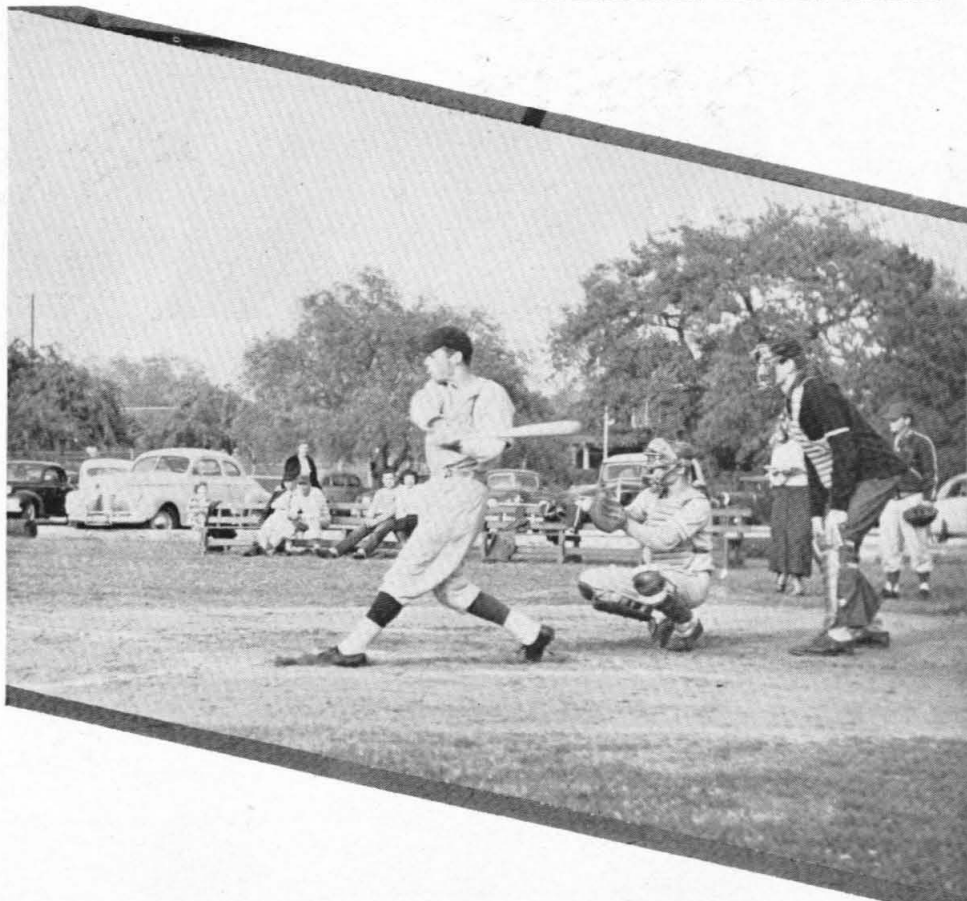
MILLARD, PECHACEK, CLARK, HOOK,
NICHOLSON, BELLINGER, STRYKER,
KIDDER, MANAGER ROSEN; COACH
DAVIES, GARRISON, SALKELD,
TURCOTTE, HENDERSON,
KAISER, SMITH



FROSH BASEBALL

Lack of experience popped up again to the detriment of the frosh baseballers. Under the leadership of Dick Davies, they started out the season with a painful 50-4 loss to Oxy, but bobbed back the following week to take an 8-7 decision from Redlands. With a little experience under their belts, they showed possibilities.

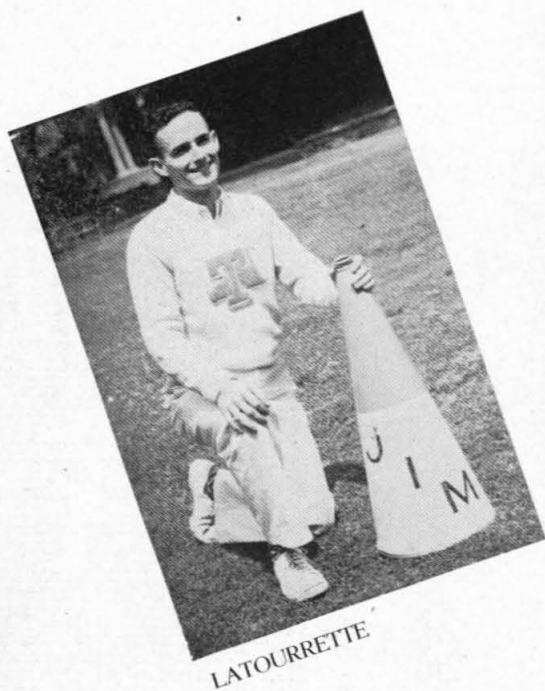
Wielding a big stick for the diamondmen was catcher Bart Stryker. Performing the mound duties was Bob Salkeld, with Don Hook backing him up. Around the infield were Bob Pechacek, John Kidder, and Fred Garrison, while snagging flies occupied the time of Dick Clark, Lee Henderson, and Don Turcotte.



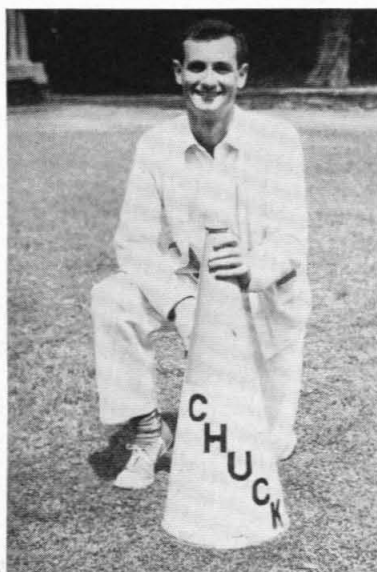


LATOURRETTE, MILLER, VICKMAN

YELL LEADERS



LATOURRETTE



MILLER



VICKMAN

INTERHOUSE SPORTS

As we go to press the Interhouse Trophy race is drawing to a rapid close. With football season already started, and volleyball the remaining sport, Throop is ahead with 103 points against Blacker's 94½, Dabney's 84½, Fleming's 77½, and Ricketts 57½. A win in football would insure Throops winning the trophy.

The first sport of the season, baseball, was won by Throop, who copped all four of its games. Blacker and Fleming were tied for second with a 2-2 record while Dabney and Ricketts tied for third with 1-5. Blacker took over the lead by taking a second in the cross-country competition. Ricketts was the winner by placing Smyth and Shakespeare first and second in all three runs. Dabney was third, Fleming fourth, and Throop did not enter.

The final sport of the first term was basketball, which was won by Dabney followed by Throop, Fleming, Blacker, and Ricketts. The season was very good with several of the games going into overtimes and some very close scores including a 26-25 victory for Fleming over Blacker. High scorers were Leon Michaelsen, Bob Packwood, Fred Anson, and Sandy Sweet.

As the first term came to a close the Interhouse standings were Throop 45, Dabney 41½, Blacker 39½, Fleming 38½, and Ricketts 27½.

Blacker emerged victorious in the tennis tourney making a clean sweep of all its matches. Softball ended in a deadlock between Blacker and Throop each losing a game. Dabney and Ricketts tied for second with Fleming taking the cellar.

Throop showed superior strength in amassing 52 points to win the Interhouse track meet. Fleming was second with 42 points followed by Dabney 33, Blacker 24, and Ricketts 5. In winning the meet Throop took six of the fourteen first places.

Dabney completely ran away with the Interhouse swim meet by totaling 58 points to second place Blacker's 24. Fleming had 22, Throop 19, and Ricketts 17. The Darbs took all the first places except the 4-man relay which went to Blacker. Frosh Norm Ellet established a new Interhouse record in the breaststroke event by beating the nine year old record by 0.6 seconds.

Thus at the end of the second term Throop is still ahead by the above mentioned score. Competition is keen in football and Throop has won its first game with Dabney, 8-6. Blacker lost to Ricketts, 12-0.

The Discobolus has been wandering as usual, and has been seen on all the houses' mantels. Throop has been making effective use of a strong handball team in maintaining possession while Blacker and Ricketts engaged in a soccer duel (which ended in a deadlock) on one occasion.







HOUSES



MASTER OF STUDENT HOUSES
GEORGE K. TANHAM

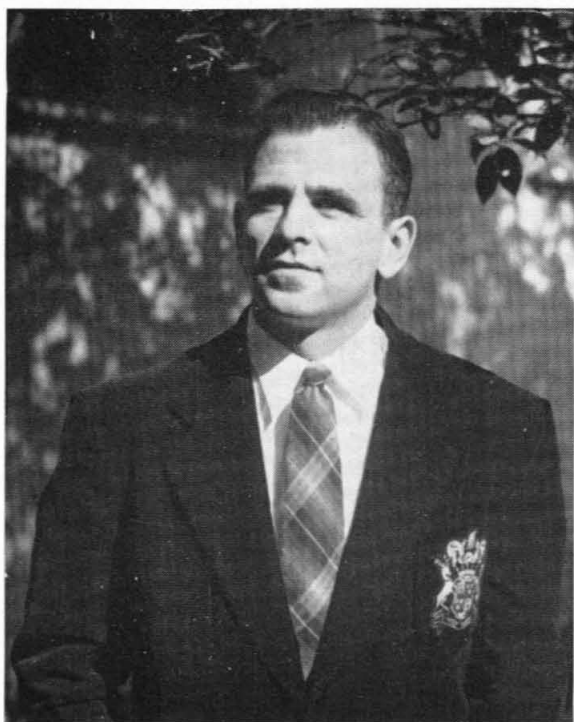


RA'S

BLACKER—CAREL OTTE



DABNEY—DON NORRIS



FLEMING—NORM BULMAN

RICKETTS—DAVE MASON





GOERKE, DESTABELLE, LIBBEY, CATTERLIN, ENSLOW, PINGS
WOOD, NEVERMAN, PECK, HEFNER, STRATTON

I
H
C

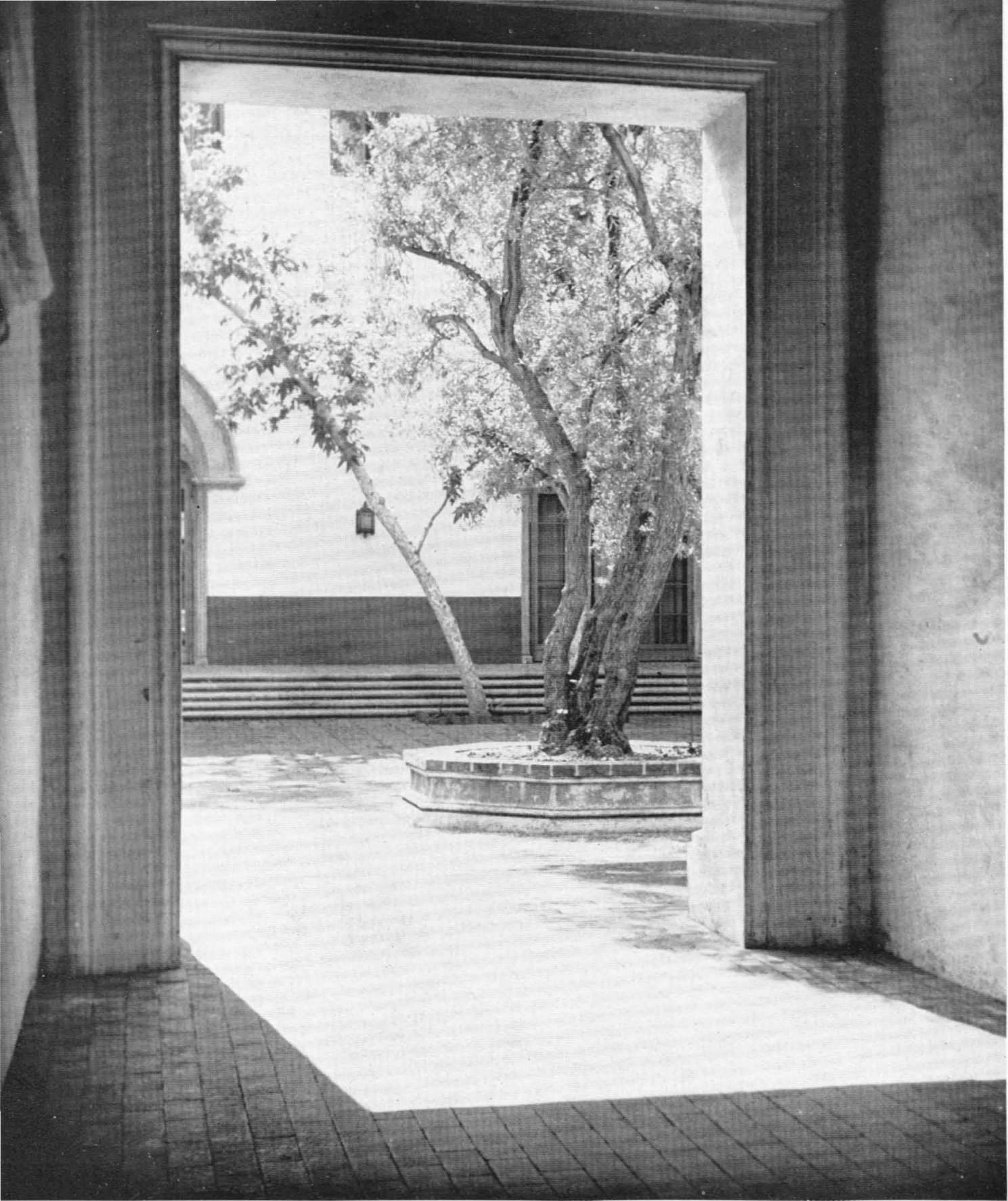
MRS. LANG, MRS. HALE, SUE HUCK, MRS. TYREE
GLEN GREEN



O
F
F
I
C
E



INTERHOUSE DANCE



BLACKER



EARL HEFNER



HEFNER, STEFANIDES, CATTERLIN, KAMEI

The year 1950-51 has left its mark on Blacker House. There are new waterspots in the Tunnel, new names in any number of little black books and a large family size bottle of Hadacol in Stan Groner's medicine cabinet.

Casting only the most casual eye around Blacker it would be impossible to overlook the Tunnel. Indeed, the usual case is that its fame, or perhaps notoriety is a better word, has preceded it. It has been reported that dates of Dabney men have surreptitiously whispered to their escorts, "The hell with the television set, I want to see the Tunnel!" Noted not only for the "Tunnel Rainmaking Society," the "South-east Rocket Testing Grounds," and the "Saturday Evening Bowling and Hockey Club" the Tunnel claims as its native son Leo Baggerly, Treasurer of the Caltech Y and Chairman of the Southwest Region Student YMCA.

Just a stone's throw and around the corner we happen on to the Annex and the home of the one and only Art Cuse, a fine First Rep for ASCIT. As Blacker Pope he has brought peace to all through his inspiring spiritual guidance. Also making his abode here is Ray Gruetert. As Co-Athletic Manager, Ray and his fellow Co, Don Tautz, have led Blacker through a fine season of Interhouse sports. Starting off with a tie for second in baseball, a second place in cross-country, continuing with a rousing first in tennis, and a Throop-Blacker tie for first in softball, the Blacker teams have pulled in enough points to put the House in second place for the Interhouse Trophy. With strong hopes for first rank swimming, football, and volleyball teams Blacker will not be at all adverse to making room on its mantle for another trophy if the need should arise.

Buck Rogers?



Guess whose bed sheets





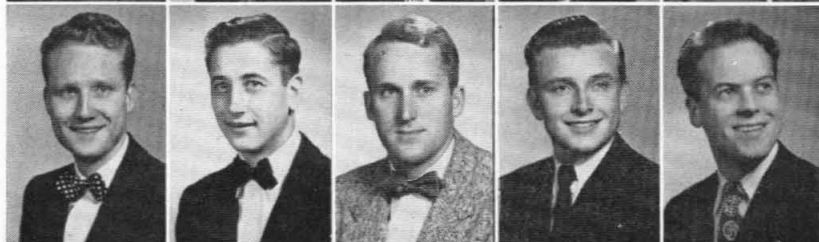
JOHN ABBOT
 JOHN AMES
 DAN APPLEMAN
 FRED ARMITAGE
 LEO BAGGERLY



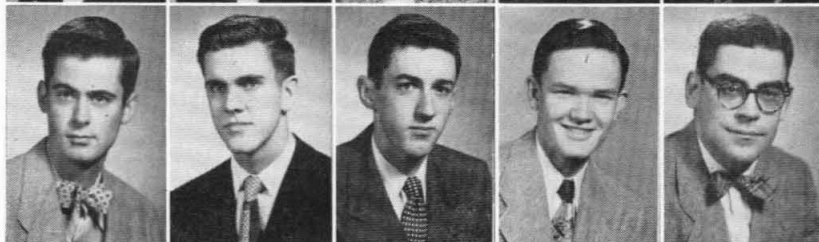
CHARLES BATES
 ROLAND BERNER
 BARNEY BETZ
 CHEK BEUF
 SWAROOP BHANJ DEO



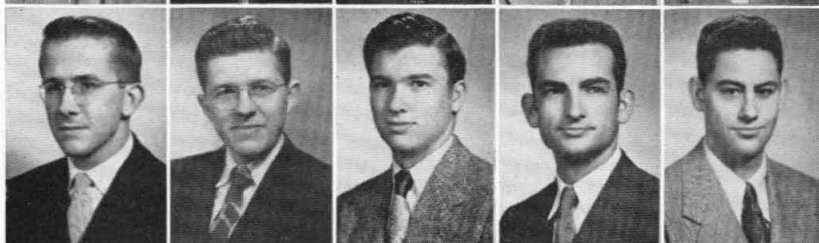
BOB BLAIR
 BILL BLODGETT
 JOHN BOPPART
 ANDY BOUSCH
 RAY BOWERMAN



FRANK BUMB
 SHERMAN BUTLER
 THORNE BUTLER
 DON CATHCART
 KYLE CATTERLIN



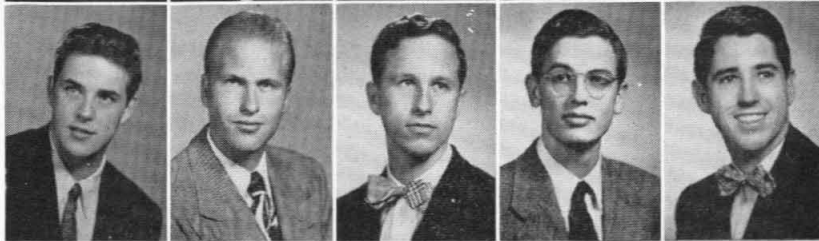
JACK CHRISTOPHER
 DAVE CLARK
 BILL CONNOR
 JIM CROSBY
 ART CUSE



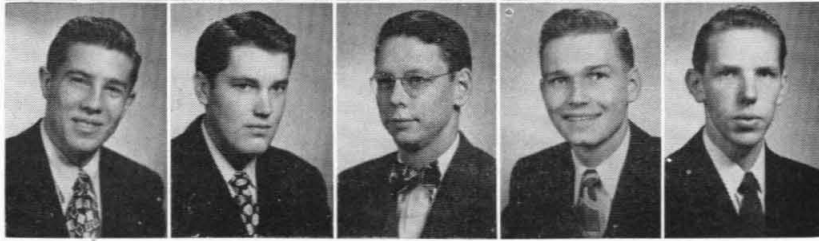
CHUCK DAVIES
 BOB DEGRASSE
 FRANK DRYDEN
 LES EARNEST
 LEON EDELSON



THEODORE EINWOHNER
 JIM ENRIGHT
 JOHN FEE
 ED GAUSS
 ERNST GEHRELS



JOHN GOETTEN
 RAY GREUTERT
 STAN GRONER
 TED HARRISON
 EARL HEFNER



JIM HENDRICKSON
 FRANK HESTER
 CARL HILDABRAND
 DON HOOK
 DICK HOSEGOOD

BLACKER



Swing your partner



Frosh

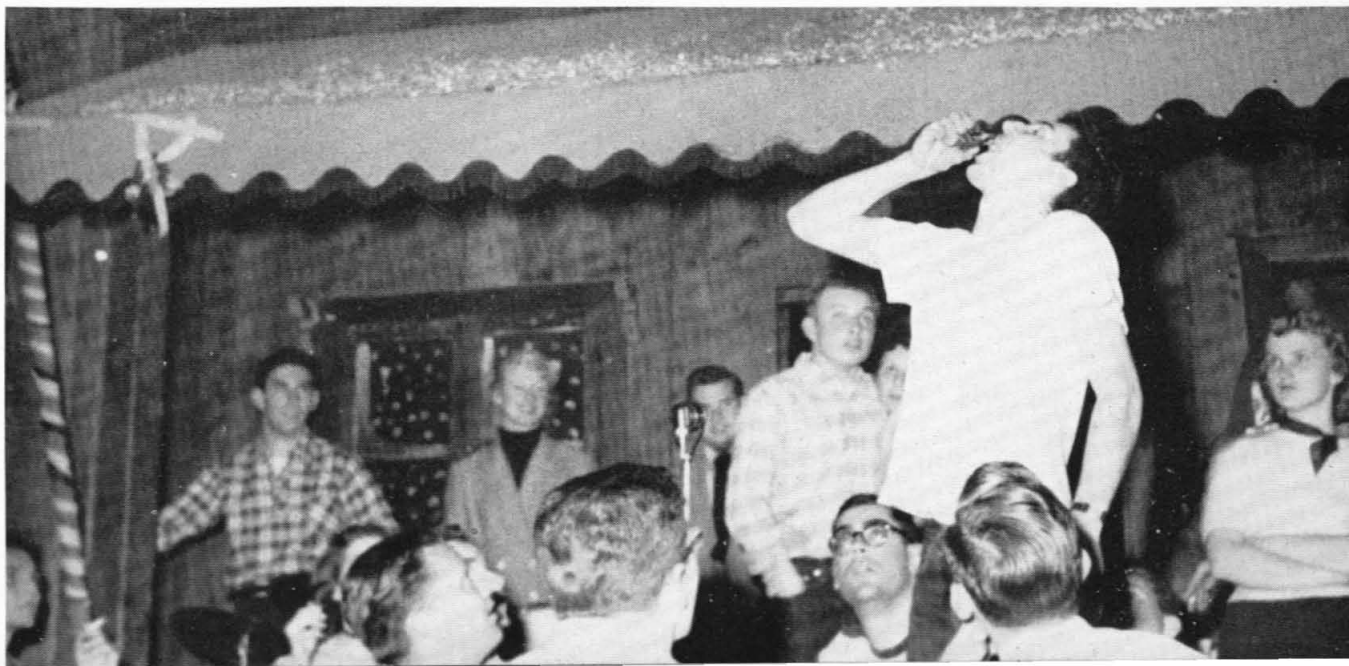
On our left we have the icebox but going to our right and up the stairs we approach that exclusive club, Whispering Cans. One night spent in the alley would explain the name; every morning at some ungodly hour the milkman clatters into the delivery-way immediately below. Whispering Cans is noted for its fine old custom of serving coffee and cake every evening. Frank Bumb and John Fee went so far as to get engaged to insure a steady supply of homemade cakes. The aforementioned Fee not only possesses the only electronic, perpetually flashing hat in the Student Houses but he is also Senior Class Prexy. His roommate, Hiroshi Kamei, has been eminently successful as House Treasurer, due no doubt to the fact that the open toed sandals he often wears make his toes, as well as his fingers, available for counting.

Down the stairs again and we give a passing glance to the Hole where House Librarian Bill Pilkington and Co-Athletic Manager Don Tautz are reputed to pass the time.

Into the courtyard and up again we go for a peek at Upper and Lower Frosh alleys. UCCs Chas. Bates and Don Schmid, of gridiron fame, rule with an iron hand, but there despotism is a benevolent one—coffee every evening. A man of note here is Frank Joyce, recently voted by unanimous acclamation the "Freshman most likely to." The individual shouting "Good God, I'm ruined! My stocks just fell another quarter point," is that Wall Street financier Thorne Butler, also known as a terror on the basketball court.



Looks good





BLACKER

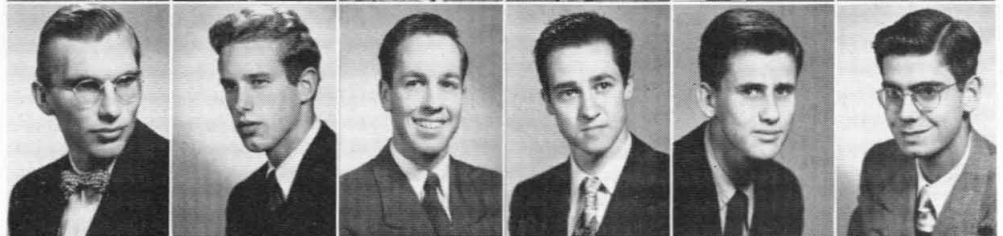
We next make our way to that traditional home of the great, Upper and Lower Presidential alleys. First citizen of Lower Presidential is, of course, Earl Hefner. Whatever natural tendencies he may have towards graft and corruption have been concealed quite successfully during the past year and he can look back on a year of solid achievement for Blacker.

In Upper Presidential Sam Middlebrook, one of the Co-Chairmen of the notorious Blacker Social Committee, takes his ease. It is suspected that this graft-ridden group of wilful individuals take off on an opium jag before brewing up their nefarious plans. The amazing thing is that Ed Pyatt, the other half of the "Despicable Duo," has never lost an assessment; the troops come back again and again to take part in a social program that is punishing to even the individual of strongest constitution.

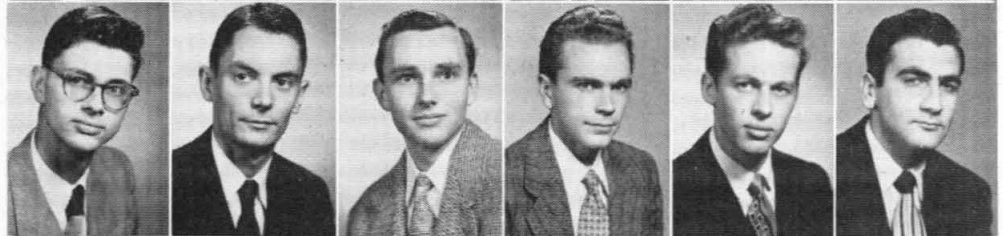
JOHN HOWELL
 EARL JACOBS
 ALAN JOHNSTON
 FRANK JOYCE
 HIROSHI KAMEL
 BOB KOSTER



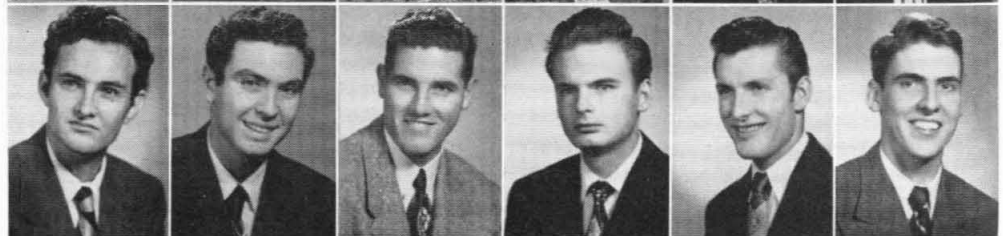
DALE KRAUSE
 PAUL LANGDON
 BOB LAWRENCE
 WALTER LEE
 MIKE LOURIE
 KEN LUNEN



DUANE MARSHALL
 PETE MASON
 JOHN McCOOL
 JOHN McCOURT
 SAM MIDDLEBROOK
 AL MISHAAN



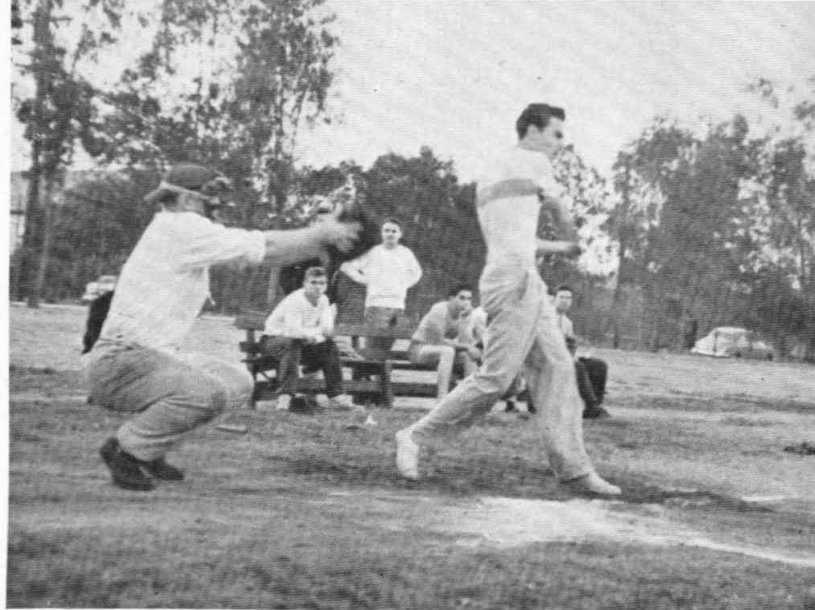
BERNON MITCHELL
 JERRY MITCHELL
 BOB MONROE
 BENJAMIN NOLAN
 STAN OGDEN
 MORGAN OGILVIE



The Blacker man finds himself overwhelmed with a Mountain Party at Camp Ivy, Square Dances, a Halloween Masquerade, Exchanges, Theater Parties, Record Dances, Barn Dances, a weekend Snow Party at Arrowhead, the notorious affair held at the Buwalda residence, Beach parties, a Valentine Dinner Dance, a Spring Formal, and a bewildering number of after-game Open Houses. And as final proof that this group of incompetents is completely berserk there was the fantastic spectacle of a 25-foot mushroom towering over Blacker courtyard, monstrous spiders and webs, gigantic ladybugs and ants, and oversized vegetation when Blacker presented "Microcosm" as their Interhouse Dance theme. Sam's roommates, both crazy too, are Bob Parnes, the noted Big T Photographic Editor and track and football letterman, and Phil Orville, Y Secretary and ASCIT Assembly Chairman. The well known politician and ASCIT Secretary, Stan Groner, rooms hereabouts with his roommate John Boppart, Vice-President of the Y and Co-Big T Editor. Just down the hall is Kyle Catterlin, House Vice-President, and the man in charge of Blacker's very active Associate program.

Last, but not least, we journey to Upper and Lower Doc's alleys. Passing through Lower Doc's we wave a greeting to John P. (for Patrick) McCourt, Caltech's own smiling Irishman, and continue upward to where a "People are no damn good" sign on the door tells us that Pete Mason, UCC, TBPi, ASCIT Treasurer, lives here. Neil Stefanides also makes this alley his home and serves the House as Secretary. And glorious to behold, at the end of the alley shines an RA's sign. Carel (Mother) Otte is his name and for the second straight year he thinks he is keeping one jump ahead of the troops.

We now leave the Blacker of the past and present and look forward to another year, bigger and better than the last—draft or no draft!



Ray swings roughshod over Fleming



PHIL ORVILLE
 BOB PARNES
 JOHN PEYTON
 BILL PILKINGTON
 CHARLES PRIMBS
 FRANK ROBBEN

IRWIN RUBENSTEIN
 BOB SALKELD
 ED SALSBUURY
 CARL SAUER
 DON SCHMID
 GORDON SEELE

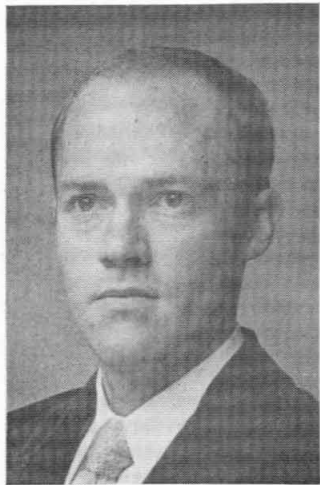
DICK SHARP
 GUS SOUX
 BOB SMITH
 DICK SMITH
 BART STRYKER
 SANFORD SWEET

DON TAUTZ
 BOB TEAM
 DAVE TWINING
 PERRY VARTANIAN
 WALT WHIRRY
 STAN WILKES

DABNEY



FRED WOOD



SHREVE, WOOD, HAMILTON, GOERKE

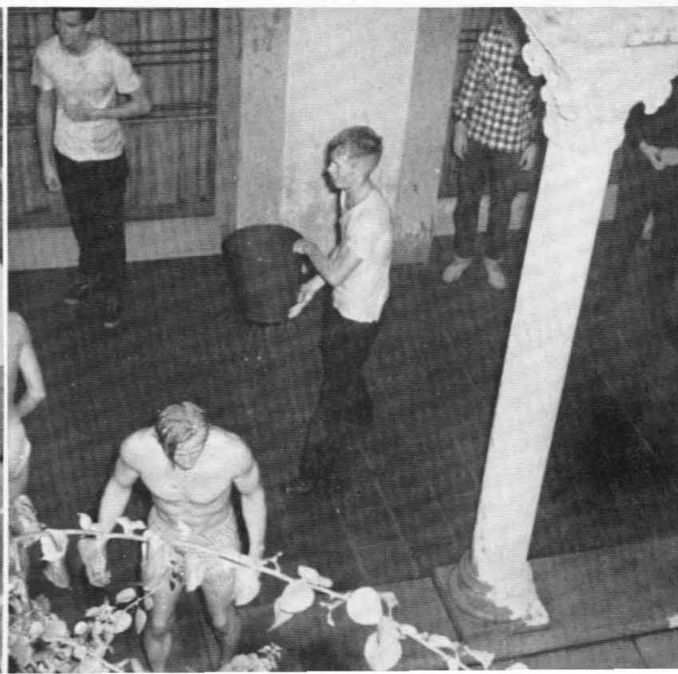
During the past year the men of Dabney stood in awe of the disheartening world situation. Yet they maintained a dignified nonchalance: the frosh were initiated in the spirit of normalcy, as well-dressed Men of Distinction. A fine addition to the House was RA Don Norris, whose diplomacy and good humor were matched only by the high quality of his female acquaintances. The troops were ably commanded by President Fred Wood, Vice-Engineer Jon Goerke, Secretary Ed Welch (succeeded by civilian Ron Shreve), and bill-burner T. Alexander Hamilton. Happily enough, the efficiency of the highest echelon of the Executive Committee Train again nullified the need for a raise in House dues. Tom Russell was

librarian; Don Stewart was Athletic Manager;—and the Energetics, Tom Stockebrand and Terry Thomas, served as co-historians. Spiritual upliftance came from Pope Bill Whitney and Cardinal Dick Brewer.

Notable service to the ASCIT was given by several Dabney men. Bob Davis acted as First Representative and Frank Ludwig as Rally Commissioner. Bob Kurland edited the California Tech; Bob Stanaway was Publicity Manager; Jim LaTourrette was soph president and he and Leon Vickman were assistant Yell leaders. In other important school positions were Bill Whitney as President of Tau Beta Pi; Tom Stockebrand as YMCA publicity director; Bruce Hedrick as PBAA chief; and Clark Kent as Superman.

Snider to Gutierrez

The great interhouse sport





DOUG ALVERSON
 BILL AVERRE
 MIKE BADER
 ARTHUR BAILEY
 GEORGE BAKER

BILL BARMORE
 JOHN BILLINGS
 DEAN BLANCHARD
 DICK BREWER
 CLARK BRUNDIN

ED BRYAN
 SIG CHAMER
 TOM CONNOLLY
 BILL CORBIN
 HENRY CRANE

MANUEL CRESPO
 ART CROWELL
 CHUCK DANIELS
 WALT DAVISON
 DICK DICKINSON

NORM ELLET
 TERRY FEISTEL
 BOB GILLINGHAM
 JON GOERKE
 REINALDO GUTIERREZ

RICHARD HAM
 TOM HAMILTON
 BRUCE HEDRICK
 NEAL HUNTLEY
 BILL IRWIN

CARL ISAKSON
 BILL KEMMEL
 KEN KING
 BOB KURLAND
 BOB LAFF

JIM LaFLEUR
 RICHARD LaFORCE
 JIM LaTOURRETTE
 ED LEE
 MOISES LEVY

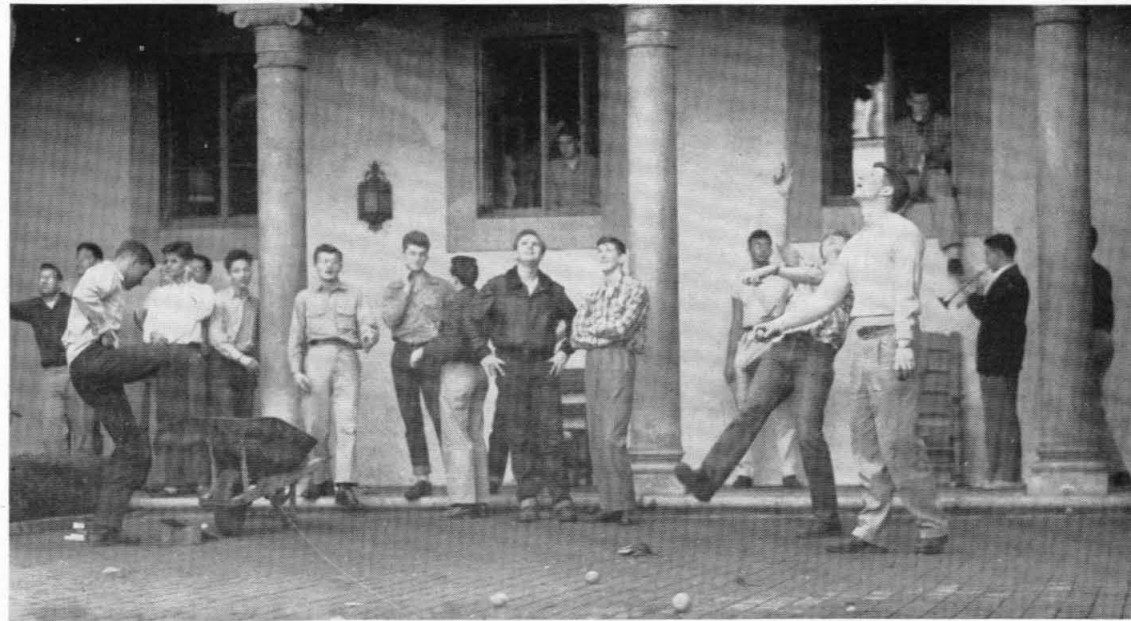
DABNEY

Wait!



You have beautiful eyes

Dabney, Fleming and oranges



Socially, Dabney more than maintained its reputation for staging a well-planned and well-executed social program, thus providing much sought after relief to the embattled troops. In the fall came the Interhouse: "A Day at the Circus." The nine foot highlight of the show was the servomechanistic green elephant which ate, flapped, winked, wiggled, etc. The next function was the Bohemian costume frolic held at the Arcadian home of Bob Walp (at the expense of several rolls of walp-paper). Then there were the two formals, five beach parties, and three barn dances. For sun and fresh air it was Sunset Beach with homelike hospitality and breakers, broken pool cues, ping pong, barbecue, et al. At Mountain Oaks it was

barn dances and entertainment and victory by the enhousecoated crew team. And then finally it was Win's Last Chance party at the Royce's nearby swimming pool and spa.

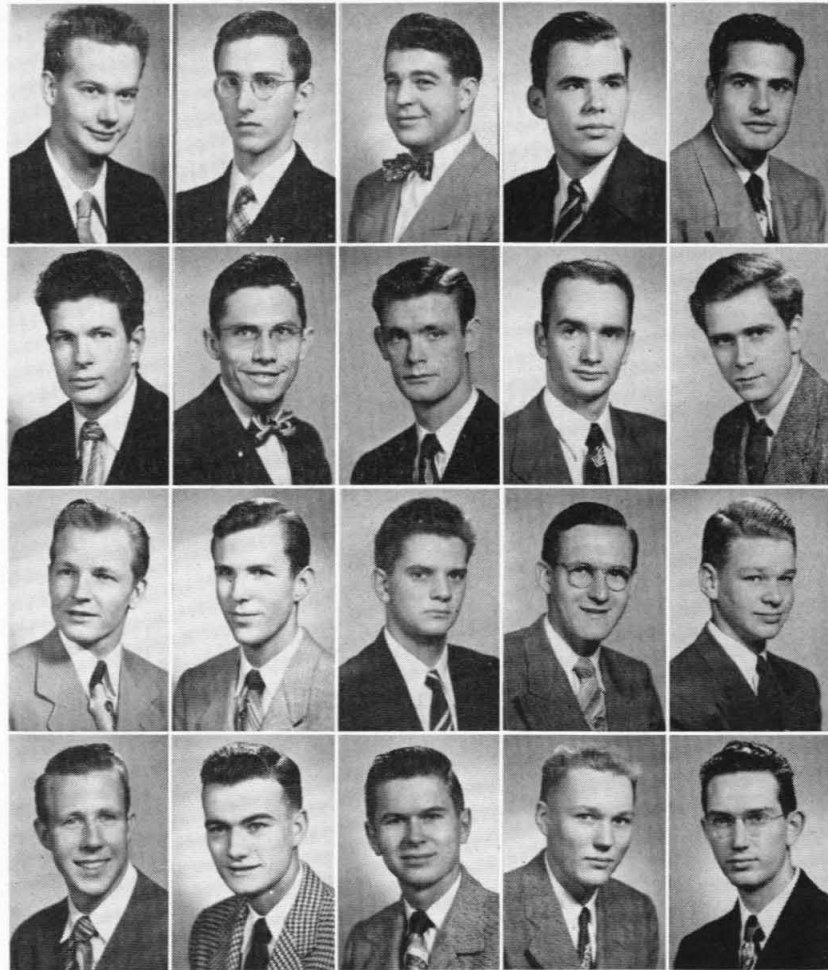
In athletics, the most success came in basketball. The House was loaded with talent and could muster two dependable teams. Sparking the undefeated squad were Leon Michaelson and Bob Packwood. In this and other sports the spontaneous cheering section kept the men fighting, as witness the fact that so far this year no House team has placed worse than third. The frosh class brought forth several fast men who shone in track events. The trio of Bruce Munn, Reinaldo Gutierrez, and Bill Corbin won four firsts

FRANK LUDWIG
 DAVE MacDONALD
 JOE MANGIN
 KEN MARSH
 HUGH MARTIN

JIM McQUISTON
 GEORGE MERKEL
 LEON MICHAELSON
 J. C. NOLL
 HANS PALMER

CHUCK PAULSON
 BOB PECHACEK
 GUNTHER PERDIGAO
 HANK POLLET
 WILLARD RICHARDS

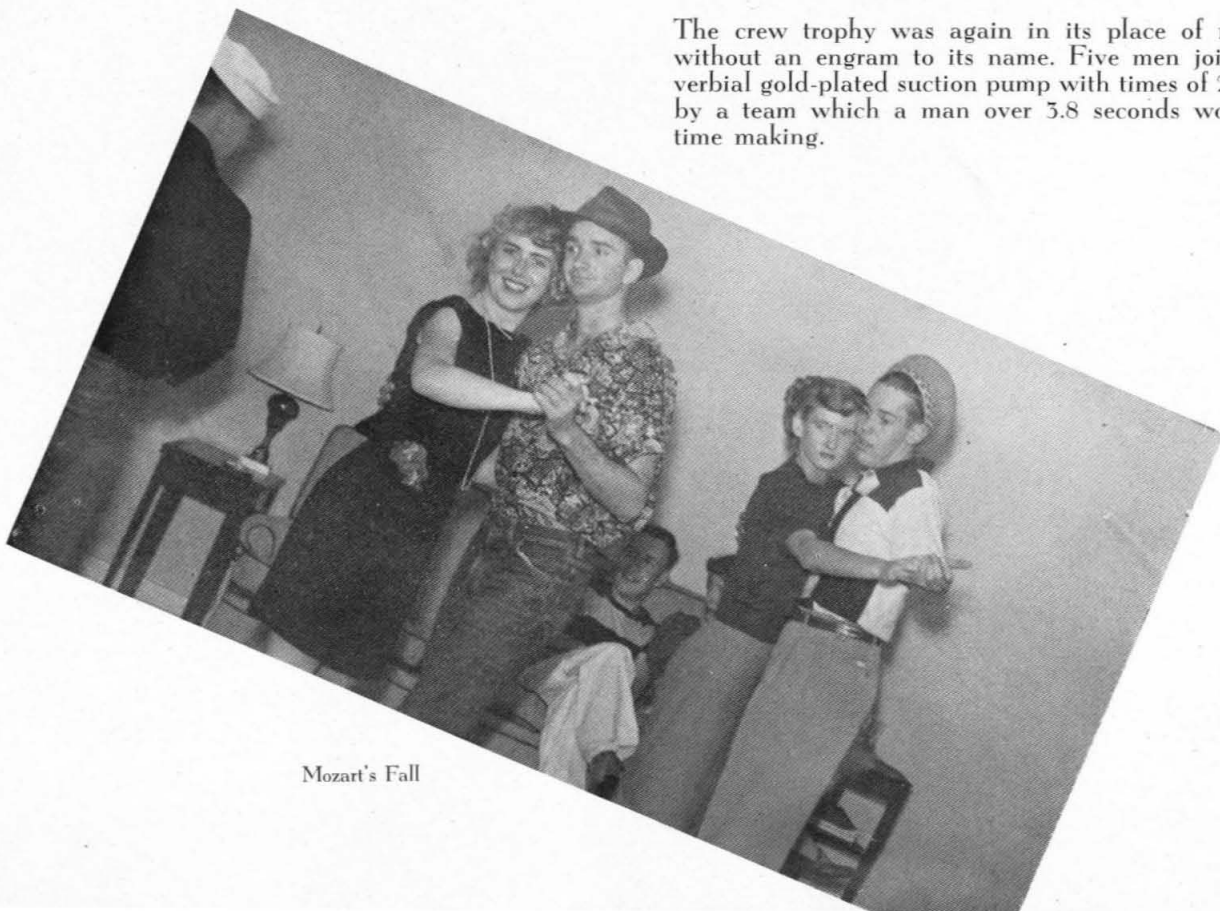
BILL RIHN
 WIN ROYCE
 TOM RUSSEL
 RON SHREVE
 BOB SMITH



DABNEY

and a second in the Interhouse track meet for a total of 25 points. Reinaldo Gutierrez gained a bit of fame by being highest scorer in U. S. soccer. The Skiing trophy is a new and welcome addition to Dabney's shelf collection. The CIT waterpolo team which fought its way to a conference championship got a big boost from all-conference forward Bill Barmore and the other seven Dabney Men on the varsity and frosh teams.

The crew trophy was again in its place of repose—secure and without an engram to its name. Five men jointly hold the proverbial gold-plated suction pump with times of 2.5 seconds, backed by a team which a man over 3.8 seconds would have a tough time making.



Mozart's Fall



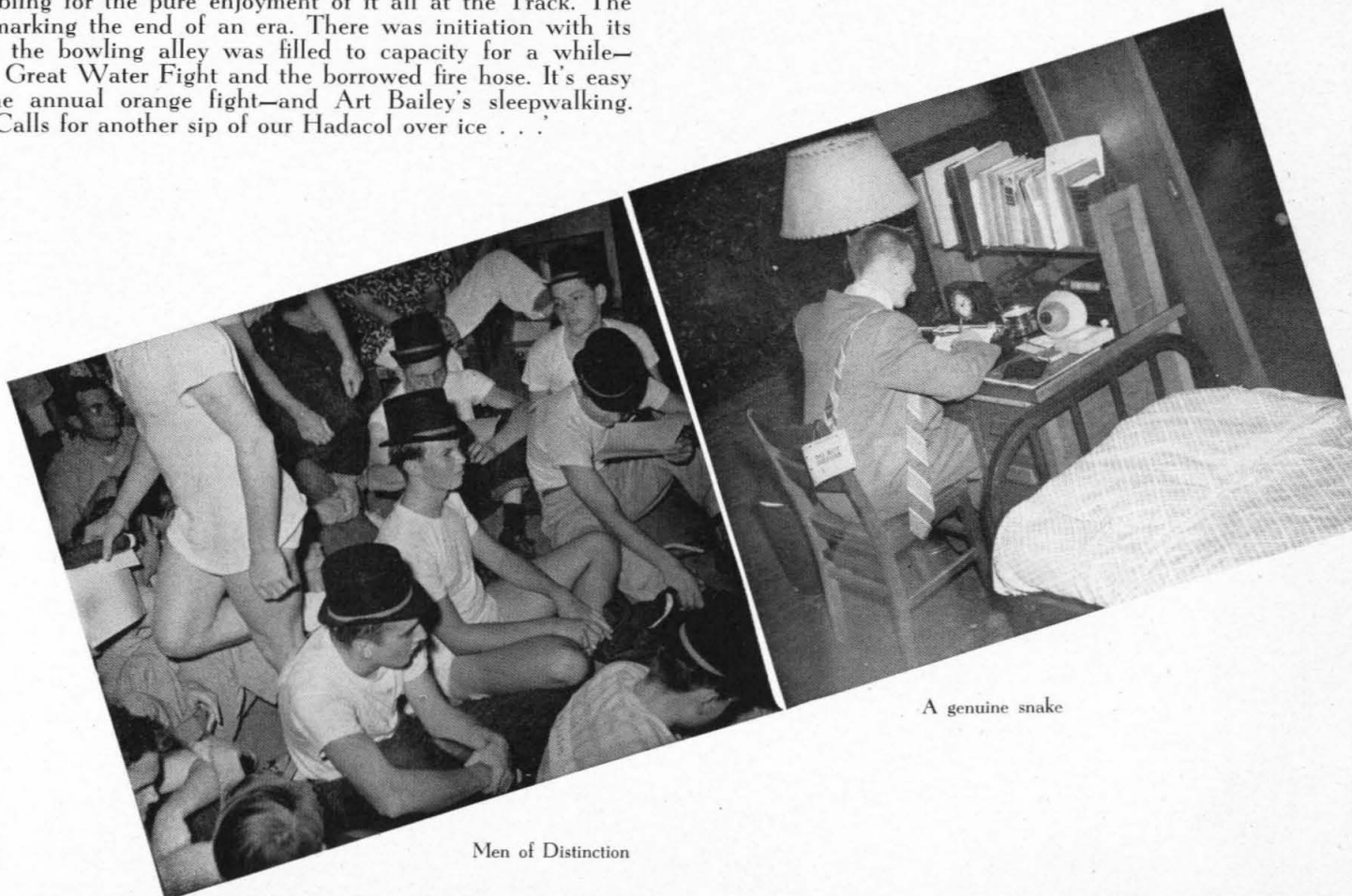
BERT SNIDER
 BOB STANAWAY
 DAVE STEPHENS
 DON STEWART
 TOM STOCKEBRAND

NICK SZABO
 TERRY THOMAS
 BJORN THORSTENSEN
 DAVE TILLES
 LEON VICKMAN

DON VOGEL
 DUTCH VREUGDE
 JESSE WEIL
 ED WELCH
 DICK WELSH

BILL WHITNEY
 KEITH WINSOR
 BOB WISTER
 FRED WOOD
 GORDEN ZENTNER

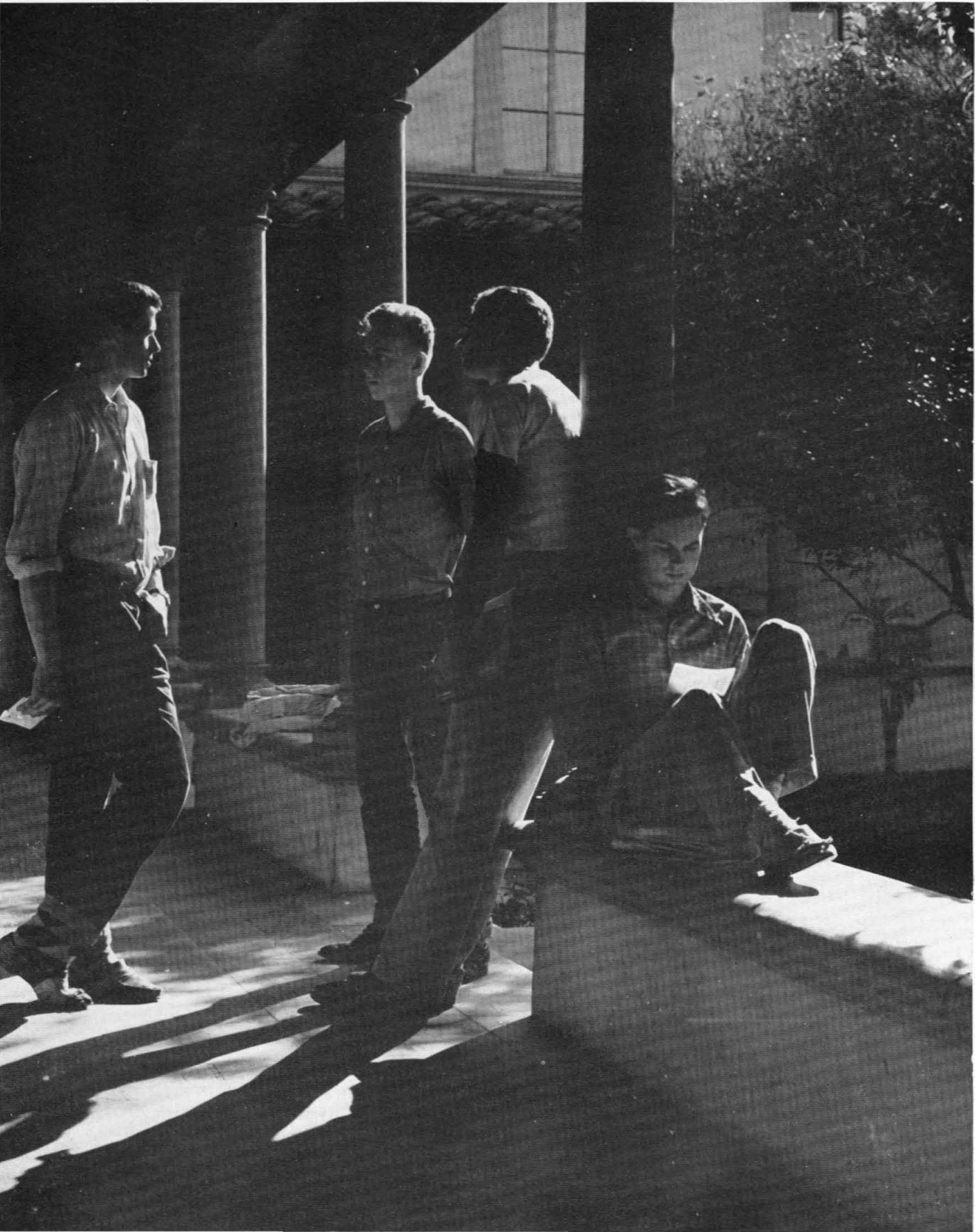
The Darbs had their share of memorable incidents. There were Hedrick and Wood warbling for the pure enjoyment of it all at the Track. The taxi was sold, marking the end of an era. There was initiation with its several surveys; the bowling alley was filled to capacity for a while—with plans: the Great Water Fight and the borrowed fire hose. It's easy to remember the annual orange fight—and Art Bailey's sleepwalking. Ah, nostalgia. 'Calls for another sip of our Hadacol over ice . . .'

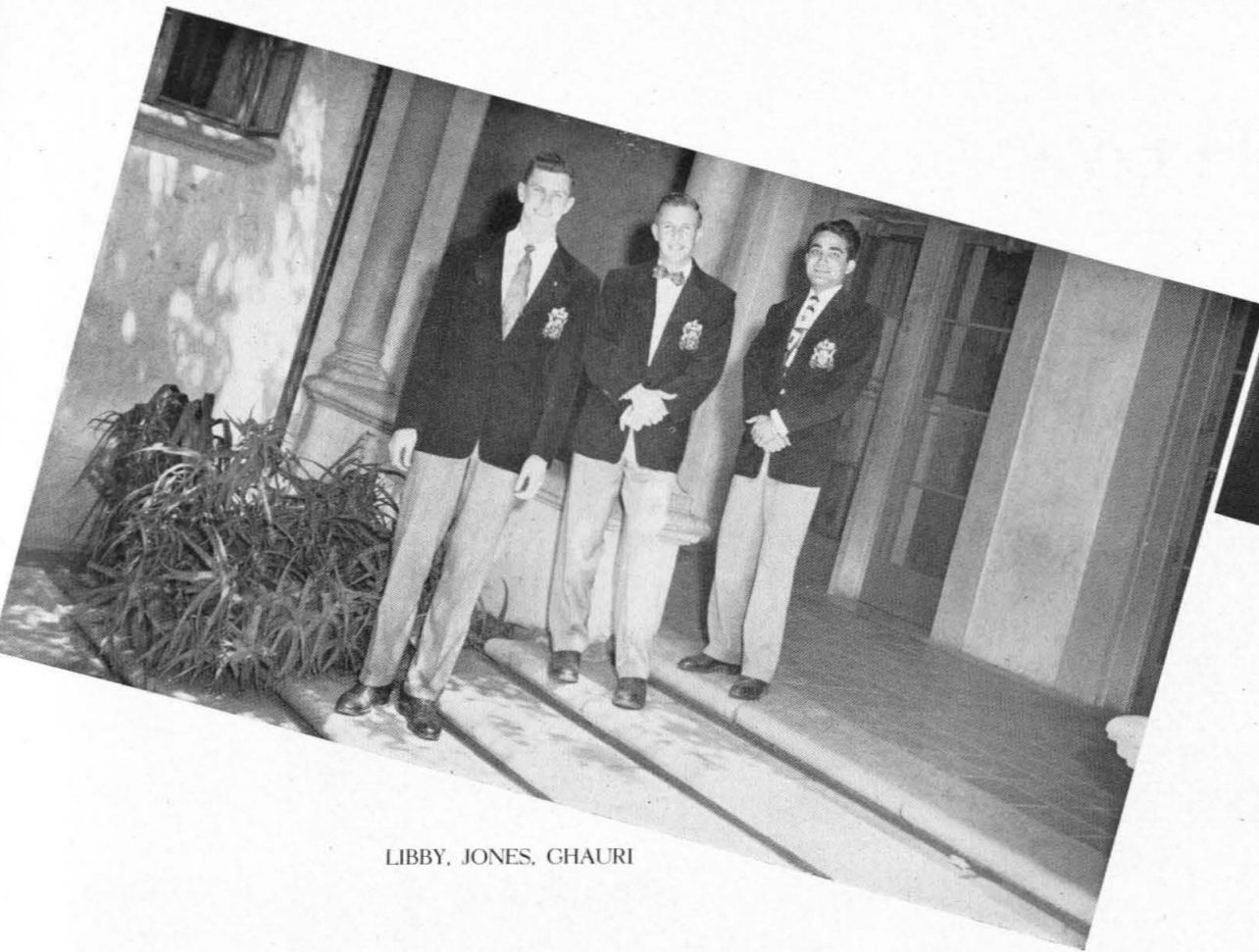


A genuine snake

Men of Distinction

FLEMING





LIBBY, JONES, GHOURI



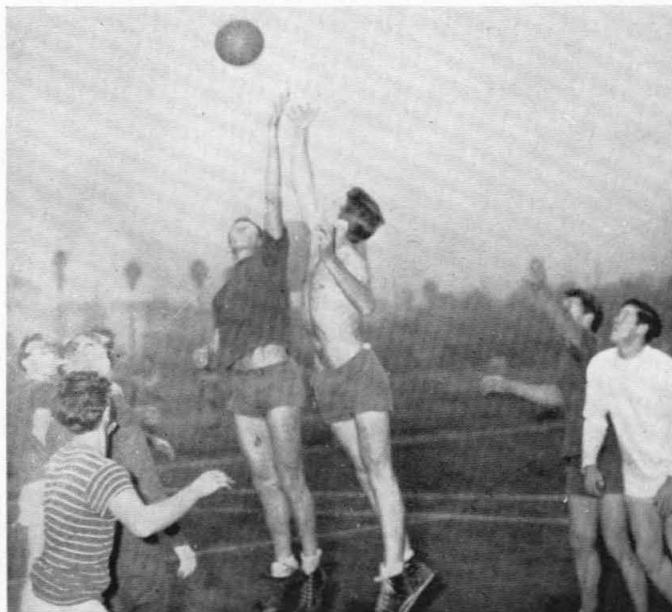
DALLAS PECK

Dusting off the Old Lady for the eighteenth consecutive time, the men of Fleming House settled down to another year of campus superiority in the Northwest Corner. Familiar yells of "fourth for bridge," "No coats and ties," or "Stranahan, let's go to Fisher's," were once more permeating Fleming court, which every noon was occupied by a devoted group of sun-worshippers, including married men Montgomery and Pardee, whose home-made lunchies aroused much envy among the troops subsisting on Tygon Tubing.

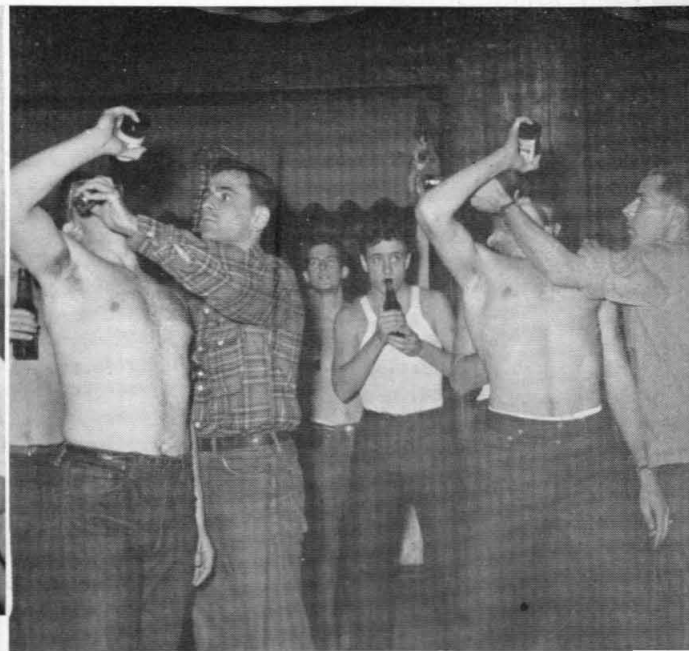
Mother "Blind Man" Norman Bulman spent his third year keeping his watchful eye over the troops. House

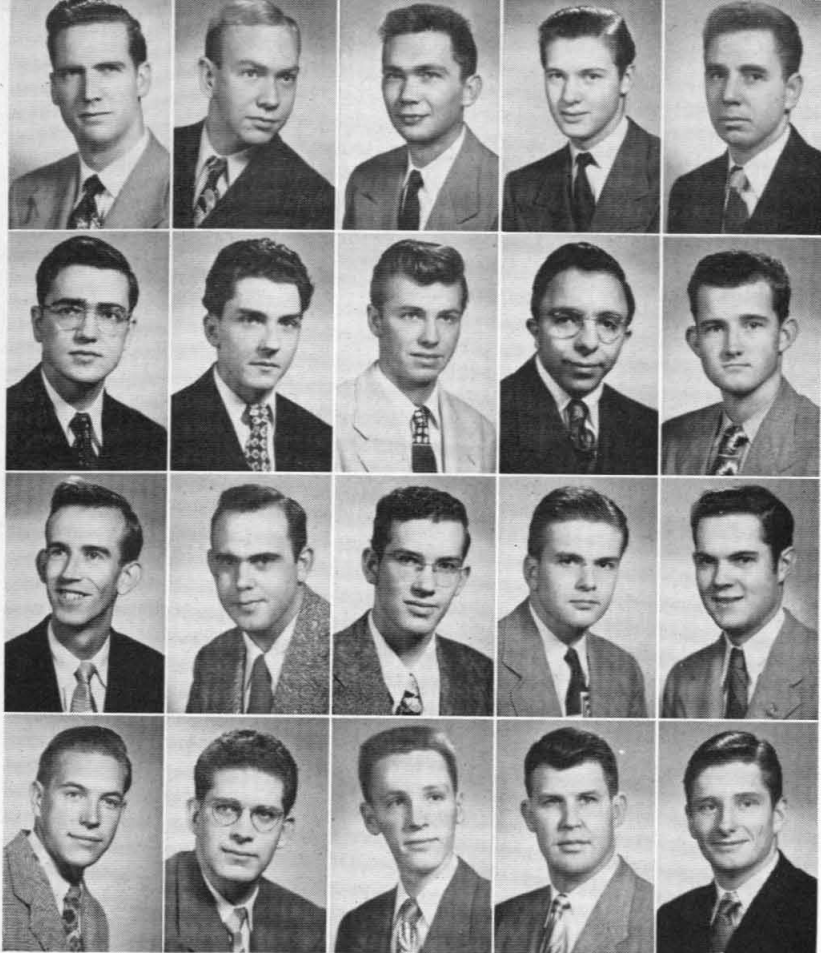
affairs were under the leadership of a capable group of officers, led by rock-hound president Dallas Peck. Vice-president Dick Libbey brought many prominent guests to Fleming's head table, while Waheed Ghauri, the "Pakistanian lover," kept the House records in good shape. Treasurer Dick Jones somehow managed to provide enough cash for the many House functions without the need of major assessments, while a semblance of order was kept in the alleys by peace-loving UCCs Ed Schlinger, Ed Matzner, Hank Keswick, Tony Malanoski, John Morrison, and Bob Madden. Cries of "Throw Katz out" often filled the dining room, but were always promptly dispelled by

Fleming vs. Throop



Stripped for action





GEORGE ABELL
 ROBERT ADLER
 DON ARNOLD
 JOHN BEHNKE
 BOB BIBLE

JOHN BJERKLIE
 BOB BROSE
 JOHN CAGLE
 STU CAMERON
 KEITH CAMPBELL

DICK CANTRELL
 MELL CASSIDY
 BILL CLAY
 HENRY CLUTZ
 JIM COLLINS

GEORGE COOKE
 MORT CRAMER
 PAUL CRAMER
 SONNY CRUMP
 DEAN DAILY

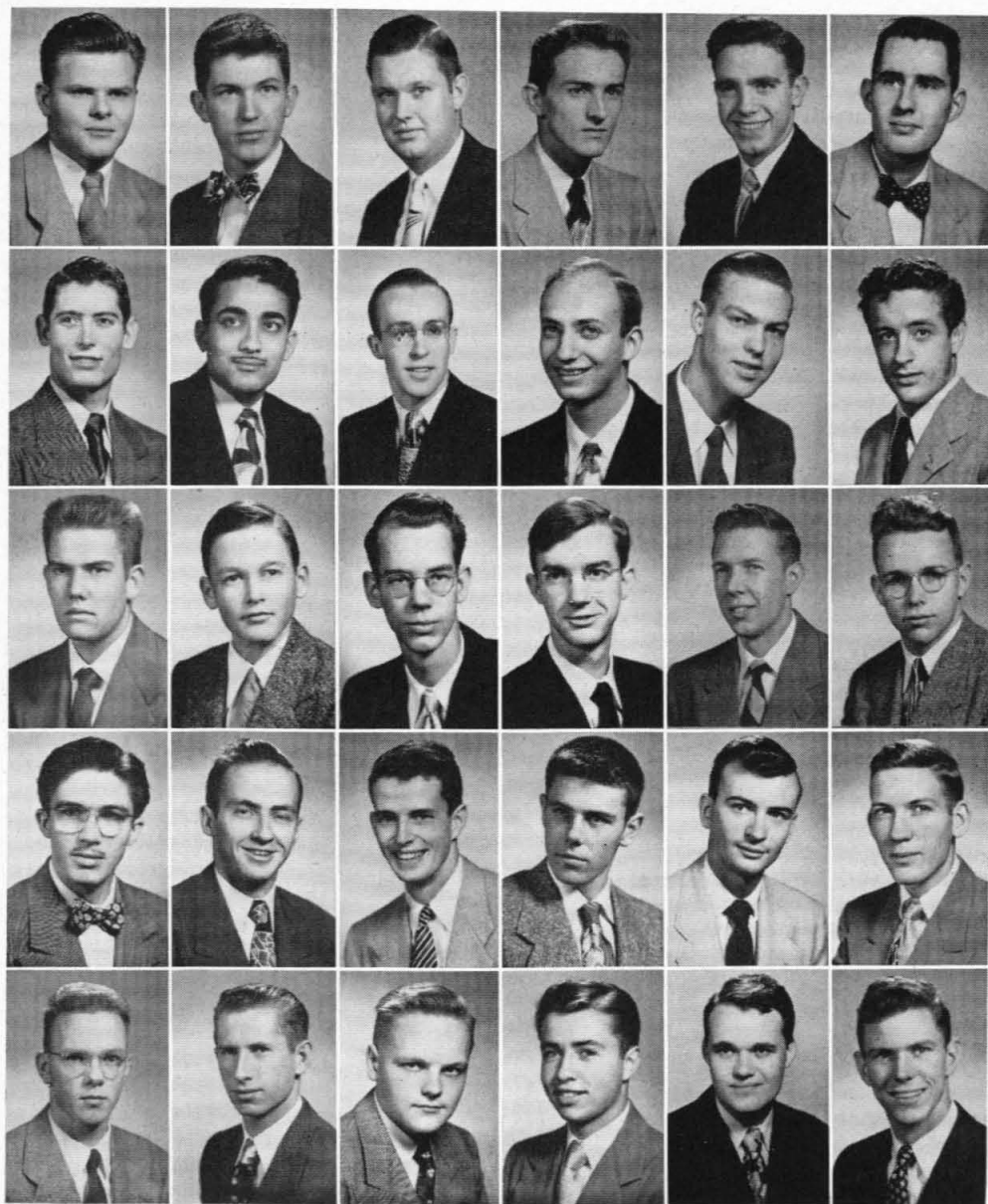
DWIGHT DENNIS
 GERALD DUDEK
 FRED EISEN
 TOM EMERY
 JOHN FORGY
 ALEX GANSA

JOHN GEE
 WAHEED GHOURI
 NORM GRAY
 ALAN HABER
 AL HAIRE
 DON HANDEN

DICK HODGES
 STEVE JACKMAN
 DAVE JOHNSTON
 JOHN JOHNSTON
 DICK JONES
 TAYLOR JOYNER

ROY KEIR
 HANK KESWICK
 JOHN KIDDER
 TOM KIRKPATRICK
 BUD KLARFELD
 JIM KLIEGEL

RON KORSAK
 HAROLD KRAMER
 KAI KRISTENSEN
 MO LERNER
 BUD LeTOURNEAU
 DICK LIBBEY



the heavy hand of constable Tony Malanoski, whose eye sent even the biggest floated frosh after the mop. John Gee as Librarian collected revenue from the House Library and saw to it that no one stole the pictures out of the latest Esquire.

Not to be outdone in ASCIT affairs, the Big Red had Tony Malanoski in the post of Beaver President, spreading the straight clue about Tech to potential future frosh. Dick Libbey led the Caltech YMCA on to new heights. Bill Sampson and John Johnston were the wheels of the band, and Budd Letourneau held editorships on both the California Tech and Big T. Six Fleming men swelled the ranks of Tau Beta Pi, and the Rally Commission, Orchestra, Debate Squad, and professional societies all claimed Fleming men as active participants.

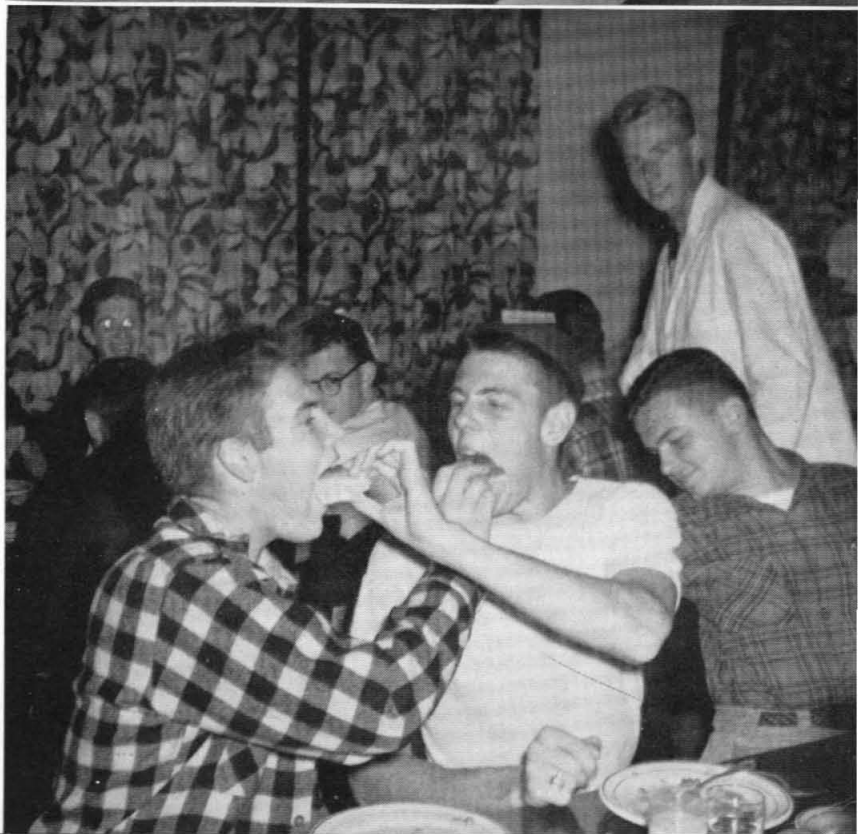
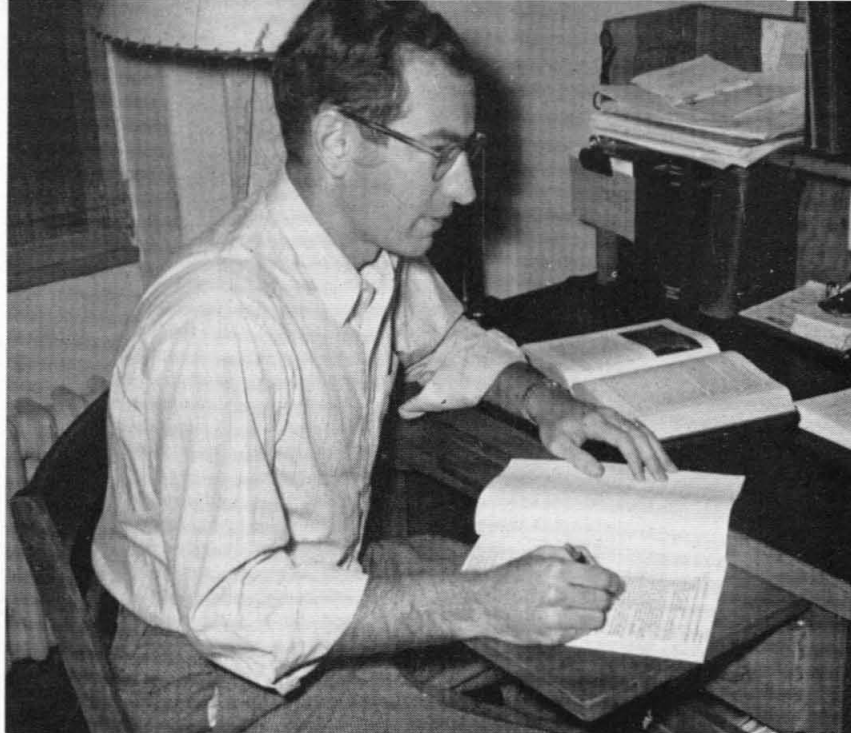
As usual Fleming put forth a colossal social program for 1950-51, made possible by the gallant and time-consuming efforts of co-social charimen Al Pitton and Mell Cassidy. Their infinite variety of gay and stupendous social affairs showed up the amorous instincts of a great throng of Flemingites, notably House lover John Forgy. A round of exchange dances provided amply for the filling of little black books, notable success being achieved especially with the charmers from South Pasadena. The fiances club of upper alley five also were steady attenders of the various events.

Behind the
8-ball

FLEMING

Yum!

The crowning event of the first term was, of course, the Interhouse Dance. Fleming's theme of Life on the Mississippi was effected by the conversion of the lounge into the grand ballroom of a showboat, with the side paddlewheels outside, the darkened bridge, refreshment salon in the dining room, and scattered nautical paraphernalia rounding out the decorations. Each term a very successful barn dance was held, at which the plaid shirts blossomed out and crew and flamer teams held up the honor of the house. High quality refreshments and Fleming's new ultramodern collection of 45 RPM records were featured at record dances following all athletic events. In February Timberlane Cottages at Lake Arrowhead was the scene of the annual weekend snow party, at which over thirty Fleming men and their dates enjoyed themselves skiing and just plain loafing about. A continued selection of beach parties, theater parties, formals, party dances, and other joie de vivre was promised for the spring term.





Sitting one, out



Swinging and swaying

Pope George Cooke and his revered College of Cardinals blossomed forth in all their glory at the second term stag. In addition to the liquid and eyecatching entertainment, a number of unusual interalley contests were held to determine possession of the famous missing brass spittoon. Norm Peck will be long remembered for his agility with the marshmallows.

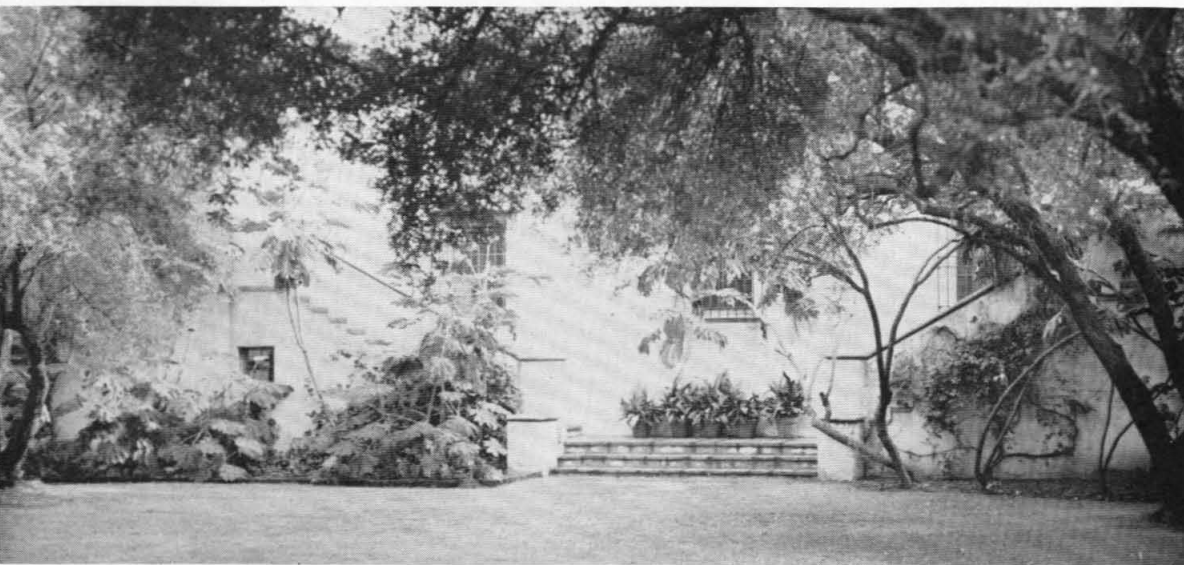
John Marion received the Golden Goose for a sad tale regarding the behavior of his auto on a cliff above Oxy. The usual water and orange fights with Dabney were in full sway, and the dangers from the Alley One baptismal rites beset any adventurous visitors to Bulman's belfry. The waiters Union had no trouble keeping the dinner consumption time under fifteen minutes.

A very active group of frosh was received into the fold in September but Friendship Chairman Brother Bruce

Wallace succeeded in taming them and teaching the proper respect to Mr. Fleming and Prince Eugene, and in raising their sub-amoebic intelligence to the accepted level. The House was saddened by the loss of Bruce to the Army in January.

Fleming teams fought throughout the year in a valiant effort to retain the Interhouse Trophy in spite of disabilities and increased varsity participation. The Varsity Rating Trophy continued its long residence on the Fleming mantle, where it seemed likely to remain and the Discobolus spent its share of time on the local shelf. Norm Peck and Norm Gray worked hard as athletic managers, seeing that the Red teams were always ready for combat.

Outstanding seniors in Tech athletics include Dallas Peck and Noel Reed, both first string guards, whose loss will be a blow to the Varsity. Peck was the recipient of the coveted Wheaton Trophy for outstanding football ability and leadership. Norm Gray, outstanding casaba-bouncer, John Gee, all-around sophomore athlete, Dick Libbey and Dick Von Herzen, in aquatic sports, and many others round out the list of Fleming Varsity athletes. All this rounds out another year of all-around accomplishments by the men of Fleming House.

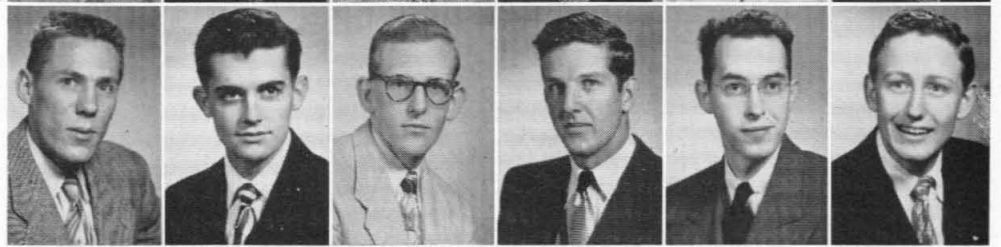


FLEMING

BOB LYNHAM
 BOB MADDEN
 PIERRE MAHIEUX
 TONY MALANOSKI
 JOHN MARION
 ED MATZNER



RANDY MOORE
 JOHN MORRISON
 AL NICHOLSON
 GEORGE NORWOOD
 DAN OLSSON
 STEVE PARDEE



PETER PAULING
 DALLAS PECK
 NORM PECK
 BOB PERPALL
 AL PINE
 JIM PINKERTON



AL PITTON
 PHIL POTTER
 ROBERT PROFET
 CARL RAMBOW
 DAVID RATHJE
 NOEL REED



MORRIS ROBKIN
 JOHN ROGERS
 BENJI ROSEN
 BILL SAMPSON
 ED SCHLINGER
 TOM SCRUGGS



TOM SLODOWSKI
 DEAN SMITH
 TED SMITH
 PALMER SMITH
 BOB SMITH
 LARRY STARR



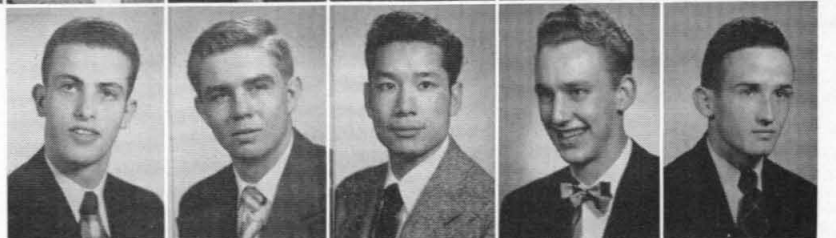
DAVID STEVENS
 GEORGE STRANAHAN
 JOE SUNDERLIN
 DON SUTTON
 NOBUYOSHI TAKAHASHI
 DON TURCOTTE



DICK VON HERZEN
 NEWMAN WADE
 BOB WAID
 BRUCE WALLACE
 JOHN WALTER
 MILO WEBBER



RON WILLENS
 COLE WILLIAMS
 MING WONG
 DAVE WOOD
 BOB WOOD





With its traditional enthusiasm, Ricketts House roared through Selective Service and smog to another successful year of studies, sports, and the social whirl. House president and virtuoso of the three-toned dinner gong, voluble Kent Stratton ably led us in the paths of righteousness, the introduction of culture to the dining hall his only failure. The freshmen found a mother in VP Jim Enslow, whose calm efficiency was matched only by his Soph-imposed showers. Plying the fluent Secretarial pen, Ernie Dzendolet continued in the illiterate tradition, while Treasurer Alex Dessler retired to the infirmary with writer's cramp after a bookbalancing session. Under Johnny Moss's quiet management Ricketts became a formidable contender in Interhouse sports, and Phil Halverson covered himself with glory in the newly created position of Social Chairman. And latest addition to the House nobility was Resident Associate Dave Mason, whose patience and hardness under duress has endeared him to our hearts.

Plunging with studied abandon into the social whirl, Ricketts mixed moonlight and modern magic into a

glittering success in the Interhouse Dance. The theme, "Music Out of the Moon," was brought out by a vast interior "moonscaping" as revelers danced beneath the light of the glowing Earth and a host of twinkling stars, to music from the moon crater bandstand. In the court, its needle point reaching skyward, stood the shimmering Rocketship RKTS amid a battery of floodlights, flares, radar equipment, and an impressive firing panel. The official firing took place at eleven with a spectacular pyrotechnic display.

Also memorable on the social calendar was the annual Apache Dance, when the Ricketts underworld gathers in clandestine rendezvous in a small, notorious Parisian bistro. The flicker of candle light, the careless beret, the unshaven face, the short tight skirt, the soft music, . . . all combined to form a memorable evening.

Spring, amid countless beach parties, brought romance and sophistication as Ricketts men went high-hat to smooth music and fine food at the dinner-dance formal.

"Fortunately the House still stands"

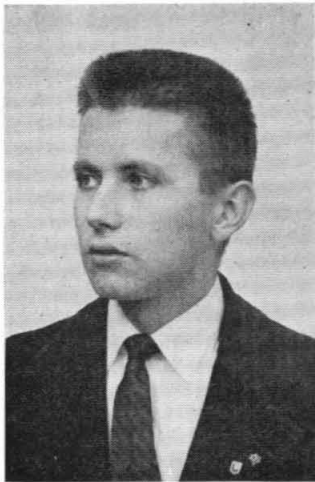
RICKETTS



Complementing the romantic formals and predatory exchanges was the ever-popular series of barn dances, where highbrow and hayseed mingle, and the lightning Ricketts Crew, sparked by Sewerpipe Polk, splashed competently through many a race.

The call-to-arms bit savagely into the carefree bachelor ranks of Ricketts House. Besides the untimely loss of Ted Romine, Riley Holly, and John Gliever to the Army, Navy, and Air Force respectively, and Al Marshall's temporary sojourn with Uncle Sam till he talked his sergeant out of it, tragedy struck as several hapless victims announced, amid a rain of cigars and symbolic suckers, their final surrender and engagements. They were individually consoled by sympathetic members of the House.

In the field of sports the monumental spirit and energy of Ricketts teams made them close contenders in every contest. Rich Smyth and Gene Shakespeare jogged home with first and second place for interhouse cross-country, the tennis team chalked up three tie-and-coatless suppers, and the spring volleyball and touch football teams lived up to their anticipated brilliant success.



KENT STRATTON

MOSS, DESSLER, DZENDOLET, HALVERSON
ENSLAW, STRATTON





RICKETTS

Oh-h Ball Paul!

In politics Ricketts promoted yell-leader Ulrich Merten to ASCIT President, newly-wed Olly Gardner to VP, and line-terror Dave Hanna to Athletic Manager. In the spring, House interest in campus affairs was demonstrated by the array of political candidates and literary aspirants running for office. The list was long, including President, Vice-President, Treasurer, Athletic Manager, Second Rep, California Tech Editor, and the business management of the California Tech and the Big T.

The initiation program, of particular interest to the Frosh, included the normal prelude of humiliation, damp encounters with neighboring houses, and the ordeal of

water-cooled meals, culminated by the official swearing in of the new members. The evening was concluded by an address by Nobel Laureate Dr. Robert A. Millikan, who shared his memories of Dr. Louis Ricketts and the genesis of this house, and later informally clued curious students on the origin of the Great White Cauldron squatting in the middle of the court.

Later in the term the Frosh had their first chance at the much-disputed Brakedrum, and many a night throughout the year its ringing challenge routed Sophomore and scum from their rooms to compete for the golden prize.

RODGER BAIER
FRED BAILEY
PHIL BATES
SID BELLINGER
CHUCK BENJAMIN
ROBERT BILES

PHIL BIRKLAND
DICK BROWN
DALE BURGER
RON CALDWELL
MIKE CALLAGHAN
FRANK CONNOR

RON CONNOR
BOB CRICHTON
LEE CUFF
ALEX DESSLER
CHUCK DUNN
DAVE DURHAM

JACK DYER
LARRY DYER
ERNIE DZENDOLET
WALT EAGER
BOB EASTON
STAN EILENBERG





DAVE ELLIOT
 BARNEY ENGHOLM
 JIM ENSLOW
 ED EYLAR
 OLLY GARDNER
 BILL GARDNER

JOHN GLIEVER
 BOB GRAFF
 PHIL HALVERSON
 KIM HAMBURGER
 DAVE HANNA
 JACK HARPER

PAUL HELFREY
 LEE HENDERSON
 CARL HIRSCH
 RILEY HOLLY
 JOHN HOLMES
 DOUG INGLIS

GEORGE JOHNSTON
 BRUCE KAISER
 BABE KARASAWA
 DAVE KNAPP
 DAVE KOONS
 CARL LARSON

A sedate aura of respect hovered over the House the night Ricketts entertained the entire DuBridge family at supper. For those of us whose last informal glimpse of Dr. Lee A. DuBridge was at Frosh Camp, the evening was a very pleasant opportunity to meet him and his family again. Several House wheels were noted showing Dick around the House, possibly in a vain attempt to lure him Tech-wise next fall.

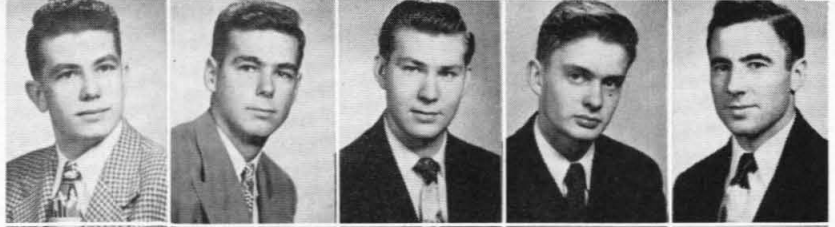
But all is not fun and frolic at Ricketts. The House has produced its share of outstanding students, notably Dave Elliot, whose films of his rocket building ventures entertained and edified the student body at one of the finest assemblies of the year. The House, hardly noted for bookwormishness, is nevertheless familiar with the frequent and determined cry "Snake Time!"

Cumulatively, the year has been a highly successful one for Ricketts House. Caught between the grade-point and the draft, Ricketts nevertheless looks forward to the new fall term with anticipation, regretting the loss of the seniors and preparing for the new crop of freshmen.

Simmons kibitzes



AL LEWIS
 HOWIE LEWIS
 CLIFF MAHLER
 BILL McCORMICK
 JACK McEWING



JAY McKINNEY
 MIKE MECHERIKOFF
 ULRICH MERTEN
 DICK MILLARD
 JOHN MOSS



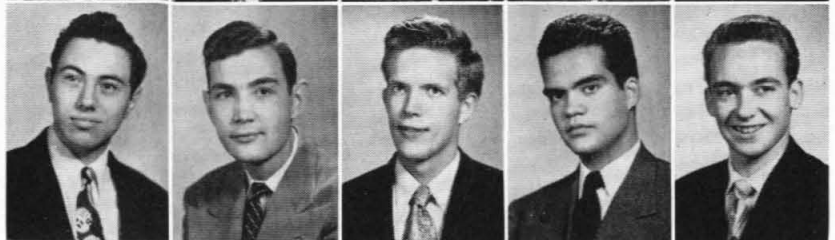
RITCHEY NEWMAN
 JOHN NOBLE
 ANGEL OTTATI
 BILL PARKER
 GEORGE PATRAW



GIL PEPPIN
 TED POLK
 VIC PORIZKY
 HOWARD PRESTON
 PETE PRICE



RONNIE RATNEY
 DICK RAY
 DICK RODBURY
 SERGIO RODRIGUEZ
 TED ROMINE



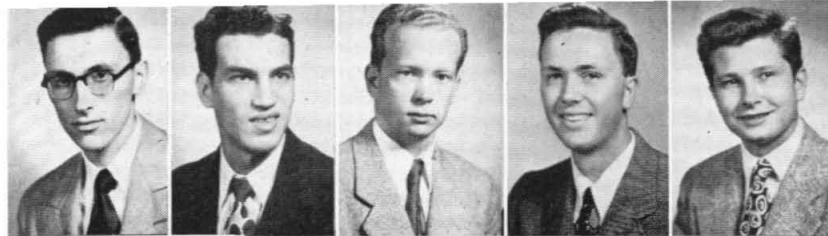
RICKETTS

Sweet music by Jack Harper

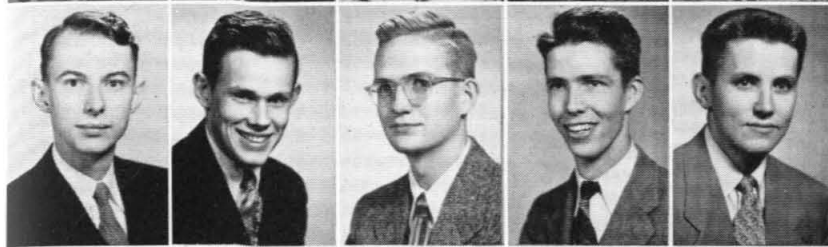


The Apache Dance—what else?





ARTHUR SAVRAN
AL SERENO
GENE SHAKESPEARE
JACK SIMMONS
RICH SMYTH



BOB SPENCER
RAY STANNARD
NEIL SUNDT
CHARLIE STEESE
KENT STRATTON



DICK TAYLOR
FRITZ THURSTONE
DON TIERNEY
DICK TRACY
TOM TYSON



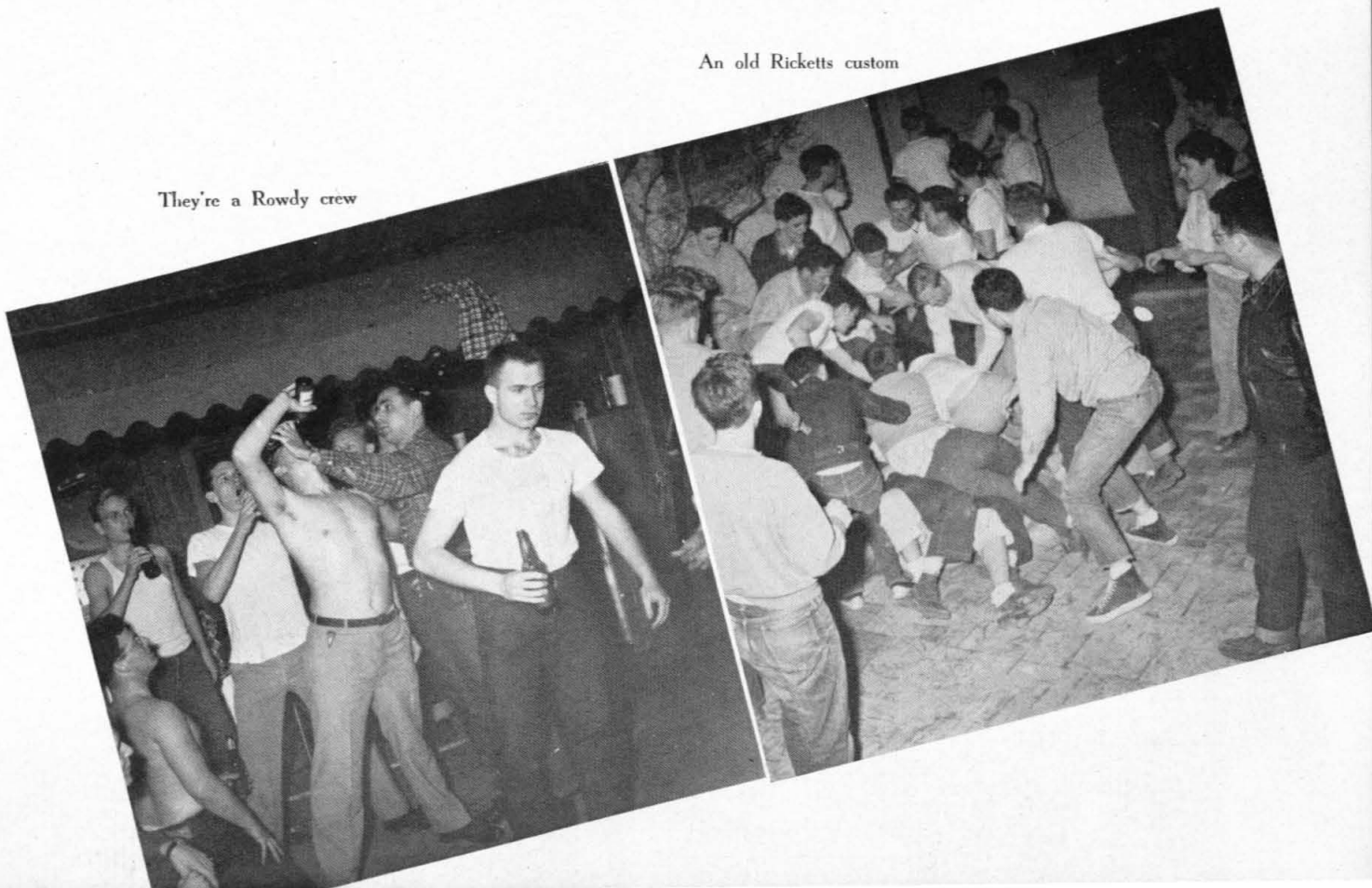
SAM VODOPIA
DUD WAGNER
BRUCE WATKINS
JACK WALKER
JOHN WALL

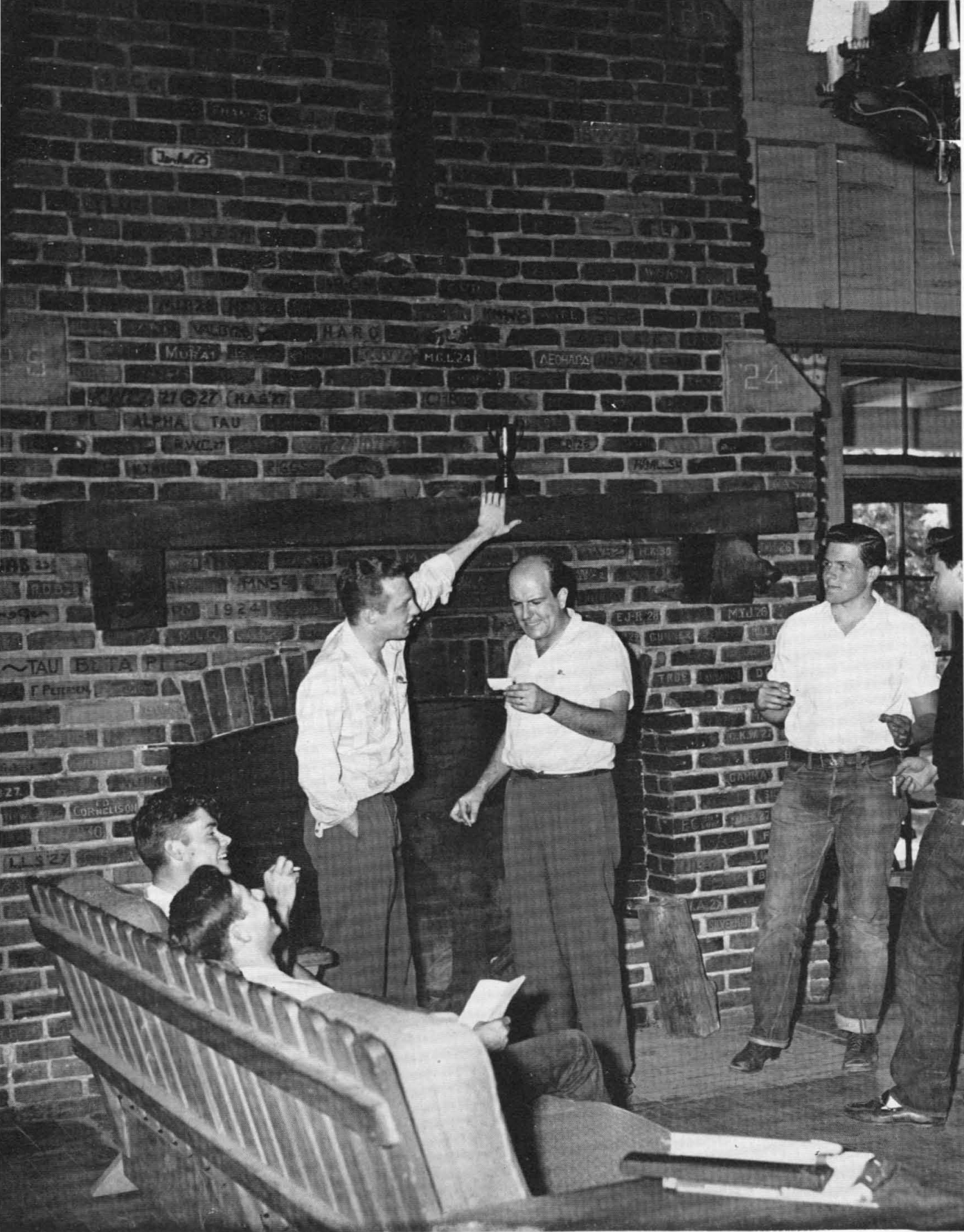


ERNEST WEBER
JOHN WEISNER
DICK WHITE
JIM WILSON
BOB SHERMAN

An old Ricketts custom

They're a Rowdy crew





THROOP

Throop goes rustic



Armstrong's engaged



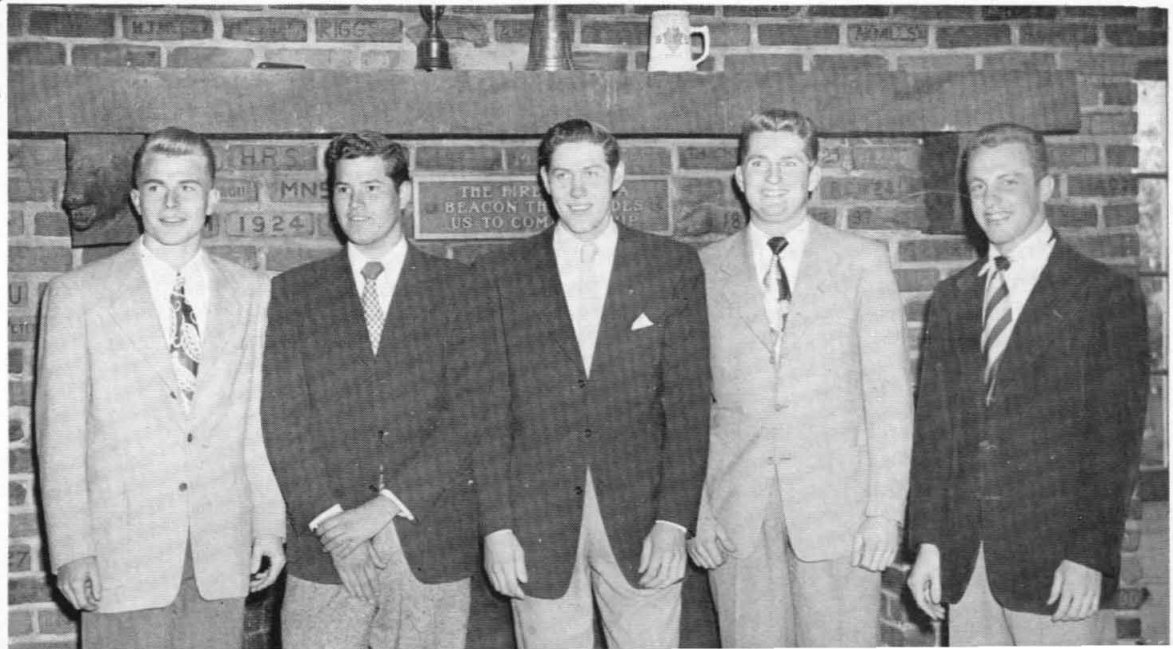
Amid a wave of political corruption and racketeering, Throop Club finally burst from its postwar lethargy into a daring, dazzling contender in all interhouse activities. In the spring of 1950, after the political bosses and gambling interests had elected a friendly administration, the sleepy club began to flex its muscles. That ever-popular (but corruptible) Duane Neverman was elected Dictator, and his chosen aides were Ray Destabelle, Vice-Dictator (and we do mean vice), Bill Edmondson, Treasurer (who proved to be the most persistent, tight-pursed, non-graft economist on the campus), and Ed Stofel, Secretary. The indication that things were going to be different next year came in the form of a thorough waxing of the student houses in IH football. With the Mosich-Patapoff pass combination and such linemen as "Moose" Fuller, Coach-player Neal Pings engineered a victory that touched even the heart of that eminent Historian and Advisor, Dr. Shutz.

DUANE NEVERMAN



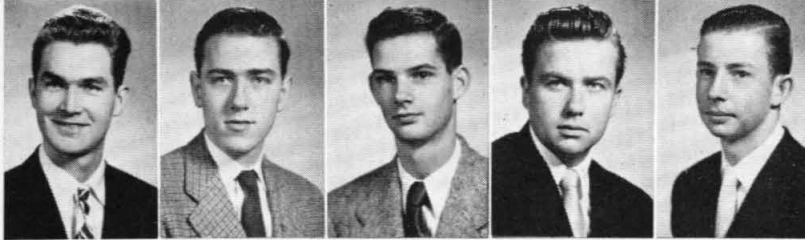
When the fall of 1950 rolled around, Lyle Hoag and Pat Wilburn duly persecuted the Frosh initiates while instructing them that they

STOFEL, EDMONDSON, NEVERMAN, DESTABELLE, KITCHING

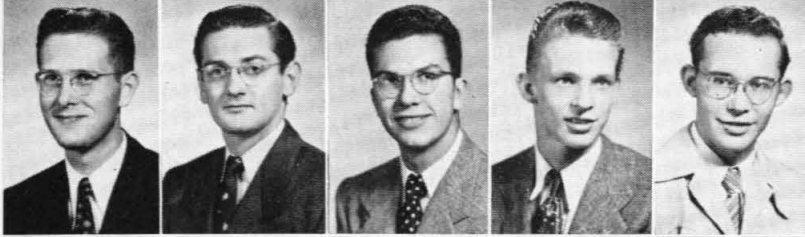




PAUL AAGAARD
 PAUL ARMSTRONG
 SAMUEL AUTREY
 MICHAEL BASIN
 JOHN BAUGHER



WAYNE BEEBE
 RICHARD BEMIS
 ROBERT BIXLER
 JAY BONDI
 GARY BOYD



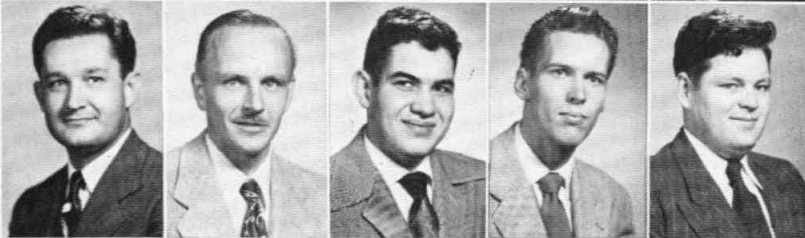
ROBERT BOYER
 HARTMOND BROOKS
 ALLAN BURTON
 GORDON CHAMBERS
 STEPHEN CLARK



BOB COBB
 PAUL CONCUS
 BOB CONNELLY
 NEAL COSAND
 BEN DAVIS



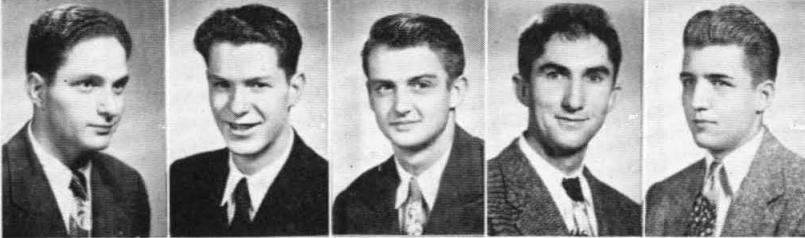
JOHN DAY
 RICHARD DONDANVILLE
 WALTER EDWARDS
 JOHN ELLIOT
 FRED GARRISON



VICTOR GATES
 JAMES GEHR
 MELVIN GOLDBERG
 VANCE GRANGER
 MALBONE GREENE



RAYMOND HEACOCK
 WILLIAM HENLEY
 ROBERT HOLBROOK
 RONALD HRUBY
 RICHARD HYDE



JAMES IBERS
 GEORGE JAFFRAY
 CURTIS JOHNSON
 ROLAND JOHNSON
 BRUCE KAISER



CLYDE KELLEY
 GIL KITCHING
 FRANK LANG
 CLARENCE LARSON
 JOHN LLOYD

THROOP



Secret of Throop's finances

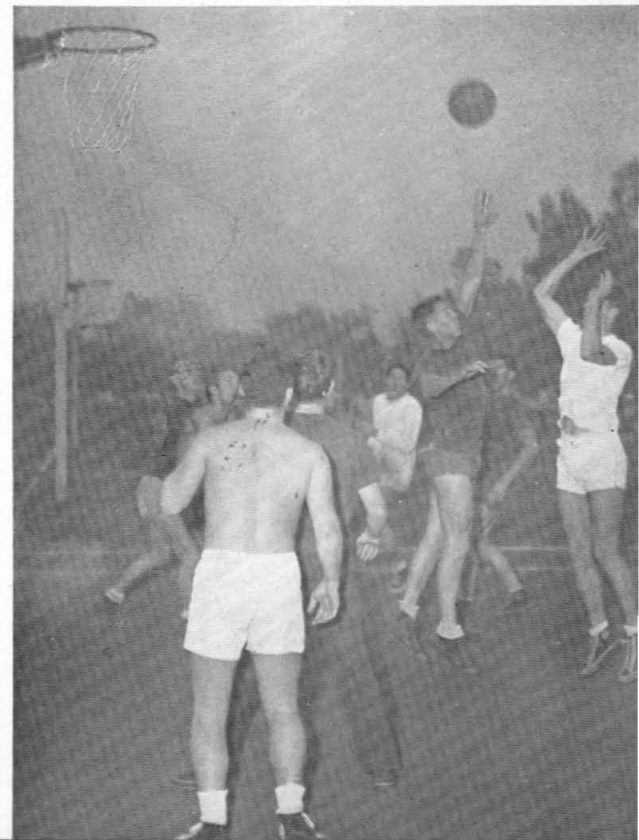
should never let their studies interfere with their college education. Receiving their education well the Frosh did such an uncouth thing as to rebel at a very inconvenient time during pledge week. Vice-Dictator Destabelle is still wet behind the ears, but the Frosh were thoroughly dried off and smoked out at a sidewalk picnic in front of Guggenheim. In due time, they became accustomed to their fate, and settled down to a peasant's life. Athletic manager Bob Cobb started the ball rolling on the IH trophy by producing a first in baseball and a second in basketball, to give Throop a slim lead at the end of the fall term. Dick Weeks led a bunch of old married men and Stan Rawn, in a sweeping 5-0 victory over Dabney on the handball courts to gain possession of the highly contended Discobolus. It adorned the Throop mantle through the Christmas holidays and was still collecting dust after upstart Fleming was so bold as to challenge for possession of it. They were immediately KO'd at basketball, with Vance Granger and Wayne Beebe leading the scoring.

The first term social activities, under the skillful guidance of playboy Gil Kitching, were a decided success. He mixed brawls, dolls, and molls with enough decent activities to maintain Throop's outwardly wholesome reputation. Barn dances, bowling parties, hayrides and, above all, the unforgettable IH dance, gave Frosh initiates plenty of opportunities to forget M.R.W. Throop's ingenious "Carnival" theme, complete with "lewd" sideshows, Marryin' Sam, various concessions, and Dick Hyde's orchestra, proved to be the main attraction of the evening, despite Ricketts' short-lived Rocket popularity. Come New Years Eve, all of Throop's gamblers, playboys, racketeers, that were still in town, pulled themselves together for a big blowout in Throop lounge, only to fall apart again at the first stroke of 1951 to kiss everyone else's woman while they still had a legitimate reason.



Lunchbag loafers

It went in



THROOP



The second term got underway in spite of hang-overs, headaches, and wild stories about a pair of white shorts. The gambling interests could now rightfully declare that they contributed to the Throop economy because of the conspicuous number of paid-up House members present in the club. There were some who doubted the validity of this type of economy, but with the aid of a few well chosen muscle men, these radicals were exterminated.

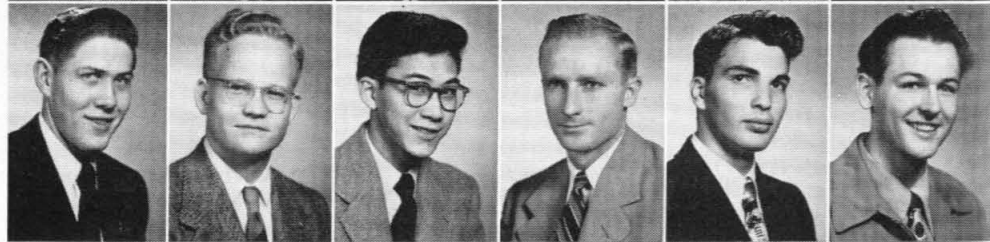
Continuing IH supremacy, Throop pulled through with a tie for first in softball, but only after that 9s. 100 yd. dash man, Reno Pierotti, made an astounding catch in right field. Ray Heacock and Gil Kitching, who ranked one-two in individual honors, helped Throop pulverize the Houses in IH track, to give the club a commanding 88 to 67½ trophy lead over second place Blacker. With strong prospects in swimming and football, Bob Cobb and other Throopers are hopefully eyeing a spot on the mantle where soon may rest the IH trophy. That spot is now occupied by the Discobolus, which was won back from Ricketts in handball, 5-2, after they chose to defend themselves against the old married men rather than face a young, sturdy, baseball crew.

Much of the success of this outstanding year at Throop Club can be attributed, not to the petty bosses or their henchmen, but to that real political shyster, John A. Schutz. He had the effrontery to leave his political hangout any time

ALAN LORD
CHARLES MILLER
ROLAND MILLER
HOWARD MOWER
GENE MUEHLBERGER
MANUEL MORDEN



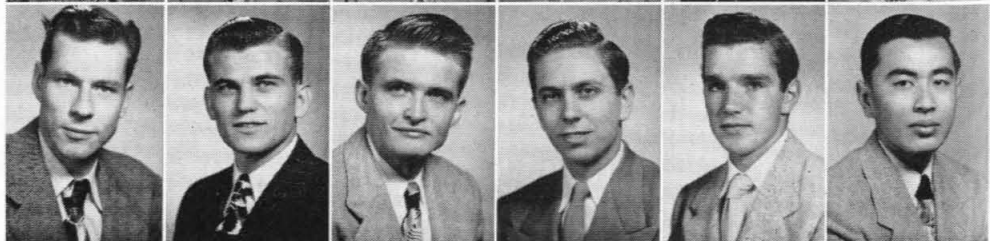
DUANE NEVERMAN
RAY NEWBURN
HAJ OGAWA
ROBERT OLIVER
ALLAN PACKLER
HARRY PATAPOFF



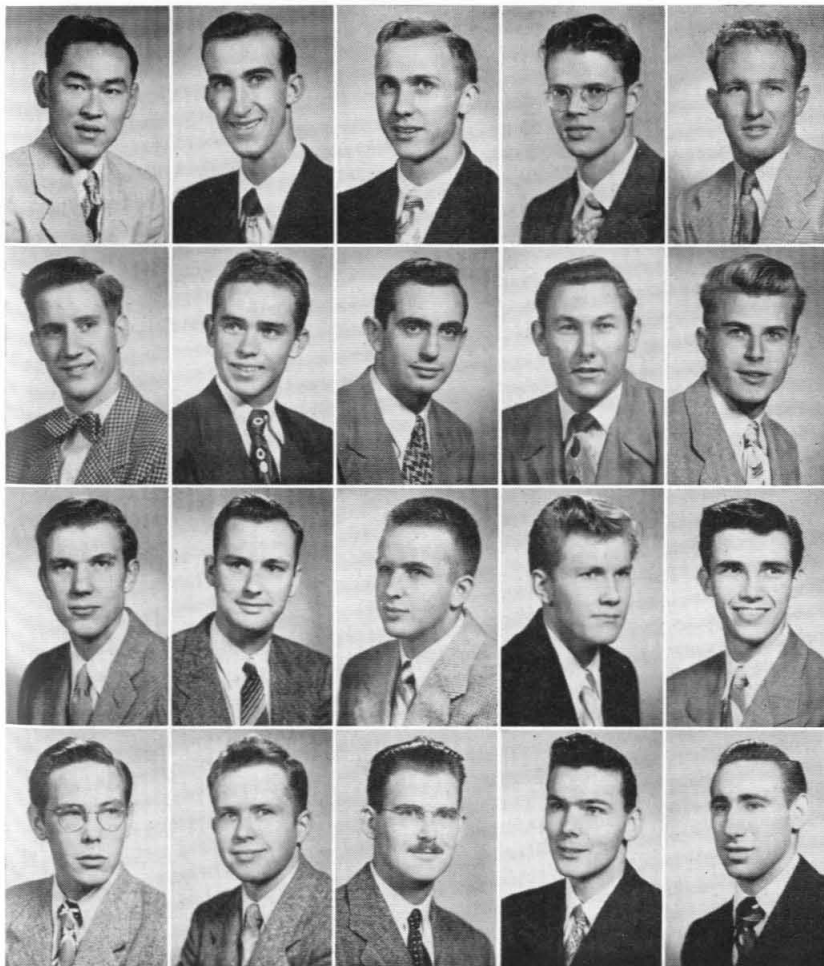
LLEWELLYN PEARCE
RALPH PERRAULT
WALT PFEIFFER
RENO PEIROTTI
WALTER PILANT
NEAL PINGS



JOHN PORTER
STANLEY RAWN
DENNY RIGGS
SHELDON RUBIN
CHARLES SARGENT
KAZUHIKO SATO



that his boys were involved in IH warfare. He even attracted public attention by his undignified and unethical appearances along the sidelines for the purpose of cheering the boys on. Because Schutz successfully evaded all of the various traps of that economist, Edmondson, it was decided that such a talented person should be made an honorary member for the coming year. (Besides, he has a way with wealthy women.) The members would have made it for life, but for Edmondson's vehement objections that such a monetary loss would undoubtedly affect the entire future of Throop Club.



TAKESHI SATO
 HOWARD SHUGART
 ROD SMYTHE
 LARRY SOKOL
 LOUIS STALLKAMP

BOB STANTON
 PAUL STARK
 EDWARD STERN
 WILLIAM STEWART
 EDWIN STOFEL

HENRY STURTEVANT
 ALFRED THIELE
 JAMES TOWNSEND
 AL VAN HISE
 GERARD VAN HOVEN

PETER VERDIER
 LESLIE WANLASS
 BILL WEBBER
 BILL WISE
 HAROLD WOODY

OFF CAMPUS



MITCHELL BAIN
 HARRY BEGG
 BARRIE BIELER
 RICHARD BRIDGES



ROD BUNKER
 DOUG CALLEY
 DAN CARNEY
 JACK CHOW



BERT CLARK
 ROBERT COVEY
 GLEN CRABBS
 ED DAVIS



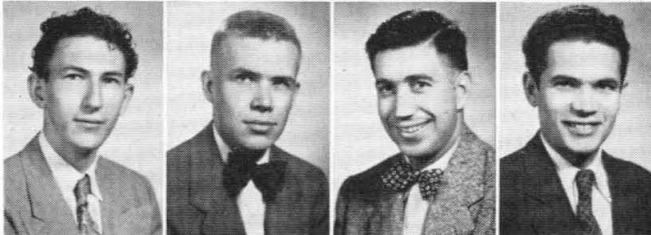
FORREST DAVIS
 ROBERT DAY
 JOSEPH DENNEY
 JAMES DENTON



WILLIAM EILAU
 DON EMERSON
 H. C. GAINES
 FRANKLIN GOODMAN



M. D. GRIFFIN
 JOHN HALLSTROM
 HERB HENRIKSON
 FRANK HOOPER



BRAD HOUSER
 BOYD ISRAELSON
 AL JACKSON
 HAROLD JACKSON



GENE JORDAN
 CLYDE KELLY
 WILLIAM KERR
 RICHARD KRIGER

THOMAS LAYTON
 DAN LeMAY
 CARROLL LINDHOLM
 JAMES LOVE
 HUGH MARTIN

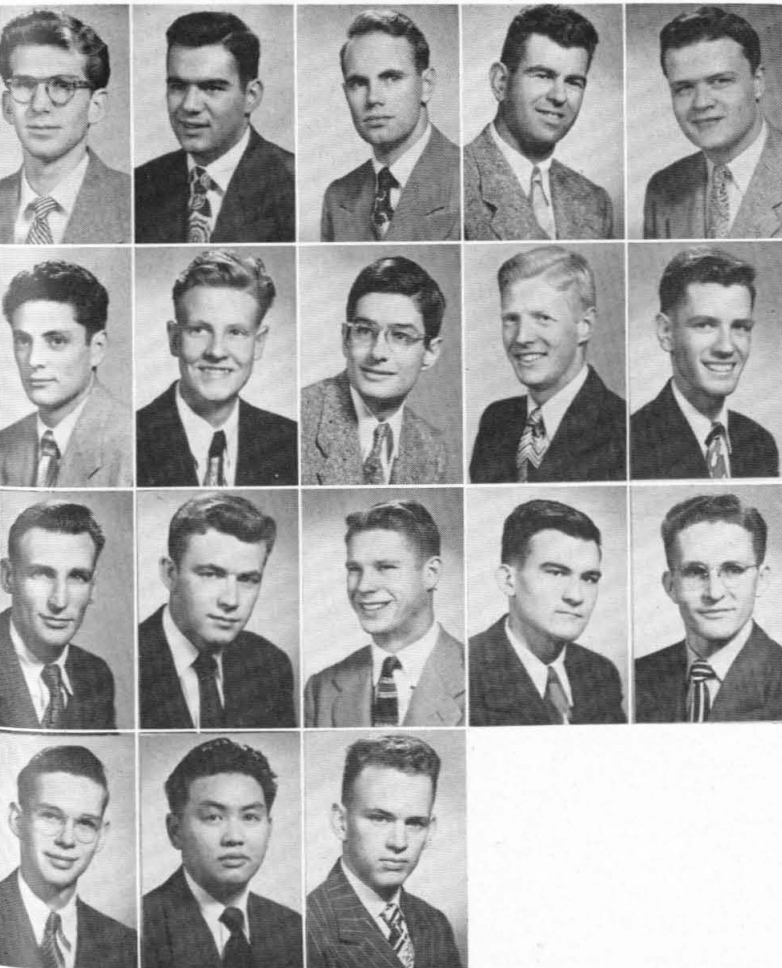
DOUGLAS McLEAN
 MATTHEW MESELSON
 BOB MEYER
 RICHARD NUNA
 ROBERT OLSEN

WILLIAM PARTRIDGE
 BOB PHILLIPS
 CHARLES PRICE
 ED PYATT
 HENRY RICHTER





OFF CAMPUS



ROBERT RYAN
 RON SALIBA
 RAYMOND SJODIN
 PAUL SKOGLUND
 DONALD SHOWDEN

JACK SWEETMAN
 WALTER THORSON
 GEORGE TRILLING
 NORMAN VAN ARSDALE
 HARRY VINCENT

ELMER WADE
 CHARLES WALKER
 BERK WELCH
 ART WENNSTROM
 GENE WILKINSON

JOHN WILSON
 EDGAR WONG
 BILL WRIGHT



C F BRAUN & CO
ALHAMBRA · CALIFORNIA

- SERVING THE PETROLEUM AND CHEMICAL INDUSTRIES FOR OVER 40 YEARS.
- A WORLDWIDE ENGINEERING AND CONSTRUCTION SERVICE.
- A WORLDWIDE CONSULTING AND RESEARCH SERVICE.

• OFFERING WIDE OPPORTUNITIES TO YOUNG ENGINEERS. CHEMICAL. CIVIL. ELECTRICAL. MECHANICAL. STRUCTURAL.

THE UNITED GEOPHYSICAL COMPANY

. . . is proud to list among its present personnel the following employees who have attended the California Institute of Technology:

Friend Baker — '36

E. E. Conant — '38

Walter Fillippone — '44

George Francis — '37

E. T. Howes — '24

Lincoln A. Martin — '43

Nash H. Miller — '37

Raymond A. Peterson — '31

Miller W. Quarles — '40

Vadim Sokoloff — '28

John R. Woolson — '38

and others



LATEST RELEASE

TALES OF HOFFMAN With Complete London Cast
LLPA-4

DIE FLEDERMAUS Complete (J. Strauss)
LLP-281/2

LA BOUTIQUE FANTASQUE (Rossini-Respighi)
LLP-274

LE SACRE DU PRINTEMPS (Stravinsky)
LLP-303

DIE MEISTERSINGER—ACT II (Wagner)
LLP-284/5

Bowling Music Co.
BUY WITH CONFIDENCE

712 E. COLORADO ST., PASADENA • SY 6-2697

L. G. BALFOUR COMPANY

CRESS WELL, Representative

Michigan 9408

527 South Figueroa

Los Angeles

Manufacturers of

Organization Insignia, Trophies, Medals,
Favors, Dance Programs, Gavels

Official Jewelers for:

Ricketts House, Fleming House, Blacker House,
Throop Club, Caltech Rings

Fisher's
Featuring
good food
at pleasing prices

LUNCHEON - DINNER
LATE EVENING SNACKS

Dine in an Atmosphere of Refinement

THREE FIVE EIGHT NINE EAST COLORADO
Two Blocks West of Rosemead

We are the Dabney
Waiters

At waiting we excel

If you don't like our
waiting

You can go to hell!



Old fashioned service is
our motto

Renowned patience we
always show

We simply ask the question

Who the hell are you to be
so gaddamn slow?



FLEMING WAITERS UNION

Awe inspiring speed too fast to relate,
Blow by blow encounters with those who
are late.

It is a FLEMING WAITER always on the
ball,
Out, Out, Out echoes thru the hall.

Your food reverts to clothing stains,
But our motto still remains —

"EAT IT FASTER"

Madison 7641

Los Angeles

PACIFIC ELECTRICAL AND MECHANICAL CO. ELECTRICAL CONSTRUCTORS

WIRING IN:

Cooperative Wind Tunnel
New Hydraulics Laboratory
Supersonic Wind Tunnel
Earhart Plant Research Laboratory
Mechanical Engineering Building
Synchrotron

PASADENA DISTRIBUTING CO.

Fruit Juices — Wholesale
and Retail

Suppliers of Fruit Juices
For Caltech

SY 2-3703

157 Vista Ave.

BRUSH

INDUSTRIAL

LUMBER CO.

Foreign and Domestic Woods
Wholesale Distributing Yard

— LOS ANGELES —

5354 East Slauson

ANgelus. 1-1155

ISADORE THOMPSON

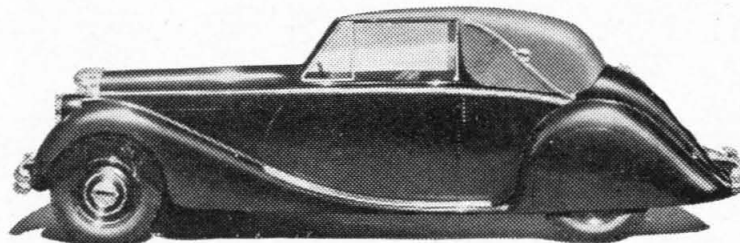
Consulting Engineer

Class of '31

583 Market St.

San Francisco

The Finest Car
Of Its Class
In The World



JAGUAR

● DROPHHEAD COUPE
With Three-Position Top
\$3850

● THE XK 120
World Record Holder
\$3945

● THE SEDAN
With Sliding Top
\$3750

AT THE BRITISH
MOTOR CAR
SPECIALISTS

PETER SATORI

297 W. Colorado Street
Pasadena
SY 6-0209,
RY 1-8362

THE FINEST CAR
OF ITS CLASS
IN THE WORLD

RAY GERHART
GENERAL CONSTRUCTION

SYcamore 2-2468
231 South Pasadena Ave.
Pasadena 2, California

KEESE ENGINEERING COMPANY

LIGHTING ENGINEERS FOR OVER 50 YEARS
WHOLESALE — MANUFACTURERS — DESIGNERS
SPECIAL LIGHTING EQUIPMENT FOR ALL PURPOSES
Agents — SHANNON GLOW LUMINOUS MATERIALS
HOLLYWOOD, CALIF.

HOLLYWOOD 46
7354-56-58 Santa Monica Blvd.
JOHN T. SHANNON, Gen. Mgr.
Registered Engineer No. 2392
GR. 1443

SAN FRANCISCO 7
411 Brannan Street
L. KAUFMANN, Res. Mgr.
GARfield 1-7877

Phone: SYcamore 4-1191

Founded 1923

CROWN HOTEL AND RESTAURANT SUPPLY CO.

"The Best in Fresh and Smoked Meats"

1368 NORTH LAKE AVENUE

PASADENA 6, California

Quality Candies

Home made candies that assure you of quality freshness. Candies for your everyday taste treat and gift selections.

Home made English Toffee, Creme wafer Mints, Hard candies and a delicious assortment of Hand-dipped Chocolates.

SUGAR MAGIC Candies

886 E. California St.; just west of Caltech
and at 1710 E. Colorado St.

Compliments of

MARTINO'S PIES

3010 Magnolia St.
BURBANK, CALIF.
Phone CH. 05167

CONGRATULATIONS TO CALTECH GRADUATES

HOLLYWOOD WHOLESALE ELECTRIC CO.

6820 ROMAINE ST.
HOLLYWOOD 38, CALIF.
PHONE HOLlywood 9-7221

"Suppliers to the Institute of Electrical Construction Materials and Equipment"

A. S. ALOE COMPANY
OF CALIFORNIA

MEDICAL and HOSPITAL
SUPPLIES

LABORATORY EQUIPMENT

1150 South Flower St. Los Angeles, Calif.
Richmond 7-9571



FOR A WEALTH OF
HEALTH AND FLAVOR

- Milk
- Buttermilk
- Cottage Cheese
- Butter
- Ice Cream
- Chocolate Drink

*Ask For Them! On The Campus —
At The Fountain — In The Home*

Meadow Gold Dairies

442 South Fair Oaks Ave. Pasadena, Calif.
SYcamore 3-5144 — Telephone — RYan 1-6966

CARBURETOR ENGINEERING CO.

Carburetors For All Cars
Marvel — Schebler — Zenith — Stromberg — Carter
A.C. and Auto Pulse Fuel Pumps
A.C. and Marvel Mystery Oil
Auto Lite and Delco Remy



3225 E. Colorado St. Pasadena 8, Calif.
SYcamore 3-7993

MOCK Printing

1104 MISSION STREET
SOUTH PASADENA, CALIF.
SYcamore 9-1711
PYramid 1-1875

6 Blocks from Caltech

HOTEL
CONSTANCE

An ideal residence for visiting parents, close to both Caltech and other places of interest in Pasadena. Modern and charming accommodations at moderate rates.

Coffee Shop - Outdoor Patio - Garage
Colorado at Mentor, Pasadena SY 6-6181

★ FOUNTAIN

★ SNACK BAR

★ CAFETERIA

OPEN 7:00 TO 4:00

CALTECH COFFEE SHOP
ON THE CAMPUS

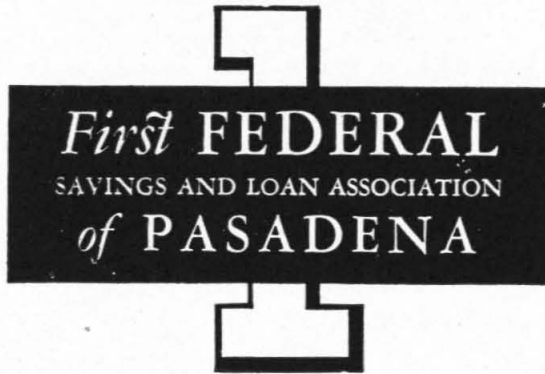
BEHRENDT - LEVY INSURANCE AGENCY

COMPLETE INSURANCE PROTECTION and SUPERVISION

MARINE BRANCH

Chas. I. Houghton, Manager
Cabrillo Theatre Bldg.
San Pedro, California
Terminal 24235

UNION BANK BUILDING — LOS ANGELES — VA. 1261



HYCON MANUFACTURING CO.

2961 East Colorado St. - Pasadena

• SY 2-4183 • RY 1-7611

Congratulations . . . Class of '51

Portable ELECTRIC TOOLS and Accessories

- A tool for any job
 - Precision Lathe Grinding Tools
 - Flexible Shaft and Equipment
 - Flexible Shaft and Equipment (built to your requirements)
 - Wood and Metal Working Equipment

"If it's an electric tool, we have it."

M. N. THACKABERRY

304-308 E. 3rd St., Los Angeles

MUtual 7235

TOOLS RENTED

ECONOMY BLUE PRINT & SUPPLY CO.

123 So. LaBrea Ave. — Phone: YOrk 2155

Los Angeles, California



- ★ Engineering and Architectural Supplies
- ★ Complete Reproduction Facilities
- ★ Manufacturers of Sensitized Papers & Cloths



526 SOUTH LAKE AVE, PASADENA

Fairbanks, Morse & Co.

"A Name Worth Remembering"

DIESEL ENGINES - MOTORS - GENERATORS
PUMPS - SCALES - FARM EQUIPMENT
DIESEL LOCOMOTIVES

4535 South Soto Street

JE 8151

Los Angeles

Meguiar's MIRROR GLAZE



AVAILABLE FOR USE BY MACHINE OR HAND
POLISHES SINCE 1901

THERE IS NO POLISH, WAX OR GLAZE MADE TODAY WHICH WILL EQUAL
MIRROR GLAZE IN DEPTH, CLEARNESS, LUSTER AND LASTING QUALITY

MANUFACTURED BY **MIRROR BRIGHT POLISH CO.** PASADENA CALIFORNIA, U.S.A.

Success And Best Wishes
To The Graduating Class
Of 1951

RADIO SPECIALTIES COMPANY
1956 South Figueroa Street
Los Angeles 7, California

SOUTHLAND PAPER CONVERTING CO.

4489 BANDINI BLVD.
LOS ANGELES 23, CALIF.

Makers of **JUMBO** Shipping Bags



CHAPEL of the GOOD SHEPHERD



TURNER & STEVENS
FUNERAL DIRECTORS • PASADENA



SPEEDWAY LAUNDRY

4761 Valley Blvd.

CApitol 11087

Campus Representatives

Ricketts House	- - - - -	Richard Smith
Dabney House	- - - - -	Mike Michaelsen
Fleming House	- - - - -	John Marion
		Al Pitton
Blacker House	- - - - -	Sherman Butler

RUSSELL H. ROEMISCH
REINFORCING STEEL CONTRACTOR

2411 West 78th Street
INGLEWOOD, CALIF.
PL 13076

make
LOCKHEED'S
 great future

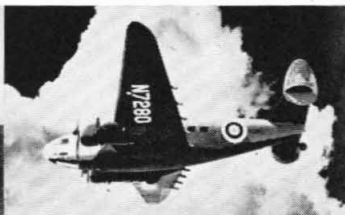
**YOUR
 FUTURE**

There's a better future—a better job—waiting for engineers at Lockheed Aircraft Corporation, in beautiful San Fernando Valley. At Lockheed you are well-paid from the start; work in modern, air-conditioned offices; receive training that prepares you for promotion—you are part of a team known for **leadership in aviation.***

These Lockheed planes show why Lockheed—and Lockheed engineers—earned that reputation for leadership:



THE VEGA—
 flown to fame by Charles Lindbergh, Amelia Earhart, Wiley Post.



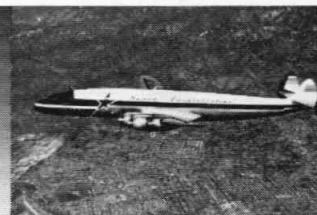
THE HUDSON BOMBER—
 first American plane to fight in World War II.



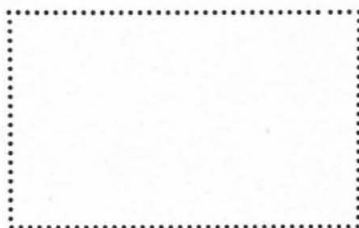
THE P-38 LIGHTNING—
 first 400 mile-per-hour fighter-interceptor.



THE F-94—
 all-weather jet interceptor.



THE SUPER CONSTELLATION—
 larger, faster, more powerful; the plane that bridges the gap between modern air transport and commercial jet transport.



The jet of the future—the plane you will help create—belongs in this frame. There will always

be empty frames like this, waiting to be filled by Lockheed engineers. That's why Lockheed needs good men—Cal-Tech men. So why not make Lockheed's great future **your** future. See your placement officer for illustrated brochures explaining work—and life—at Lockheed.

If your placement officer does not have any brochures write:

M. V. Mattson
 Employment Manager

LOCKHEED

AIRCRAFT CORPORATION
 Burbank, California

*Aeronautical training is not necessary; Lockheed will train you.

Emett & Chandler

GENERAL INSURANCE

Our Service Covers All Lines of Insurance

610 SOUTH BROADWAY, LOS ANGELES 14

TELEPHONE TRinity 4484



SALES
and
SERVICE



VARD Inc.

- ENGINEERING DEVELOPMENT
- DRAFTING MACHINES — SCALES
- VERNIER CALIPERS — HEIGHT GAGES
- GEAR SHAPING — HOBGING — GENERATING
- ENGINE DIVIDING — PRECISION GRINDING
- AIRCRAFT HYDRAULIC & ELECTRICAL ACCESSORIES

2981 EAST COLORADO STREET, PASADENA, CALIF.

Abrasive

Metal

Cutting

Tools

Engineering Service

ALMQUIST BROTHERS

2300 E. 49th Street

Los Angeles

KI 9111

Shop

Supplies

ALVIN'S

914 E. CALIFORNIA ST.

Your Nearest Camera Shop



Unexcelled
LAUNDERING and CLEANING
 ...By Any Standard of Comparison

The Royal
 Telephone
 SYcamore 6-4311

PASADENA'S LARGEST & FINEST LAUNDRY & CLEANING PLANT



Congratulations
 To
 Class of '51

Skill is art that reaches toward perfection. Proper clothes selection is an art which reflects our exceptional skill.

Pitzer & Warwick
 Clothes for Lad and Dad
 321 E. Colorado Street



AWNINGS
 CANVAS BY THE YARD
 FREE ESTIMATES

- Complete line of . . .
- Venetian Blinds
 - Window Screens
 - Linoleum
 - Garden Furniture
 - Window Shades

G. W. COX & SON

Just a Shade Better
 63 No. Fair Oaks, Pasadena 1, Calif. SY 3-2186

**STATIONERS
 CORPORATION**

*Artists Supplies—Engineering Supplies
 Stationery—Gifts & Greeting Cards
 Leather Goods—Pen and Pencil Sets
 Office Furniture—Office Supplies
 Printers and Engravers—Lithographers*

LOS ANGELES, 525 South Spring Street, MADison 9-1311
 SAN DIEGO, 1055 Sixth Avenue, FRanklin 1344

RYan 1-7771 SYcamore 5-1085

**SANDBERG-SERRELL
 CORPORATION**

Consulting Engineers

Specializing in the Solution of Unusual
 Mechanical and Structural Design Problems

19 North Catalina Avenue
 Pasadena 1, California

HAROLD ROACH CONSTRUCTION CO.

CONTRACTORS & ENGINEERS

Complete Building Service

607 N. Vermont Ave.
 Los Angeles 4, Calif.
 NORmandie 3-2101

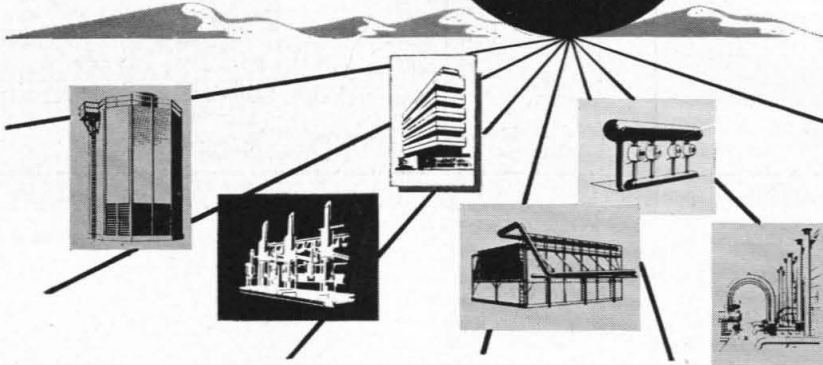
Harold Roach '32

*The Symbol of
Quality—
Integrity
and Dependability*

BE SURE



WITH FLUOR



IN DESIGN, ENGINEERING & CONSTRUCTION: Fluor offers specialized engineering groups to handle your process problems—from analysis to the engineering and construction of a plant.

IN SPECIAL EQUIPMENT: Fluor offers Counterflo Cooling Towers • Mufflers • Aerator Cooling Towers • Fin-Fan Air-Cooled Heat Exchangers • Pulsation Dampeners.

FLUOR

THE FLUOR CORPORATION, LTD.

2500 SOUTH ATLANTIC BOULEVARD
LOS ANGELES 22, CALIFORNIA

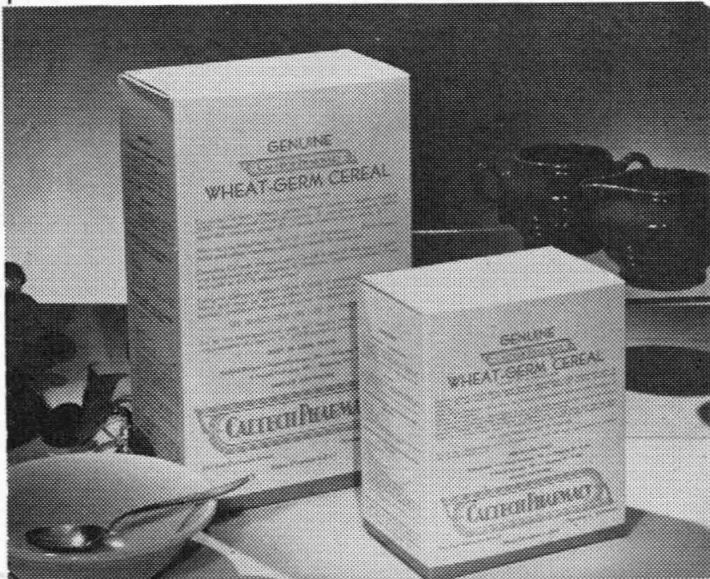
**ENGINEERS • CONSTRUCTORS
MANUFACTURERS**

OFFICES IN PRINCIPAL CITIES
IN THE UNITED STATES

Represented in England by:
HEAD WRIGHTSON PROCESSES LTD.,
LONDON, ENGLAND

THOUSANDS

All Over the United States Know This Package and Have Used It For Years — The Genuine Caltech Wheat Germ Cereal



OVER 1/4 MILLION POUNDS SOLD

One of the best known NATURAL food cereals—Contains three times as much Vitamin B1 Complex as 100% whole wheat bread. Rich in Riboflavin (B2 or G) (Pyridoxin B6) Pantothenic Acid, and other members of the Vitamin B Complex Group. Each tablespoonful contains more than 65 international units of B1. Genuine Caltech Wheat Germ Cereal may be eaten either raw or cooked as a breakfast cereal, or mush, pie crusts, or muffins. See directions on package. Delivered anywhere in the world 2 lbs. 35c or 5 lbs. 70c plus postage. Shipping weight, small 3 lbs.; large 6 lbs. Ask your postmaster for new rates.

CALTECH PHARMACY

882 E. CALIFORNIA ST.
PASADENA 5, CALIFORNIA

SY. 2-2101

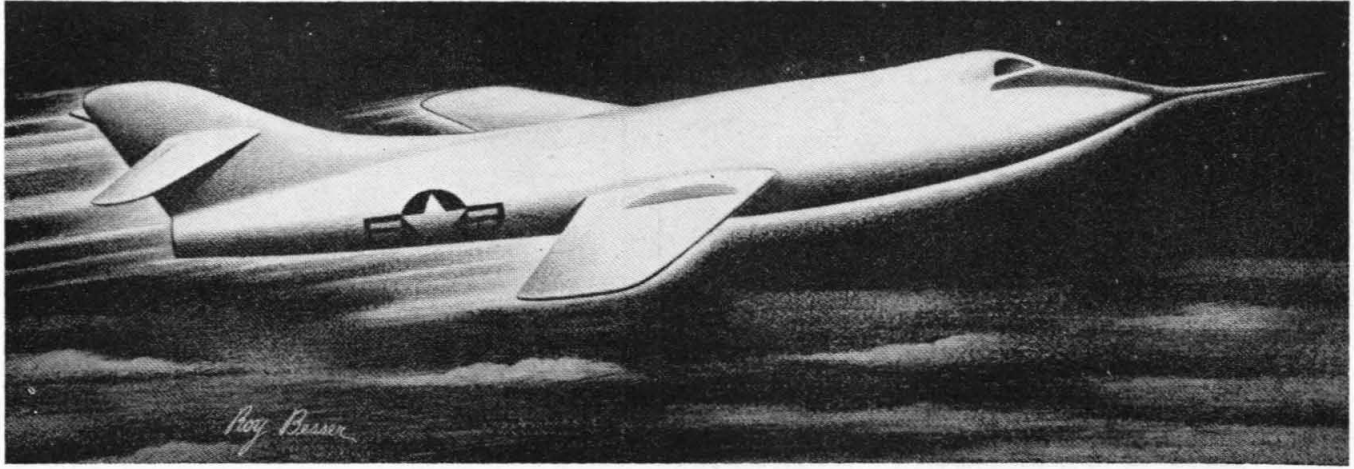


OAK KNOLL CLEANERS

LAUNDRY and TAILORING

Rain or Shine We're Always on Time

902 E. California Street — Pasadena SY. 3-6704



DOUGLAS "SKYROCKET"

CAL TECH MEN

helped build this airplane

The "Skyrocket" — one of the fastest airplanes ever created — is just one of the many projects at Douglas to which Cal Tech graduates are assigned.

For three decades Cal Tech men have been coming to Douglas, contributing to the growth and progress of this company and to the science of aviation. They have found Douglas a good place to realize their creative ambitions.

With a backlog of orders running into millions for the construction of commercial and military aircraft, as well as special advance "projects," production continues at a high level throughout the Douglas organization.

This company is always interested in men soundly trained for work as aeronautical, mechanical, electrical and civil engineers . . . physicists . . . and mathematicians.

DOUGLAS AIRCRAFT COMPANY, INC., SANTA MONICA, CALIFORNIA

DEPEND ON DOUGLAS



30TH ANNIVERSARY YEAR

"World's
No. 1
Typewriter"

NEW
Gray Magic
ROYAL
STANDARD
and
PORTABLE

Exclusive
ROYAL
Distributors



Rent a
Typewriter

—
Large
Selection

ANDERSON TYPEWRITER CO.

120 E. Colorado St. - Pasadena
— Since 1912 —

Next to Tower Theater (FREE Parking in Rear)

Three Good Names

Chrysler

ORR

Plymouth

Always Dependable

337 West Colorado Street

Pasadena, California

• SY 6-2656

• RY 1-6442

JURGENSEN'S
Grocery Company

PASADENA
842 E. California
1172 Linda Vista

LAGUNA BEACH
1910 S. Coast Blvd.

. . . *Delivery Service* . . .

R CERTIFIED

CONCRETE

• READY MIXED

E. Lockett & Son
BUILDING MATERIALS
552 South Raymond Ave.
Pasadena 2, Calif.

INSURANCE

FIRE • MARINE
AUTOMOBILE • CASUALTY
LIFE • ACCIDENT
WORKMEN'S COMPENSATION

To provide you
maximum protection
at minimum cost.

Sole Pasadena Agents
HARTFORD FIRE INSURANCE COMPANY

General Agents
HARTFORD ACCIDENT & INDEMNITY CO.

INSURANCE DEPARTMENT

The WILLIAM WILSON Co.

Parking — 254 East Union

40 NO. GARFIELD

PHONES SY 3-8111
RY 1-6961

Fine Covers
For
Fine Books

THE S. K. SMITH
COMPANY

5260 West 104th Street
LOS ANGELES 45, CALIFORNIA
ORegon 8-3419



Photography

CRUD ALLEY presents
"Snow White and the Seven Dwarfs"

THE PLAYERS



- Snow White Dale
- Doc Nick
- Sleepy Rod
- Dopey Howie
- Bashful Babe
- Grumpy Holmes
- Sneezy Moss
- Happy Al
- Witch Figgie

or
"Who Put the Wiener in the Witch's Cleaner?"

LUcas 8126

LUcas 8126

MELL O. HALDEMAN CORP.

Pipes - Valves - Fittings
 Plumbing & Heating Supplies

2220 E. 37th Street
 LUcas 8126

Los Angeles
 LUcas 8126

Compliments of

CRANE CO.



Electronic Parts and Supplies

DOW RADIO, INC.

1759 E. Colorado St.

TRY US FIRST

C and H

CEMENT CONTRACTORS

*Builders of the new tennis
 courts in Tournament Park*

5812 N. Kaufman

TEMPLE CITY, CALIF.

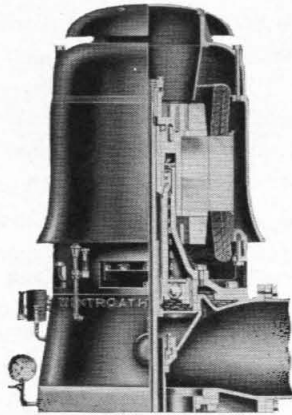
CU 3-3429

Wintroath Pumps, Inc.

Wherever water needs a lift

The Type KA "UNI-MOTOR"

ELECTRIC DRIVE Pump Head in this illustration can be readily converted to RIGHT-ANGLE GEAR DRIVE or BELT DRIVE simply by replacing the motor assembly with the type drive desired.



END-SEAL IMPELLERS

Wintroath engineers have specialized in the development of pump bowls, with the result that unsurpassed records for sustained efficiency and long life have been attained by Wintroath Pumps.

EXCLUSIVE With WINTROATH are WINTROATH ENCLOSED END-SEAL IMPELLERS — the design of which permits quick, easy adjustment to maintain close-running clearance between impeller seal ring and upper face of bowl casting. Wintroath-designed END-SEAL Impellers provide the ONLY POSITIVE METHOD of adjustment for sustained performance unaffected by lateral wear in shaft or bearings. WINTROATH END-SEAL TYPE IMPELLERS are balanced dynamically and hydraulically to assure vibration-free performance.



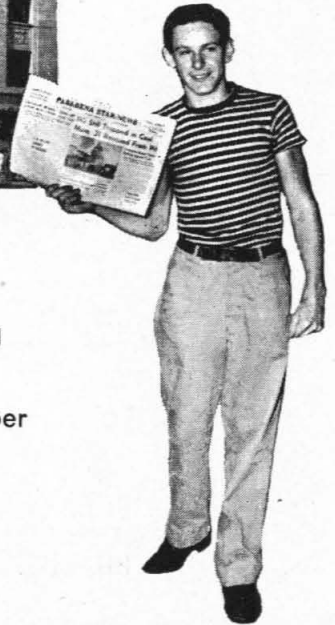
Wintroath Pumps, Inc.

1100 So. Meridian Ave., Alhambra, California

*Personalized Service For All Makes of
Vertical Turbine Pumps*

BRANCH OFFICES:

BAKERSFIELD • FRESNO • TULARE
PHOENIX, ARIZONA • HEREFORD, TEXAS



More People are Reading
The STAR-NEWS
Than Any Other Newspaper
Published in the
San Gabriel Valley

The **STAR-NEWS**

Colorado Street and Oakland Avenue

SYcamore 6-9211

RYan 1-7188



ELECTRONIC SUPPLY CORPORATION

Wholesale Radio and Electronic Supplies
2615 E. Foothill Blvd. Pasadena 8, California

Earl M. Jorgensen Co. Steel

10650 South Alameda Street

Los Angeles, California

Qualified to render Service in many fields



The SMITHway is the path of ceaseless research in the field of industrial science, progressively developing better products and more efficient ways of making them to the end that this Company can so serve as to constantly enrich the enjoyment of human living.

For 77 years, the A. O. Smith Corporation has been known as such a pioneer of new ideas and is recognized throughout the engineering world for its important contributions to the consumer, agricultural and industrial fields.



PACIFIC COAST DIVISION, 5715 Smithway Street,
Los Angeles 22, Calif. Phone UNDERhill 0-3361
GENERAL OFFICES Milwaukee, Wisconsin

FACTORIES AT Milwaukee • Houston • Los Angeles
Kankakee, Ill. • Toledo • Succasunna, N.J. • Tipp City, O.

- AERONAUTICAL Propeller Blades.
- AUTOMOTIVE Passenger Frames; Truck Frames; Control Arms; Miscellaneous Stampings.
- ELECTRODES Electrodes; AC Welding Transformers.
- FARM EQUIPMENT Harvestores.
- GASOLINE PUMPS Gasoline Dispensing Pumps.
- GLASS COATING Glass Frit; Packaged Glass Coating Unit.
- GLASS-LINED TANKS Glass-Lined Tanks; Stainless Steel Tanks and Fermenters; Bear Tank Fittings.
- HEATING Hot Water Boilers—Gas; Gas Conversion Burners. LPG LPG Systems.
- METERS Petroleum Meters and Gauges.
- MOTORS Fractional and Integral Motors, Special and Standard; Vertical Hollow Shaft Motors.
- PROCESS EQUIPMENT Pressure Vessels; Penstock; Heat Exchangers; Ordnance Products.
- PUMPS Turbine Pumps; Water Well Casing; Portable Submersible Electric Pumps.
- RAILWAY Draft Gears; Railway Gratings; Commercial Gratings.
- TUBULAR Line Pipe; Casing; Youngstown Tubing (Jobbed).
- WATER HEATERS Domestic Glass-Lined and Galvanized; Electric and Gas Heaters; Dairy Heaters; Burkay Hi-Volume, Two Temperature Water Heaters; Galvanized Tanks.

THE MUSIC ALBUM — SAN MARINO'S DISTINCTIVE RECORD SHOP



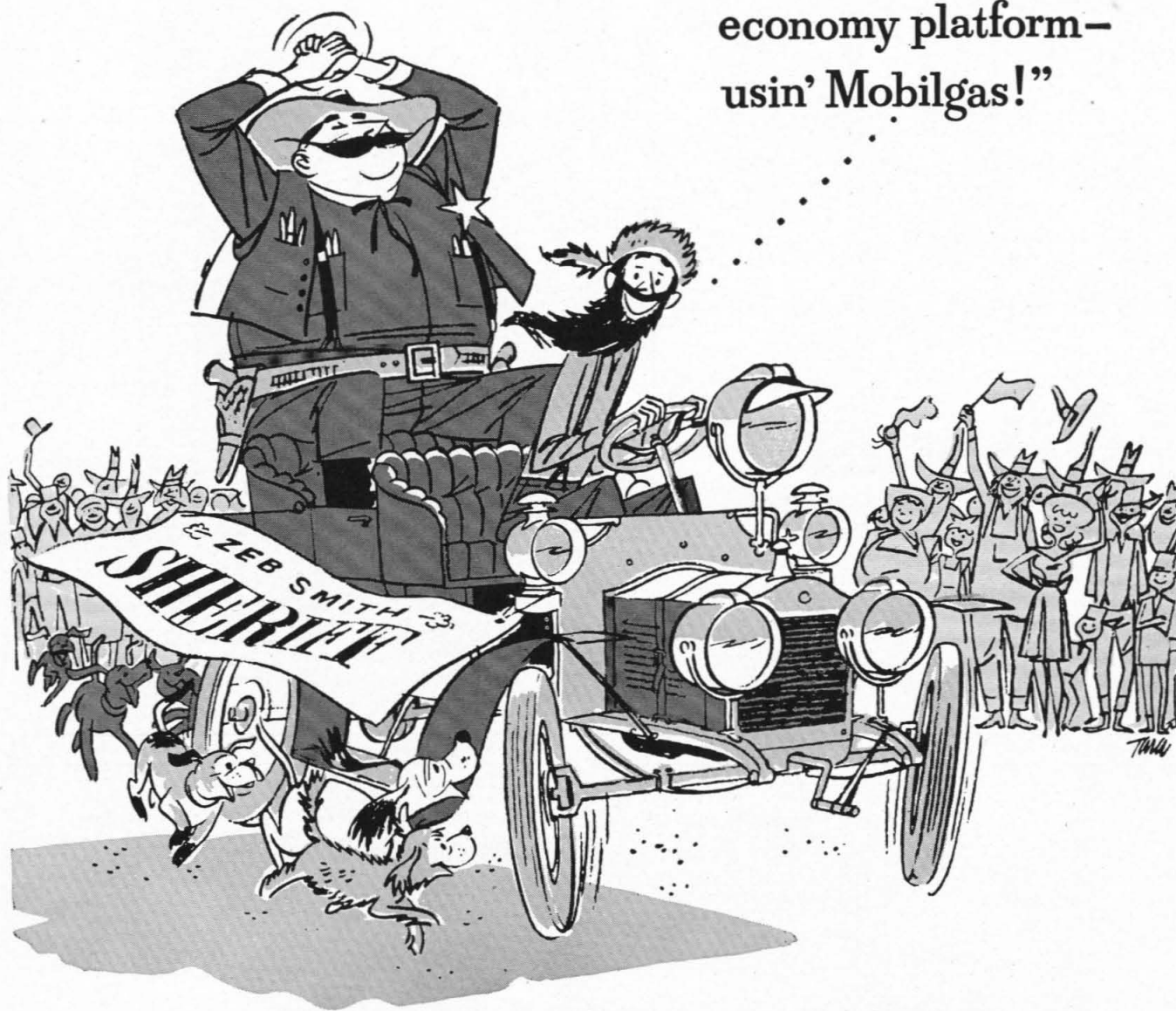
Bob Evans and Ann Evans Discuss Relative Merits of Long Playing Records with Earl Hefner, Kyle Catterlin, and Barney Engholm.
2156 HUNTINGTON DRIVE, SAN MARINO I MILE FROM CAMPUS PHONE AT 9-1951

Distributors for
Nationally known manufacturers of
**METAL CUTTING TOOLS and
INDUSTRIAL SUPPLIES**



MACHINISTS' TOOL & SUPPLY CO.
3690 Santa Fe Avenue
Los Angeles 58, California

“he won on an
economy platform—
usin’ Mobilgas!”

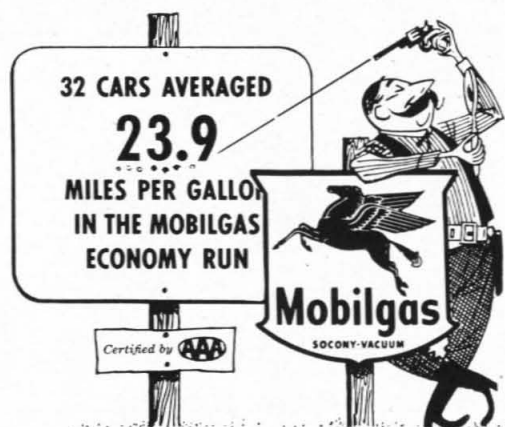


Yes sir, Mobilgas certainly showed its mileage potential in the 32 American cars which competed in the Mobilgas Economy Run. The average of 23.9 miles per gallon demonstrates the economy of Mobilgas in 1951 cars.

Drivers, participants, and our own G. P. fuel engineers all tell us that the mileage figures scored by the various cars in the Run can be closely approached by anyone who is a *good driver, maintains a well-conditioned car, and uses quality products like Mobilgas and Mobiloil.*

Sincere thanks to the California Institute of Technology which provided the observers for the 1951 Mobilgas Economy Run. This assistance was invaluable in making the event an impartial and fair test of automotive performance.

GENERAL PETROLEUM CORPORATION
— converting nature's gift to better living



WINS ALL-TIME ECONOMY RECORD IN 1951 MOBILGAS ECONOMY RUN ... 31.05 MILES PER GALLON



Winning Rambler equipped with overdrive and driver Pierce Venable with trophy awarded for victory in grueling 840-mile stock car classic, Los Angeles to Grand Canyon.

WINS ALL AMERICA'S HEART FOR BEAUTY, SMART STYLING AND POWER-PACKED PERFORMANCE

Nash Rambler

***Smart New Companion Car to the
Luxurious Nash Ambassador and the Popular
Nash Statesman—Available in Convertible Sedan
and All-Purpose Sedan Models***

SWEEPSTAKES AWARD

1951

Mobilgas Economy Run

LINCOLN SEDAN

2194.631 Ton Miles

66.484 Ton Miles per Gallon

25.448 Miles per Gallon

Driven by

Les Viland

Entered by

BOB ESTES AUTOS

964 So. LA BREA
INGLEWOOD, CALIFORNIA

1951 Mobilgas Economy Run

Winner Class F

CADILLAC 61

21.719 Miles per Gallon

55.492 Ton Miles per Gallon

Driven by

J. E. Woodruff

Entered by

Jack Symes Motors, Inc.

655 E. GREEN ST.
PASADENA
SY. 2-2151

1951 Mobilgas Economy Run

First Place Winner

Class G

CHRYSLER IMPERIAL

V - 8 180 Horsepower

Driven by

Mel Lewis

Entered by

Lloyd Gregg Inc.

4450 LANKERSHIM BLVD.
NORTH HOLLYWOOD
SU 3-5118 ST 7-3624

PACKARD WINS... 1st and 2nd Places in Classes 'D' & 'F' in Mobilgas Economy Run

From Los Angeles to the Grand Canyon via Death Valley and Las Vegas — 840 miles; altitude range from 279 feet below sea level to 7005 feet above; temperature spread from below zero to the high 80s; every conceivable driving condition.

PACKARD "200" WON 1st place in Class "D"

—Cars priced \$2176 to \$2450 at Detroit
—AVERAGING 22.023 MILES PER GALLON

PACKARD "300" WON 2nd place in Class "F"

—Cars priced \$2701 to \$3000 at Detroit
—AVERAGING 20.941 MILES PER GALLON

Both cars equipped with Packard standard transmission and optional overdrive.

Packard's remarkable performance in the world's greatest economy classic — supervised by Contest Board of the AAA — provides convincing proof of the new Packard's amazing economy. See the all new 1951 Packard today.

Earle C. Anthony, Inc.

1000 SOUTH HOPE STREET
LOS ANGELES 15 PR. 4044

Ask the Man Who Owns One

Compliments of

ART HALL

Incorporated

Lincoln • Cosmopolitan • Mercury

Entered Mercury Twice

Winner

Sweepstakes 1950

Class C 1951

Driven by

Bill Stroppe

*"For the best deal
of all — see ART HALL"*

AL HARRIS
Manager

Telephone 70-6961
1633 American Ave.
LONG BEACH 13, CALIF.

PLYMOUTH CONCORD

24.145 Miles per Gallon

1951 Mobilgas Economy Run

Average For All Cars: 23.9 mpg

Entered by

GREENE-HALDEMAN

Chrysler - Plymouth Dealer

2100 S. Figueroa, L. A.

RI 0111

Compliments of

STOREY — RICKETTS

Your Long Beach Hudson Dealer



CADILLAC — *where Quality and Economy Meet*

1501 American Ave.

RIDINGS MOTORS

Long Beach

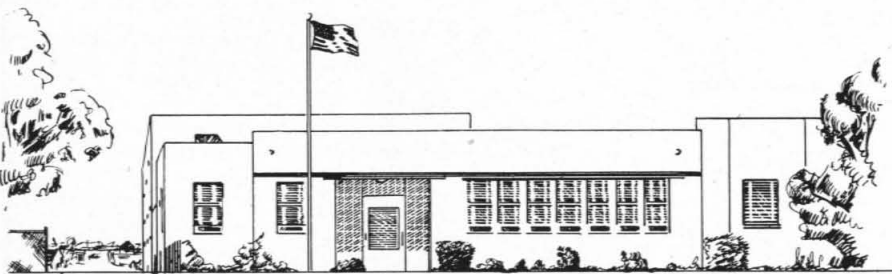


Manufacturers of Scientific and Industrial Instruments
SOUTH PASADENA, CALIFORNIA

BECKMAN INSTRUMENTS

are Instruments of Quality

- . . . They serve industry and science with accuracy and dependability.
- . . . They are recognized as the world's standard for excellence.

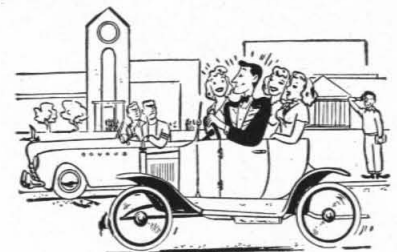


"Walk In — Dance Out"

Velo and Yolanda DANCE STUDIOS

Student Rates
Now in Effect

At Colorado and Euclid
SYcamore 6-6178



**NEVER UNDERESTIMATE
THE POWER OF A DEDRICK'S TUX**

dedrick's
THE TUX SHOP
6351 SO. OLIVE • LOS ANGELES
5317 MELROSE • HOLLYWOOD
252 SOUTH LAKE • PASADENA
VA 7315 • GL 4167 • SY 64651

NOW AT
252 SO. LAKE

SALES-RENTALS

Test
Chambers

Cabinets and Rooms for a wide range of temperatures,* relative humidities, and altitudes.

A typical chamber has ranges of — 100° to + 200° F, 20 to 95% relative humidity, 0 to 100,000 feet altitude.

HIEATT *Engineering Co.*

2228 N. HOLLYWOOD WAY

BURBANK

W. L. Holladay '24
Chief Engineer

*Down to — 160° F, if you want it.



STUFF SHIRT

A RESTAURANT
*with an atmosphere
of old-world charm*

*Famous for its Cellar
and Cuisine*

LUNCHEON

Served 12 Noon - 2 P.M.

DINNER

Served 5 P.M. - 11 P.M.

Daily Except Monday

1000 E. Green St., Pasadena
SYcamore 2-9916



PRINTING — Shows what you sell

Whether it is a faithful and interesting recording of a year's happenings — or a manufactured product

PRINTING — Proves what you tell

Within the covers of this yearbook is inscribed in word and picture a record of the events of the past year produced through the combined efforts of an efficient staff cooperating with men who have the "know how" to interpret this record on the printed page.

PRINTING — As you see it here —

and in 16 other current Yearbooks
By

P-B Press, Inc.

Progress - Bulletin Building
320 S. Thomas St. Pomona

- ★ SALES
- ★ SERVICE
- ★ PARTS

Harlan G. Loud


Since 1925

Colorado at Hill



BASIC BUILDING MATERIALS
 MANUFACTURERS, PRODUCERS, DISTRIBUTORS

1650 SOUTH ALAMEDA STREET
 LOS ANGELES 54, CALIFORNIA

LEONARD W. ROSS '27, VICE-PRESIDENT

"The West's Most
 Western Town"

SCOTTSDALE

IN THE HEART OF
 ARIZONA'S

PARADISE VALLEY

Enjoy the balmy winter climate, the famous Camelback Mountain resorts, the quaint Western stores, and the genuine spirit of informality which abounds in The Valley of the Sun. Only twelve miles from metropolitan Phoenix, Scottsdale is her most rapidly expanding desert suburb, an area of modern and tasteful ranch homes with plenty of breathing space. Horseback riding, swimming, golf, and tennis are some typical winter sports in the Camelback area. Indeed, the visitor has a pleasing and memorable surprise awaiting him when he arrives in the "West's Most Western Town."

CONTACT
BARNEY ENGHOLM,
 Scottsdale Travel Representative

VISIT BEAUTIFUL

**KANSAS CITY
 MISSOURI**

"THE HEART
 OF AMERICA"

- COSMOPOLITAN
CULTURE
- DELIGHTFUL
CLIMATE
- GLORIOUS
SCENERY

**KANSAS CITY
 CHAMBER OF COMMERCE**

Local Agent — J. Boppart

Best Wishes



FROM YOUR
CALTECH BOOKSTORE