

C. I. T. NEWS

DEATH TAKES JAMES A. B. SCHERER

DR. JAMES A. B. SCHERER, president of Throop College of Technology from 1908 to 1920, died in Santa Monica on February 15, 1944. Death came after a long illness.

Dr. Scherer was born in Salisbury, North Carolina, May 22, 1870. He held degrees from Roanoke College,



JAMES A. B. SCHERER

the University of South Carolina and Pennsylvania College. During his lifetime Dr. Scherer was an historian and a prolific writer, as well as a college administrator. In earlier years he taught school in Japan where he was married in 1897. In World War I, he was active in war work, being a member of both National and State Councils of Defense and a special representa-

tive of the United States Shipping Board. After leaving Caltech he was director of the Southwest Museum for a number of years. Thereafter he devoted himself to lecturing at various universities and colleges, to writing, and to travel.

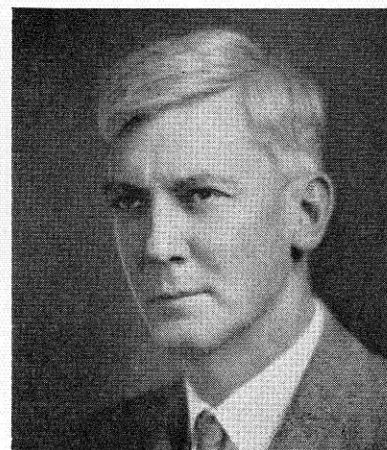
Dr. Scherer is survived by his widow, Mrs. Bessie Brown Scherer, a daughter, Mrs. Isobel Mosher, and a son, Dr. Paul A. Scherer, who is now in Washington as head of the transition office of the National Defense Research Council.

In a tribute to Dr. Scherer, Dr. Robert A. Millikan stated, "Dr. Scherer did a great job in the early days of the development of California Institute of Technology. He was essentially a crusader who shared the vision of the trustees as to possibilities here in the way of serving the interests of this community and this nation, and when there was as yet practically no money in sight needed to do the job, he kept beating the tom-toms as to the opportunities and possibilities that lay ahead. At that stage, it took such a man as he was, a man of great enthusiasm, of great devotion, of great talent as a public speaker and also as a writer, to keep the flame going in this community under discouraging circumstances and with a pathetically small supply of fuel in sight to feed that flame. He did a yeoman's service at the most critical hour which any institution ever goes through, an hour at which the great majority of similar enterprises flicker and die. All honor to one of southern California's pioneers."

**California Institute
of Technology
ALUMNI SEMINAR
April 16, 1944**

DEAN HINRICHS PASSES

LIEUTENANT Colonel Frederic W. Hinrichs, Jr., dean of upper classmen at the California Institute of Technology, passed away February 16, at a Pasadena hospital after a brief illness. Colonel Hinrichs was born in Brooklyn, New York, November 3, 1878. He received the Bachelor of Arts degree from Columbia University as of the class of 1899. In 1898 he was appointed to the United States Military Academy at West Point, and upon his graduation in 1902 was commissioned a second lieutenant of artillery. He later transferred to the ordnance branch of the Army, in which service he remained until his retirement as a captain in 1910.



FREDERIC W. HINRICHS, JR.

From 1910 to 1917 he held the position of associate professor of applied mechanics at the University of Rochester. Upon the entrance of the United States into the last World War, in 1917, he was recalled to active duty in the Army and served until his final retirement in 1919, with the rank of lieutenant colonel.

In 1920 he joined the staff of the California Institute as professor of applied mechanics, and in 1923 was appointed dean of upper classmen, holding both of these positions at the time of his death.

Colonel Hinrichs was a member of the Association of Graduates of the U. S. Military Academy, the Army Ordnance Association, Phi Delta Theta fraternity, the American Legion, the Sons of the American Revolution, and, in Pasadena, the Annandale Golf Club, the Pasadena Town Meeting, the Twilight Club, the Athenaeum, and the Board of the Neighborhood Church.

He is survived by his wife, Marie Honeycutt Hinrichs, his son, Colonel John H. Hinrichs, and by five grandsons, John H., Jr., and Robert, sons of Colonel John H. Hinrichs; and Frederic W., IV, Leslie Witherspoon, and Malcolm Speer, sons of the late Lieutenant Frederic W. Hinrichs, III, U.S.N.R.

The Engineer in the Labor Picture

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organization of skilled trades but made little advance in the semi-skilled and unskilled classifications. The industrial type of labor organization, on the other hand, has secured the bulk of its membership from the un-

skilled and semi-skilled classes and has tended to raise minimum wages, often with no increase in wages for the skilled group. This results in a narrowing of the wage differentials and fails to benefit the skilled workers who have more bargaining power than the semi-skilled and unskilled groups.

It is of special interest to engineers, and to those engineers who are professional employees rather than executive or administrative employees, that the American Society of Civil Engineers has established committees on employment conditions which can become *bona fide* collective bargaining agencies.**

The eventual character of these committees, like the character of any other group of individuals, will depend largely upon the men who join. In addition, the character of the group will be affected by the attitude of management toward it. If the activities of this group are opposed as intensively as organizations of other employees have been fought in some cases, it is likely that the employees will quickly learn how to fight back. It has been observed that unions reflect the managements with whom they deal.

** See editorial by Professor Franklin Thomas, page 3 of this issue, *Engineering and Science Monthly*.

WINS CREDIT FOR ROCKET GUNS

FROM an advanced Allied headquarters in New Guinea came credit for the Californita Institute of Technology in the disclosure that the new secret weapons that blasted invasion paths of Americans in New Britain were "multi-barreled rocket guns."

"Consisting of rocket tubes mounted in banks on 'ducks'—amphibious trucks—and other small craft, their blazing barrages paved the way for successful landings on Arawe and Cape Gloucester in western New Britain," wrote Ralph H. Teatsorth, United Press correspondent.

The newspaper story went on to say that during experiments in 1942 at the California Institute of Technology the idea was conceived of mounting rocket tubes on "ducks" for use in landing operations.

War Correspondent Teatsorth stated that he witnessed the first use of rockets in an amphibious landing when he rode into Arawe Harbor December 15 on a "duck." Two hundred and forty rockets were fired in four minutes, blasting every square foot of landing beaches. There was a great swish and burst of flame as they were fired, but it was not hard on the ears like a naval barrage. Lieutenant W. Donald Beaver who commanded the "duck" said that they were going to prove that the rocket is a great weapon.

BASKETBALL

By HAROLD Z. MUSSELMAN*

AFTER a mid-season slump, the Caltech basketball team rallied to win five of the last six games, and finished the season with a record of seven victories and eight defeats.

Playing a schedule of 15 games with the strongest teams in southern California, the summary is more impressive than it may appear at first glance. The Beavers trounced Redlands twice, split even with U.S.C., U.C.L.A., Occidental, Pepperdine and Camp Santa Anita, dropped two to Los Alamitos Naval Air Base and bowed to March Field Army Air team in the single game played them. Even though the Southern California Conference has been suspended for the duration, the engineers, nevertheless, claim the unofficial Conference championship in winning three out of four games with Conference opponents.

*Acting director of physical education.

The major teams in southern California were very evenly matched this year, and in all Caltech games, the final scores were close, with the victory going to the team that was "hot." In only three games were there more than 10 points between Tech and the opponents, while two games were won by two points.

Coach Carl Shy produced the finest basketball team in the history of the school. All the members of the squad were fine floor men, good ball handlers and excellent shots. Co-Captain Dean Chapman, while a marked man in every contest, retained his high scoring laurels with an average of 15 points per game. But for the first time other men helped carry the scoring load, for diminutive Hugh West averaged 11 points and Co-Captain Paul Nieto seven.

Letters were awarded to 10 men—Co-Captain Dean Chapman and Hal Ball centers; Hugh West, Stuart Bates, Willard Smith and Bernard Wagner forwards; and Co-Captain Paul Nieto, Jerry Lamb, Ross Dana and Jack Cardall guards. All except Chapman are V-12 men. Chapman and Smith graduated in February, while Lamb and Dana will have graduated before another basketball season rolls around.

The results of the games are:

Cal Tech	49	Camp Santa Anita	34
Los Alamitos	62	Cal Tech	56
Cal Tech	43	USC	35
UCLA	58	Cal Tech	41
Camp Santa Anita	51	Cal Tech	41
Occidental	66	Cal Tech	47
Los Alamitos	65	Cal Tech	58
USC	41	Cal Tech	36
Pepperdine	48	Cal Tech	47
Cal Tech	55	Redlands	50
Cal Tech	38	UCLA	36
March Field	66	Cal Tech	56
Cal Tech	48	Occidental	40
Cal Tech	41	Redlands	39
Cal Tech	50	Pepperdine	40

INDUSTRIAL RELATIONS SUPERVISOR

Lee W. Ralston, '27, former supervisor of trade and industrial teacher training for the California State Department of Education, has been named supervisor of industrial relations for the manufacturing and repair department, Westinghouse Electric and Manufacturing Company. In his new post, Mr. Ralston will be responsible for company-



LEE W. RALSTON

employee relations at the headquarters at Emeryville, and also the branches located at Los Angeles, Portland, Seattle and Salt Lake.

After receiving his B.S. degree in mechanical engineering from the California Institute of Technology, Mr. Ralston took graduate courses in vocational education at the University of California at Los Angeles and at Berkeley. In 1927 he joined the Standard Oil Company of California, leaving in 1937 to become dean of Coalinga Junior College. He joined the California State Department of Education in 1941, serving there until he joined Westinghouse.

CAMPUS FIRE DEPARTMENT

The Caltech campus is now equipped with a fire station which was originally established as a civilian defense measure, but which is now to become a permanent feature of the grounds. The fire house, which was recently constructed, houses two fire trucks and an inhalator apparatus. One of the trucks, donated by the Pasadena Fire Department, pumps 750 gallons of water per minute; the other truck, which is the property of the Office of Civilian Defense, pumps 500 gallons of water per minute.

The fire crew, under the leadership of Ray Kingan, has been designated by the Chief of the Pasadena Fire Department as one of the most efficient in the city. There are 60 V-12 men and 16 graduate students in the crew and they hold weekly fire drills. Each man is assigned definite duties, and many of them have received extensive training in fire fighting and inhalator operation from the City Fire Department. Each man is equipped with a gas mask.

There are occasional city-wide drills in which the campus fire department is called upon to go to various parts of the city. There has been no occasion as yet for the crew to put out a fire on the campus, but in that event it should be brought under immediate control with the excellent equipment and an efficient crew available.

Engineers for the American Service Forces

(Continued from Page 8)

ter, Private Johnson and brother soldiers from many walks of life and every section of the nation are metamorphosed from civilian individualists to engineer soldiers, members of a military team. If all goes well, each should emerge from his tour of military duty a better man physically and professionally, strengthened by outdoor life and exercise, fortified by new construction experience and the ability to work smoothly as a member of a unit. Many will be better equipped for the pursuit of peacetime occupations after the war than before.

The Corps of Engineers and the Army Service Forces have benefited too, by enlisting the strength, knowledge, and support of a technical American, who can say, with pride, "We engineers were in it up to our ears," as evidenced by favorable reports from former E.U.T.C. units now well distributed throughout the world.

YEARBOOK ANNOUNCEMENT

Due to wartime conditions the *Big T* will not be published this year. However, a 48-page booklet will be printed which should be of interest to all alumni. It will feature pictures of the V-12 activities on the campus, the usual student body pictures, and the graduation ceremony. Anyone interested in obtaining a copy of this yearbook may do so by sending one dollar to the Yearbook Editor in care of the Institute.

ALUMNI SEMINAR

The date of the 1944 Seminar is Sunday, April 16. Due to travel difficulties the Seminar Board decided to hold the event for one day only with a program similar to the 1943 Seminar.

Four interesting lectures are being planned. Since the lecture rooms can accommodate only 200 persons, visitors may not be invited this year. Lunch will be served at the Athenaeum. Save the date, and plan to be there.

CALTECH MEN IN SERVICE

The following list is known to be incomplete and inaccurate. Please send corrections immediately to the Alumni Office, 1201 East California Street, Pasadena 4.

Name	Class	Rank	Service	Location
Ackerman, J. B.	'38	Major	U.S.A.	Washington, D. C.
Albach, W. H.	'37	Lt.	U.S.N.	*
Altee, W. H.	'29	Major	U.S.A.	N. Carolina
Alford, J. I.	'42	Lt.	U.S.N.R.	San Diego
Allen, P. H., Jr.	'42	Ens.	U.S.N.R.	*
Allyne, A. B.	'26	Major	U.S.A.	Dallas
Altmaier, R. D.	'42	Ens.	U.S.N.R.	Washington, D. C.
Altman, W. W.	'27	Lt. Cmdr.	U.S.N.R.	Livermore
Anderson, D. W.	'32	*	U.S.A.	*
Anderson, M. M.	'31	*	U.S.N.R.	*
Andrews, R. A.	'42	*	U.S.A.	Glendale
Antonenko, B. P.	'39	*	U.S.A.	Illinois
Arnold, D. R.	'43	Ens.	U.S.N.R.	Washington, D. C.
Arnold, J. K.	'41	Capt.	U.S.A.	Hawaii
Ashley, C. L.	'26	Lt.	U.S.N.R.	*
Ashworth, T., Jr.	'41	*	U.S.N.	Killed, Navy plane crash 10/41
Atherton, T. L.	'25	1st Lt.	U.S.M.C.	San Diego
Atkins, E. R., Jr.	'43	*	U.S.N.R.	*
Atkinson, T. G.	'42	Ens.	U.S.N.R.	Virginia
Aultman, W. W.	'27	Lt.	*	San Francisco
Baird, R. C.	'40	*	U.S.A.	*
Barnes, D. P.	'30	Lt. Col.	U.S.A.	Iowa
Barnes, O. H.	'26	*	U.S.A.	Overseas
Barnes, S.	'36	1st Lt.	U.S.A.	Washington, D. C.
Earle, E. R., Jr.	'42	Ens.	U.S.N.R.	*
Bashor, R. H.	'43	*	U.S.N.R.	Overseas
Baskin, A. C.	'37	Lt.	U.S.N.	*
Bassett, J. V.	'41	*	U.S.A.	*
Bauer, F. K.	'42	*	U.S.A.	Santa Anita
Beakley, W. M.	'35	Lt.	U.S.A.	*
Beardsley, G. F.	'39	*	U.S.N.R.	*
Beckstead, M. W.	'43	*	U.S.N.R.	*
Benioff, B.	'22	*	U.S.A.	*
Bennett, E. P.	'38	*	U.S.A.	*
Bennett, R. L.	'43	*	U.S.A.	*
Benton, R. S.	'37	Ens.	U.S.N.R.	New York City
Bergren, W. R.	'32	1st Lt.	U.S.A.	Georgia
Bernstein, T. I.	ex-'33	*	U.S.A.	California
Berry, F. A., Jr.	'37	Lt.	U.S.N.	*
Berry, W. L.	'29	*	U.S.A.	*
Best, C. W.	'36	*	U.S.A.	Utah
Bewley, J. W.	'43	*	U.S.N.R.	*
Biglow, J. O.	'40	Lt.	U.S.N.	*
Billman, G. W.	'41	Lt.	U.S.N.R.	*
Blayney, J. A.	'43	*	U.S.A.	North Carolina
Blue, J. H.	'37	Capt.	U.S.M.C.	Overseas
Blumenthal, W. D.	'42	*	U.S.A.	*
Bolen, T. M.	'37	Lt.	U.S.A.	Salinas
Bolster, C. M.	'36	Cmdr.	U.S.N.	Washington, D. C.
Bonell, J. A.	'38	1st Lt.	U.S.A.	Ft. Lewis
Boothe, R. H.	'36	Lt. (j.g.)	U.S.N.	California
Bower, M. M.	'27	Major	U.S.A.	Washington, D. C.
Boyd, J.	'27	Lt. Col.	U.S.A.	Washington, D. C.
Bowler, G. E.	'32	Lt.	U.S.N.	*
Bracken, G. R.	'43	*	U.S.N.R.	*
Bragg, R. M.	'43	*	U.S.A.	Florida
Brice, R. T.	'37	Lt. Col.	U.S.A.	Overseas
Bridgland, E. P.	'43	Fit. Lt.	R.C.A.F.	Canada
Brose, F. M.	'40	*	U.S.A.	Arizona
Brown, E. L.	'43	*	U.S.A.	*
Brown, G. H., Jr.	'43	*	U.S.N.R.	*
Brown, W. A.	'41	*	U.S.A.	*
Brown, W. H.	'43	*	U.S.N.R.	*
Bruce, S. C.	'41	*	U.S.A.	Texas
Brunner, M.	'25	Lt. Col.	U.S.A.	Virginia
Buchanan, J. W.	'43	*	U.S.A.	*
Burleigh, R.	'40	*	U.S.N.	*
Bungay, R. H.	'30	Capt.	U.S.A.	*
Bunker, E. R., Jr.	'43	*	U.S.A.	*
Caldwell, N. H.	'41	*	U.S.A.	*
Callaway, W. F.	'42	Lt. (j.g.)	U.S.N.R.	Overseas
Capra, F. R.	'18	Col.	U.S.A.	Overseas
Carberry, D. E.	'30	Lt.	U.S.N.	San Francisco
Carlmark, C. W.	'41	*	U.S.A.	*
Campbell, R. S.	'37	Lt. (j.g.)	U.S.N.	Overseas
Campbell, D. C.	'41	Lt.	U.S.N.R.	Maryland
Carlton, J.	'39	Lt.	U.S.A.	Texas
Carr, E. A.	'42	Lt.	U.S.N.R.	*
Carrick, T. H.	'34	Capt.	U.S.A.	Montana
Carstarphen, C. F.	'39	Lt.	U.S.N.R.	Overseas