

# C. I. T. NEWS

## PRIVATE JOHN ROBERT THOMAS

The alumni will regret to learn of the loss of Private John Robert Thomas, son of Professor Franklin Thomas, Dean of Upper Classmen of the Institute. Private Thomas was killed in action on April 4 in Germany with the 4th Infantry Division of the Seventh Army.

It may be remembered that another of Dean Thomas' sons, Ensign Edward Albert Thomas, Navy flier, was lost at sea off Norfolk, Virginia, two days prior to the attack on Pearl Harbor.

## ALUMNI SEMINAR 1945

THE Alumni Seminar Board for 1945 can well be proud of its effort expended upon the Seminar held on Sunday, April 22, on the Campus. Kenneth Belknap, chairman, was assisted by George W. Russell, assistant chairman; Ernest B. Hugg in charge of luncheon arrangements; George Rice III, printing; Ward B. Foster, introductions; W. H. Simpson, registration; assisted by Allen Laws, T. H. Andrews and George Pickett. Some 200 members of the Alumni Association gathered in Throop Hall to register and then proceeded to Chapel in Dabney Lounge. The Chapel was directed by Paul Ackerman, Campus Y.M.C.A. secretary, and the address was given by Dr. E. G. Williams, pastor of the Highland Park Presbyterian Church.

After the Chapel, the assembly moved to the Arms Lecture Hall to hear three excellent speakers. Professor Carl D. Anderson of the Institute staff, as the first speaker, traced some of the developments of rocket ordnance, illustrating his talk with models and cutaway sections of rockets. A motion picture served to show the group the general action and use of rocket ordnance. The alumni were pleased to welcome Professor Horace N. Gilbert, the second speaker, back to the Campus and to learn his opinions about the industrial postwar possibilities of southern California. It is hoped that Professor Gilbert's talk will appear soon as an article in *Engineering and Science*.

The third speaker was Professor Roger Stanton who discussed some of the work of the foods research project which has been under the direction of Doctor Henry Borsook, professor of biochemistry at the Institute. The particular discussion centered around the development of a highly nutritious low-cost meal for use by the United Nations Relief and Rehabilitation Administration. He pointed out that the foods for the Administration must be inexpensive and yet highly nutritious. Furthermore, they must occupy little shipping space and have as long a shelf life as possible and also they must be adaptable to the food habits of different nations. After discussing some of the objectives of this program, Professor Stanton announced that the luncheon for the Seminar was to consist of some of the items which he discussed. Some in attendance probably had misgivings upon this announcement of what they might be served for lunch. However, their fears were allayed when luncheon was served in Dabney Lounge. The meal consisted of: Shepherd's Pie made of an all-purpose meal rich in protein and other necessary food elements to which was added

one ounce of meat per person and topped with mashed potatoes. This was accompanied by a salad consisting principally of reconstituted cabbage which might better be known as cole slaw. For dessert, the group was served a high protein chocolate pudding with cookies of special vitamin content. The majority of the alumni declared the meal to be highly successful.

Before the luncheon, the group was given the opportunity of inspecting the new Mechanical Engineering Laboratory under the guidance of Professor R. L. Daugherty. In the afternoon, the group returned to the Arms Lecture Hall and listened first to a short report by Professor Roger Stanton on another phase of the work which has been conducted by Professor Henry Borsook of the Institute staff. The talk was based on the results of a large-scale experiment on industrial efficiency of workers in relation to diet. This work was conducted under the sponsorship of several groups, including the National Research Council's Committee on the nutrition of industrial workers. Professor Stanton indicated that the scientifically administered vitamin-mineral diet supplements resulted in higher work performance, reduced absenteeism, and produced the equivalent of a four per cent gain in manpower at Lockheed Aircraft Corporation where the tests were carried out.

The second talk of the afternoon was given by Professor Linus Pauling, head of the Division of Chemistry at the Institute. Professor Pauling discussed blood plasma and plasma substitutes in his usual admirable manner. He reviewed the general character of certain constituents of blood and in particular, plasma, indicating the character and function of plasma substitutes, some of which have only recently been announced.

Professor Clinton K. Judy, representing Doctor Robert A. Millikan, gave a few closing remarks, indicating a few of the things that the Institute was thinking about with respect to postwar activities and curricula. It was, in general, agreed by all those attending the Seminar that it had been a very profitable day from the standpoint of information secured and also from the point of view of meeting again many fellow alumni.

## CHICAGO ALUMNI MEETING

COINCIDENT with the presence in Chicago of Dean Franklin Thomas, attending a meeting of the Board of Direction of The American Society of Civil Engineers, a dinner meeting of C.I.T. Alumni was held at the University Club on the evening of April 17.

To provide for future meetings, Dr. LeVan Griffis was designated secretary of the group, which numbers about 40, including all who are resident in the Chicago area. Those present at the recent dinner were: Harold J. Alwart '37; Roland Budenholzer '39; Beverly F. Fredendall '29; LeVan Griffis '37; Gene B. Heywood '18; Jesse E. Hobson '35; L. E. Medlin '27; F. F. Offner '34; Warren E. Wilson '39; Abe M. Zarem '44; Yung-Chiang Hwang '43.

## SAN FRANCISCO MEETING

The San Francisco Chapter of the Alumni Association will hold their next meeting on June 3. This meeting will be the annual Sports Day and Picnic at the home of Howard G. Vesper, located at 6160 Acacia Avenue in Oakland. Any Tech Alumni living in or visiting the Bay Area is invited to attend and bring his wife or girl friend.—*Maurice T. Jones '26, Secretary.*

## ATHLETICS

By H. Z. MUSSELMAN,  
Director of Physical Education

CALTECH'S Spring sport teams have been winning the majority of their contests and are making fine records in the athletic history of the school.

In the feature track meet of the season, U.S.C. nosed out a fighting Tech team 65  $\frac{2}{3}$  to 65  $\frac{1}{3}$ . Both coaches juggled their entrants to obtain every possible advantage, with several upsets enlivening the meet. Bill Frady and Roger Clapp placed 1-2 in both sprints, with the winning times clocked at 10 seconds and 22.4 seconds. George Gill copped the two-mile in 10 minutes 33.3 seconds, but lost to Elias of U.S.C. in the mile. Stuart Bates nosed out his teammate, Ken Shauer, in the 440 in 51.3 seconds and Shauer again lost by inches to Elias of S.C. in the 880. Don Tillman, still handicapped by a back injury, entered only the discus, where his winning mark of 124 feet 11 inches accounted for the only Caltech victory in the field events. With the pole vault and relay as the last events, Tech needed 8  $\frac{1}{3}$  points to win. The relay team of Frady, Taylor, Bates and Shauer romped to an easy victory in 3 minutes 27.5 seconds, but Nielsen was forced to accept a tie at 12 feet in the bamboo event, with Carlsen and Halling, both S.C. men, to leave Tech trailing by a fraction of a point.

Spurred on by their fine showing against U.S.C., Tech bounded to new heights to take top honors in the A.A.U. Championship with a team score of 36  $\frac{8}{15}$  points. S.C. placed second with 26  $\frac{1}{2}$  points, U.C.L.A. third with 16  $\frac{1}{3}$ , with various service teams trailing. Tech's "Big-

3," Frady, Shauer and Gill almost won the meet single handed in scoring 26 points. Frady retained his sprint laurels in winning the 100 in 10.2 seconds and the 220 in 22.2 seconds. Shauer outlasted Bates in the quarter to win in 50.1 seconds and took second in the half. Gill, running the best race in his career, won the two-mile handily in 10 minutes 6.5 seconds and placed second in the mile.

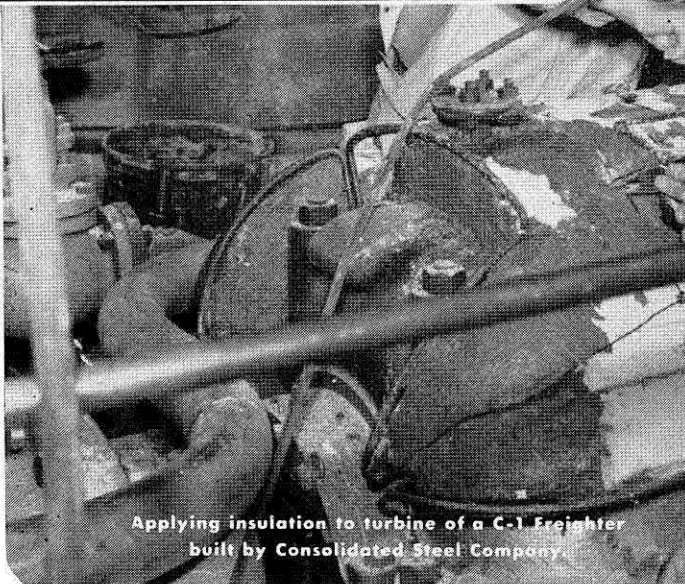
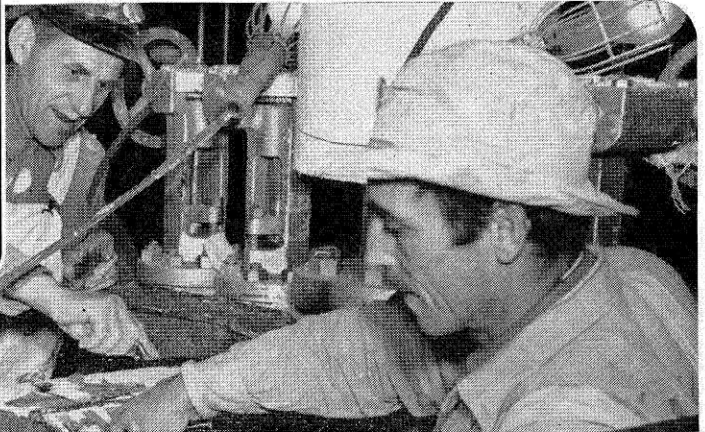
Winning ten first places, Tech rolled up an easy 76  $\frac{1}{3}$ -53  $\frac{2}{3}$  victory over Oxy. Double winners for the Engineers were Bill Frady with a 10-second 100 and a 22.4-second 220, and Don Tillman with marks of 44 feet 7  $\frac{3}{4}$  inches in the shot, and 132 feet 6  $\frac{1}{4}$  inches in the discus. Highlight of the meet was Ken Shauer's time of 1 minute 59.4 seconds in the half mile.

Continuing their winning ways, the baseball team chalked up league victories over U.S.C. 10-9 and Oxy 13-2. In the U.S.C. game, the Trojans held an 8-3 lead in the seventh, but Tech closed the gap when Milt Strauss, right fielder, tripled and John Anderson, first baseman, and John Schimenz, catcher, hit home runs to score four runs. The Beavers rallied again in the ninth, with shortstop Bob Jones singling to drive in the winning run. In the Oxy game, Tech led all the way, and featured a six-man scoring spree in the eighth. Paul Henry, third baseman, led the attack with two singles and a homer. Dick Roettger limited the Bengals to five hits, three of which were infield raps.

Trouncing the strong Cal Poly team from San Luis Obispo 7-6 in a non-league encounter, Tech again came from behind to win. With the Beavers holding a lead throughout the game, Poly scored twice in the ninth to

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tie the score at 6-all, but Milt Strauss, first man up in the home half, rapped a homer to break up the ball game.

In trimming Caltech 11-9, the U.S.C. Trojans handed the Engineers their first league defeat. Tech scored five runs in the fifth on singles by Larry Collins and Anderson, Strauss' triple and Schimenz's home run, but S.C. came back in the seventh with six markers to put the Trojans out in front. A belated rally in the ninth, when Jack Leech doubled to drive in two runs, fell short of victory. Tech out-hit the Trojans, but failed to connect at opportune times with men in scoring position.

In the league standings, Tech with three won and one lost is in second place, just a half-game behind U.C.L.A. In non-league contests, the Beavers have won seven, lost one and had one game end in a tie. The team is hitting well and has been playing fine ball against the strongest teams in this area.

Winning handily the first three meets on the schedule, Tech's swimming team appeared headed for an undefeated season, as victories were chalked up over U.S.C. 41-34, U.C.L.A. 51-24 and Occidental 55-20. However when Francis Piemme, the undefeated sprinter, was transferred to Great Lakes, S.C. was able to nose out Tech in the return meet 43-32. The Beavers should win the remaining contests with U.C.L.A. and Occidental and tie U.S.C. for the Conference Championship.

Two Caltech records were broken in the Occidental meet. In the 50-yard free style, Piemme with a 24.8 second mark, erased the 25.3 second record established by John Nelson in 1943, while Rex Cherryman's 1 minute 50.6 seconds time in the 150 yard backstroke broke by 4 seconds the record registered by Bud Olds in 1942.

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## AWARDED BRONZE STAR MEDAL

**T**HE Bronze Star Medal has been awarded to Lieutenant Colonel Donald P. Barnes '30 "for his outstanding work in supervising the camouflage and maintenance operations on airfields constructed by the IX Engineer Command in France and Belgium." Colonel Barnes was commanding officer of an aviation engineer camouflage battalion and an airfield maintenance unit during the period from March 30 to December 31, 1944, and it was for his services during that period the award was made.

Colonel Barnes was, during the first part of this period, in charge of training engineer and air-force personnel in camouflage technique. Later, during the invasion of France, he directed camouflage work on airdromes and assumed the command of the maintenance unit. The citation accompanying his award reads, "his careful planning, superior technical knowledge, and untiring personal endeavors have been an inspiration to his super-

riors and subordinates alike and reflect great credit upon himself and the armed forces."

Prior to entering service, Colonel Barnes was with the U. S. Bureau of Reclamation and was editor of "Civil Engineering."

## COMMENCEMENT AND ANNUAL MEETING

**C**OMMENCEMENT exercises will be held on June 22 at which time approximately 155 seniors will receive degrees and about 29 Navy V-12 trainees will receive certificates. The exercises will be held on the Campus of the Institute. As is customary, the annual meeting and dinner of the Alumni Association will be held on the evening of the commencement. The place has not been announced but notices will be sent out in due time. This year reunions of the classes 1915, '20, '25, '30, '35 and '40 will be featured. Class secretaries are urged to assist in getting those members of their respective classes who are in southern California to attend.

## PERSONALS

**I**T WILL be helpful if readers will send personal items concerning themselves and others to the Alumni Office. Great interest has been shown in these columns, but more information is required. Do not hesitate to send in facts about yourself, such as change of position or location, present job, technical accomplishments, etc. Please help.

—Editor.

### 1922

FREDERIC A. MAURER, formerly a lieutenant in the Army, has been relieved from active duty and is back in civilian life. He is living at Ontario, Calif.

HAROLD S. OGDEN is an electrical engineer with the General Electric Company, Erie, Pa.

LOUIS H. ERB holds the position of general personnel supervisor (northern California and Nevada area) for the Pacific Telephone and Telegraph Company, San Francisco, Calif.

### 1923

HAROLD A. BARNETT heads his own engineering firm in Pasadena, as well as being city engineer for the City of San Marino, Calif.

W. L. BANGHAM is a civil engineer employed by Harold A. Barnett.

### 1924

LIEUTENANT-COLONEL EDWARD D. LOWNES was home on leave in January after serving 26 months in the northwest Pacific. Ed, who is with the Army Engineers, supervised many construction projects during his tour of duty in that area.

FRANK D. TELLWRIGHT is vice-president and general manager of the Pacific Telephone and Telegraph Company at Portland, Ore.

### 1925

THEODORE C. COLEMAN, vice-president of sales, Northrop Aircraft, has recently returned from a business trip to Washington. While there a luncheon of Tech men was arranged. Those present were: Lieutenant-Colonel Wayne Rodgers, '26; Colonel James Boyd, '27; Lieutenant-Colonel Tom Evans, '28, and Baker Wingfield, '26. All except Wingfield are working in the Pentagon Building in Washington, in the Engineering Corps. Mr. Wingfield is with the Public Building Administration in Washington.

LIEUTENANT - COLONEL JOSEPH MATSON, returning to his post at Hono-

lulu from a business trip to Washington, made a brief stop-over in Pasadena.

ARTHUR C. WERDEN is now assistant superintendent of hydro generation for the Southern California Edison Company, Ltd., Los Angeles, Calif.

MAJOR J. F. VOELKER is liaison officer in charge of two plants engaged in chemical warfare, at Dallas, Texas.

### 1928

RALPH W. CUTLER was recently appointed general manager of the Los Angeles plant of the Western Pipe and Steel Company.

MAJOR ED JOUJON-ROCHE is serving as executive officer with an Engineer Combat Battalion in the Dutch East Indies.

ROBLEY D. EVANS is associate professor of Physics at Massachusetts Institute of Technology, Cambridge, Mass.

### 1927

ALAN E. CAPON was recently elected president of the Glendale-Burbank Engineers Club.

D. Z. GARDNER is assistant division engineer (Albuquerque Division) of the Atchison, Topeka & Santa Fe Railway Company at Winslow, Arizona.

LIEUTENANT - COLONEL R. C. BLANKENBURG, formerly of the operating department, general office of the Southern California Edison Company, has had plenty of opportunity to see how utilities are run in France. He states that France is very resourceful in getting repairs made quickly and has had to operate in many instances with little or none of such necessities as protective equipment, meters, telephone communication, etc. Incidentally, he observes they build and operate their systems very much as we do in this country.

ROBERT F. HEILBRON is head of the science department of the San Diego High School.

### 1929

LIEUTENANT-COLONEL THOMAS H. EVANS, U.S.A., and Eva Katherine Peterson announce their marriage on April 10 at Fort Myer, Va. Lieutenant-Colonel Evans has an office in the Pentagon Building, Washington, D.C.

LIEUTENANT-COLONEL BILL MOHR has been transferred from Fort Jackson to the European Theater of war.

FIRST LIEUTENANT FRED CLINE is in the Overseas Construction Command in the South Pacific.

### 1930

EDWARD M. THORNDIKE is assistant

professor of Physics at Queens College, Flushing, N. Y.

ALEX J. HAZZARD is a technician for the Pacific Telephone and Telegraph Company at San Francisco, Calif.

HOWARD W. WAITE is production engineer for Electrical Development Company, Los Angeles, Calif.

### 1931

LIEUTENANT (j.g.) MARVIN W. HALL is safety officer at the Naval Air Station at Seattle, Wash.

LIEUTENANT-COMMANDER WALTER DICKEY is in Public Works at Hunters' Point, Calif.

LIEUTENANT BYRON JOHNSON, C.E.C., U.S.N.R., has been in the Navy since 1942 and was stationed at Pearl Harbor Navy yard until a short time ago when he was transferred to the Naval Training Station at Davisville, R. I. for Public Works.

CHARLES A. WILMOT is a chemist for the Ethyl Corporation, Wilmington, Delaware.

WM. FRED ARNDT is a development supervisor for Naval Research Laboratories, U.S. Navy Underwater Sound Laboratory, New London, Conn.

TED JURLING is assistant chief engineer for Byron Jackson Company, Los Angeles, Calif. He was formerly located in Houston and has now transferred most of his activities to the Los Angeles office.

### 1932

BRIAN SPARKS is an airline captain operating for the Air Transport Command (Army) and is flying the Atlantic to bring back the wounded.

MILLS S. HODGE is personnel manager of Procter and Gamble Manufacturing Co., at Long Beach, Calif.

WILLIAM A. ADAMS is a foreman at Procter and Gamble Manufacturing Co. at Long Beach, Calif.

ALFRED B. FOCKE is a physicist in the Navy Department, Bureau of Ordnance, Washington, D.C.

GRANT D. VENERABLE is the father of a son, Lloyd Dennis, born March 6.

TETSUO IWASAKI is employed as a research and development engineer with a Philadelphia concern which is engaged in the manufacture of aircraft instruments.

### 1933

MAJOR ROBERT MacDONALD has been overseas for four years and now is stationed in France.

WILLIAM T. WHEELER is a structural engineer with the U. S. Engineers at San Francisco, Calif.