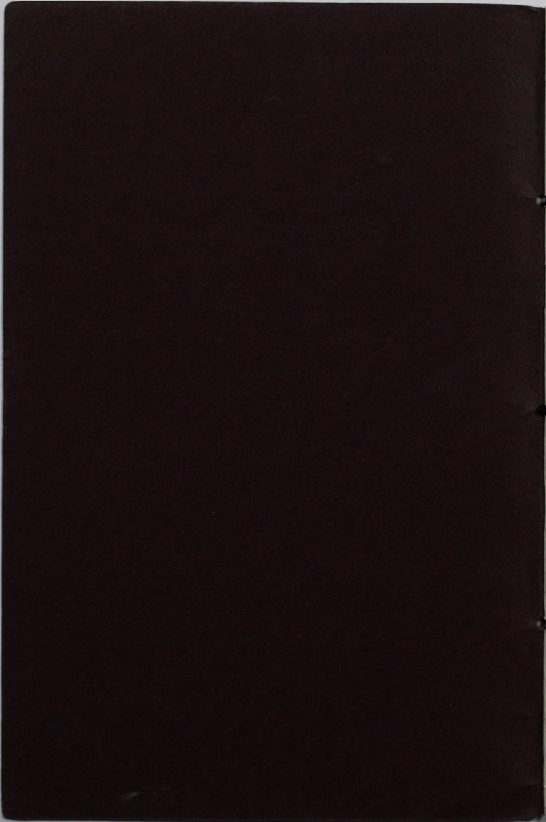


THETA TAU
FRATERNITY



"IN MEMORIAM"



THESE HAVE JOURNEYED JUST BEYOND THE SUNSET

(J. P. McEvoy, Chicago Tribune)

"There is no Death! The leaves that fade
And softly drift to silent doom
Are not to cold oblivion laid
In some forsaken, hopeless tomb—
They are not dead; 'neath snow and rain
They live, and with the Spring's first breath
All glorified they'll come again—
There is no Death!

There is no Death! The boys who pass,
Like falling stars in glory's glow,
Will live again when dewy grass
And poppies on those craters grow;
When all the world is fair and free,
Because they gave their soul's own breath
They'll live in millions yet to be—
There is no Death!"

THE GEAR

EDWARD PORTER ALEXANDER, 3rd

Eta Chapter

First Lieut., Engineers.

Killed in France.

Brother Alexander was a graduate of Massachusetts Institute of Technology, class 1914, and held an S. B. degree in civil engineering. After graduation he was employed by the Alexander and Farrell Co., of Duluth, Minn. He was with them when war broke out.

Brother Alexander was one of the first to enlist in the service of his country.

It is with a great deal of regret that we find it impossible to contribute more details of his noble part in the war. Theta Tau mourns his loss.

THE GEAR

GEORGE ALBERT BEACH

Eta Chapter

First Lieut., Air Service, U. S. A.

Killed January 20, 1918, Foggia, Italy. In aerial collision.

Born at Fort Collins, Col., 1893. He was educated in the public schools and later attended Colorado State College. In 1914 he graduated from Massachusetts Institute of Technology, having made one of the highest records in the history of the institution.

Brother Beach was in the first squadron at Massachusetts Institute of Technology aviation school. After four weeks of training he sailed for France to continue his course in the flying school. From France he was sent to Italy and was awaiting his commission, after having completed the last brevet of the Italian system.

Wire Sent by C. O. to Mr. Tom Beach
(Father of Brother Beach)

Foggia, Italy, Jan. 20, 1918.

Mr. Tom Beach,
Fort Collins, Col.

Your son of the Aviation Corps, Cadet George A. Beach, American Air Service, killed instantly January 20, 1918, in aerial collision at this station.

Condition requires burial here.

A great loss to his country, and I extend my deepest sympathy. Details by letter follow.

MAJOR RYAN,
Commanding

Letter from Brother John Park

Italy, Feb. 27, 1918.

Dear Brother Schrader:

I am very sorry to tell you of the death of Brother George A. Beach of Massachusetts Institute of Technology.

Brother Beach was a graduate M. E. and one of the finest men we had with us. He was a wonderful flyer and a first lieutenant in the U. S. Air Service.

Lieut. Beach was killed on Jan. 20, 1918, in a collision in the air.

Fraternally,
JOHN PARK,
Lieut., A. S. S. C.

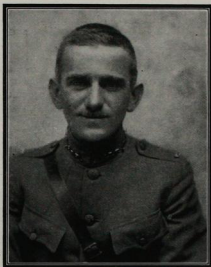
THE GEAR

EMMONS BLAINE

Eta Chapter

Died Oct. 9, 1918.

Graduated from Harvard, class 1914, with an S. B. degree, was also a member of the class of 1916, Massachusetts Institute of Technology.



MARTIN FRADY BOWLES

Iota Chapter

Lieutenant 1st Battalion, 355th Infantry, 89th Division.
Killed in action September 3, 1918.

Martin F. Bowles, born April 25, 1893, at Bonne Terre, Mo., and graduated from the Neodesha, (Kan.) High school, had finished all but one month of a four years' course in Metallurgical Engineering at the Missouri School of Mines, Rolla, Mo., when on May 12, 1917, he entered the first officers' training camp at Fort Riley, Kan. At the close of the training period he was commissioned a second lieutenant and assigned to Company B, 355th Infantry, 89th Division, and stationed at Camp Funston. He left this camp with his company on May 21, 1918, and sailed from an eastern port on June 4th, arriving in England on June 15, 1918. After a short stay at a rest camp there, he proceeded to France. On August 14th he wrote that he was with battalion headquarters as scout officer, 1st Battalion, 355th Infantry, 89th Division. The last letter received from him, dated Sept. 2nd, was written in his dugout and contained the following: "Here it is 2:45 a. m. Sitting in a dugout waiting for some patrols to report back in, I am writing this by the light of two candles." He was

THE GEAR

killed in action on the night of Sept. 3, 1918. The letter of notification received from Brigadier General Thomas G. Hanson said: "It is my painful duty to communicate to you the fact of the loss of your son, Martin F. Bowles. About 11 o'clock on the night of Sept. 3, Lieut. Bowles, with Lieut. Joseph B. Keckler, 355th Infantry, in command of a reconnoitering patrol of our troops, encountered the enemy. In the ensuing engagement your son received a rifle bullet through the heart. His death was instantaneous and painless. His remains were interred with full military honors on the 4th of September." He was promoted to first lieutenant, but his commission did not reach him before his death. He was president of the Missouri Mining Association, Missouri School of Mines, for the year 1916-1917.

Brother Bowles is buried near Madres, France.

In the death of Brother Bowles Iota lost a true and faithful brother. Theta Tau lost a faithful brother and the profession a true and valuable worker.

THE GEAR

WILLIAM WALLACE COLQUHOUN

Theta Chapter

Captain 11th Highland Light Infantry.

Born at San Francisco, Cal., on the 13th of October, 1890. After leaving Glenalmond he went to Columbia University, where he graduated in June, 1914, having finished his work in the mining department. During his holiday in England war was declared against Germany. He at once offered his sword to the government and was one of the first hundred thousand who did so. He received his commission as second lieutenant in September, 1914, was promoted by rapid stages to the rank of company commander, and that was the rank he held when he fell in the battle of Loos on the 25th of September, 1915.

Brother Colquhoun was a charter member of Theta Chapter of Theta Tau. Having just graduated, he did not hold a technical position, but was with his father, James Colquhoun, former president of the Arizona Copper Co., on many of his technical trips and tours of inspection. Not only does Theta Tau mourn the loss of so valuable a brother, but it is to be regretted that young men of his caliber and type who had spent their entire life in study for the advancement of mankind and nation must needs be sacrificed to stem the greed of that Hunish desire for power.

In Memoriam

Extract from The Glenalmond Chronicle, April, 1919.

William Wallace Colquhoun, Captain 11th Highland Light Infantry, Killed in action, September 25th, 1915 (previous reported "missing"). Aged 25. Glenalmond, 1904-1910:

W. W. Colquhoun was the elder of two brothers, sons of Mr. and Mrs. J. Colquhoun, 31 Ferndale, Tunbridge Wells, who were at College between the years 1904 and 1912. He was made a prefect in Michaelmas term, 1908, and captain of school in the following Michaelmas term. He won the engineering prize in 1908, the engineering prize and the prize for Science A in 1909, and the Engineering Drawing Prize in 1910. He was a member of the football fifteens of the seasons 1907-08, 1908-09 and 1909-10. He was cadet officer of the corps, passing for Certificate "A" in 1909, was a member of the Shooting VIII of 1909 and 1910, and won the Bombay cup for the best score at Bisley in the former year.



W. W. COLQUHOUN

THE GEAR

He left behind him at school a memory of a thoroughly "wholesome" boy, upright and honest to the core, true and just in all his dealing; an influence for good that left a mark on all it touched; strenuous and steady in endeavour, sure and sound in achievement.

After leaving college he entered at Columbia University, U. S. A., and in 1913 captained the university football team. He graduated in metallurgical engineering in 1914 and was elected a member of the American Institute of Engineering.

On the outbreak of war he obtained a commission in the Highland Light Infantry in November, 1914. He fell in an attack on a position between Auchy and the Hohenzollern Redoubt, well in advance of his men. As in a subsequent counter attack, the enemy occupied the ground, it was hoped that Captain Colquhoun had been removed, wounded, by their Red Cross men, but, no further news having been received of him, it is now presumed that he was killed in action. Sir James Hume writing of him says: "He was out in front of his company, gallantly leading his men. Of late years I have met no young man for whom I had a more sincere liking. He had a wonderful influence over his men."

His colonel writes: "His conduct was beyond all praise, and his courage and devotion to duty cannot be expressed. He is the greatest loss to his battalion and myself." That he was keen on soldiering, as he was on all he set his hand to do, is evident from his last letter, written on September 23rd, 1915 (during the battle):

"We are up in the line again and for a couple of days the bombardment has been going on. The noise is tremendous. The whole earth shakes and there is dust everywhere. It is quite exciting, and I am enjoying it. I am in perfect health, and I have nothing to complain of." That was written under the trench warfare conditions of 1915.

THE GEAR

EDWARD J. DITTUS

Gamma Chapter

Brother Edward J. Dittus graduated in the class of 1911, mining department, having received the degree of E. Met. In 1913 he was instructor in metallurgy, Colorado School of Mines, Golden, Col. Later on in the same year he was made assistant manager of Colorado School of Mines, testing plant.

Through later reports, Brother Dittus, in 1916, was in charge of the department of testing and research at the Colorado School of Mines.

In Brother Dittus the fraternity has lost a man of noble worth in the engineering profession.

THE GEAR

ROBERT LEE DOWNING

Beta Chapter

THE GEAR

WILLIAM EASTMAN, Jr.

Eta Chapter

Brother Eastman was appointed instructor in United States Army School of Military Aeronautics at Cambridge, Mass. He had joined the Massachusetts Institute of Technology Engineers Corps in 1915.

It was while he was instructor in the ground school at M. I. T. that Brother Eastman was injured by a propeller accident, November 2, 1917. Because of the seriousness of the injuries received he died on November 8, 1917.

Brother Eastman was on the committee which planned the Tech. Club in Paris, which became part of the American University Union, Europe.

Because he was among the first to enlist in the service he did not complete his course in Mechanical Engineering, class 1918.

THE GEAR

WALTER GEORGE FARNLACHER

Epsilon Chapter

First Lieutenant, Infantry, 363rd Regiment.

Killed in service.

THE GEAR

EUGENE ERASM GRYGLA

Alpha Chapter

Born, 1886, at Minneapolis, Minn., where he graduated from the public schools and spent three years in the University of Minnesota. He was a member of the

class of 1908, and had taken up the study of mining.

Brother Grygla was one of the first members of the Alpha Chapter of Theta Tau. He held the office of scribe during the years 1906-1907.

After leaving school he went west to engage in mining. With the exception of one stay in Leamington, Utah, the rest of his time was spent in Nevada.

It was in 1908 that he was married to Miss Essie E. Carson at Nephi, Utah.

Before coming to Tonopah he and his family were located at Round Mountain, Nevada, for three years. At the time of the divide excitement he was



one of the first to move to Tonopah. Having applied himself to his work from the time of his arrival he was completing preliminary work on a leased block of ground on the Montana, from which he expected to clear a good amount.

Brother Grygla was just getting located here when the entire family was taken sick with influenza which resulted in the deaths of the son Vernon, February 20, 1920, and the father, March 3, 1920.

Due to the heavy snows in Tonopah and the surrounding country where the whole community was snowed in for days at a time, few knew of Brother Grygla's illness in time. Brother Schrader wrote at that time that they were so snowed in that not even the truck could get out to make a trip to town. He says, "I knew 'Gene' well and the fraternity loses a very loyal member."

All the fraternity mourns his loss and extends its deepest sympathy to Mrs. Grygla.

THE GEAR

GILMAN CASE HARDING

1891-1918

WHEREAS, It has been the will of God to take from us our beloved Brother Gilman Case Harding; and

WHEREAS, The Theta Tau Fraternity, in the death of Brother Harding has lost a true and faithful member, one who has done honor to his country, to his profession and to our fraternity; and

WHEREAS, We, the members of Zeta Chapter, do deeply mourn his loss; therefore, be it

RESOLVED, That the members of Zeta Chapter of Theta Tau extend their deepest and most sincere sympathy to his bereaved family; and be it further

RESOLVED, That a copy of these resolutions be sent to the family of Brother Harding; that they be published in The Gear of Theta Tau, and that they be recorded in the minutes of Zeta Chapter.

GILMAN CASE HARDING of Zeta Chapter.

Brother Harding was one of the first members of Zeta Chapter, and graduated from Kansas University in 1915. After leaving school he was actively engaged in his profession until he entered the army. Brother Harding died of pneumonia in training camp October 11, 1918. His home was in Leavenworth, Kan.

THE GEAR

WENDELL ZEANIS HAWTHORNE

Kappa Chapter

Pledge

News of the death of Wendell Hawthorne '21 on December 14 came as a shock to friends returning from the Christmas holidays last Monday. Death occurred at the university isolation hospital after ten weeks' illness of typhoid pneumonia.

For several days preceding his death Hawthorne's condition seemed to be improved, and physicians held out hope for his recovery, but on December 13 a change for the worse came suddenly and death resulted shortly after. Members of his family were present at his bedside.

Funeral services were held in the First Methodist Church of Waukegan, home of the deceased. O. J. Fleming, F. W. Voght, P. E. Langdon and P. L. Cailson, students in the university, were present at the services. Mr. Voght spoke in behalf of the student body.

During the time he was a student in the university Hawthorne was identified with many campus activities, and by his rare personality won for himself a host of friends.

Wendell Zeanis Hawthorne, 1921, entered the Great Beyond on December 14, 1919. In our brief acquaintanceship with him we found him to be a man of the highest Christian character. His actions showed that wonderful essence of Christian brotherhood that characterized him as a man and friend to hold. Our loss is inestimable and our sympathy goes out to his family and to all his closer friends.

THE GEAR



BERNHARDT E. HEINE

Beta Chapter

Lieutenant, Aviation Service, U. S. A.

Born at Mount Clemens, Mich., in 1895. After attending the local high school he entered the Michigan College of Mines, and graduated with the degree of B. S., E. M. While still a student he became a junior member of the institute.

Brother Heine had been in the army since 1916, having served with the troops at the Mexican border. He had been in the aviation section since August, 1917.

Lieutenant Bernhardt E. Heine died as the result of a fall in an aeroplane at Fort Sill., Okla., on August 10, 1918. The accident occurred on August 2 when the machine in which he was flying with Lieutenant Carsons fell from a height of 1,500 feet; Lieutenant Carsons was instantly killed, but Lieutenant Heine died from his injuries a week later.

THE GEAR

A. STANLEY HILL

Alpha Chapter

He was born in Minneapolis, Minn., in 1888 and received his early education in the high schools. In 1911 he graduated from the School of Mining, University of Minnesota, with an E. M. degree.

He was captain of the university track team in 1911 and was the holder of two Minnesota records. His feat of setting three records in one day will long be remembered by university track men. Hill established a mark of 94.5 seconds in the 100-yard dash, ran the 220 in 22.1.5 seconds, and in the same meet tore off 440 in 50.1.5 seconds.

After graduation he went to Magpie Mine, Ontario, Canada. He was there only a short time and then went to the Coeur d' Alene district, Idaho. Here he was assayer and chemist for the Hecla Mining Co., Gem, Idaho, and later was millman, finally taking charge of the flotation department, which position he held at the time of his death.

Brother Hill died at the Wallace (Idaho) Hospital on February 25, 1918, from injuries received in the Black Cloud mill. Caught in the shafting, one arm was torn off, a leg was broken and internal injuries were inflicted from which he never rallied.

Brother Hill was regarded as one of the best mill men in the district, where his contributions to the science of the industry were placed freely at the disposal of others.

His discussion of the paper on "Handsorting of Mill-feed," which is a description of mill practice at the Hecla Mill, was not yet published when he died.

Brother M. F. Quinn writes of him, "Stan" was doing very well—his flotation work was as good if not the leader of many in the district, and he had won a large circle of friends in the district."

THE GEAR

ELTING WADE HOUGHTALING

Alpha Chapter

Graduated from the University of Minnesota in 1916 in the electrical department, having received an E. E. degree.

The last position he held was switchboard operator at the Montana Power Co., Canyon Ferry, Mont.

On May 24 his father and mother, who live in Fairmont, Minn., were notified by telegram of their son's illness. Upon their arrival at Camp Lewis, Wash., they found him considerably better. Shortly after his condition changed again, but this time for the worse, and he died on June 5, 1918.

THE GEAR

JULIEN MATHIEU, Jr.

Epsilon Chapter

A member of the class of 1919, the University of California, Berkeley, Cal., and enrolled in the petroleum engineering department.

Brother Mathieu died in service.

THE GEAR

JOHN JOSEPH O'MALLEY

Gamma Chapter

Lieutenant, Aviation, U. S. A.

Gamma Chapter suffers the loss of Brother John J. O'Malley, a lieutenant in the Aviation Corps. He fell in a tail-spin at Ellington Field, Houston, Tex., during May, 1918. "Joe was one of the most popular men in school; we hoped to see him back with us when the war was over."

Brother O'Malley was a member of the class of 1918 in the mining engineering department of the Colorado School of Mines.

THE GEAR

GEORGE S. PATTERSON

Theta Chapter

Died April 14, 1920.

George Schroter Patterson was accidentally killed April 14, 1920, at the zinc mine of the Northern Ore Co. at Edwards, N. Y. While taking measurements in the 900-foot shaft the cage was lowered, and he was struck by the counter weight which balances the cage, carried 25 feet up the shaft and crushed against the timber work and pulleys forming the head frame.

Mr. Patterson was born in Denver, Col., Oct. 9, 1892, graduated from Denver High School and from Columbia School of Mines, New York City, class of 1914, receiving the degree of Engineer of Mines. He was for two years at the Franklin Furnace mines of the New Jersey Zinc Co. as surveyor, shift boss, etc. In 1916, he was appointed mine superintendent for the Northern Ore Co., and had been promoted to general manager of the same company about two months previous to his death.

THE GEAR

ROBERT ASHMAN PERRY

Kappa Chapter

Lieutenant, Naval Aviation.

Born May 4, 1892, at Helena, Mont.

Robert Perry Ex '18 died in Los Angeles, Cal., Jan. 2, 1920, following injuries received when his motorcycle skidded on the Ascot Speedway that afternoon. Perry was riding in the qualification trials for the 100-mile race held there Saturday, and was circling the track at a speed estimated to be in excess of sixty-five miles an hour when his machine skidded. His skull was fractured.

Perry withdrew from the university in 1918, his senior year, to enter the service, enlisting in naval aviation. He received his commission as flying officer and was stationed in Florida until the armistice was signed. Perry planned to return to the university in February to take the needed semesters work for his degree in mechanical engineering.

He was connected with the Excelsior Motorcycle Company, and was considered a valuable inside man, but kept at the racing in order to increase his funds, so that he might return for his second semesters work. The race in which he met his death was to have been the last one in which he would participate before returning to the university.

THE GEAR

GEORGE OSCAR RANDOLPH

Beta Chapter

Graduated from the Michigan College of Mines, Houghton, Mich., in 1907 with the degrees of B. S., E. M. From the time of graduation he has been associated with the Porcupine Tisdale Mining Co. at Porcupine, Ontario, Canada. When last heard from Brother Randolph was general manager for the mining company.

THE GEAR

LOUIS SCHAFER

Gamma Chapter

Died October 27, 1918, at Silverton, Col., of influenza.

Graduated from the Colorado School of Mines in 1909, having received the degree of E. M. In 1911 he was leasing at Hesperus, Col. From there he went to Silverton, Col., as mining engineer. In 1916 he was manager of the Colorado Metal Co. at Silverton.

THE GEAR

JOHN PAUL SLADE

Zeta Chapter

1893-1918

Second Lieutenant, Field Artillery.

WHEREAS, The Almighty, who knoweth and doeth all things well, has seen fit to take from our midst our beloved Brother John Paul Slade; and

WHEREAS, The Theta Tau Fraternity, in the death of Brother Slade has lost a faithful and conscientious brother, loved and esteemed by all who knew him; and

WHEREAS, We, the members of Zeta Chapter, do deeply mourn his loss; therefore, be it

RESOLVED, That the members of Zeta Chapter of Theta Tau Fraternity extend their deepest and most sincere sympathy to his bereaved family; and be it further

RESOLVED, That a copy of these resolutions be sent to the family of Brother Slade; that they be published in The Gear of Theta Tau; and that they be recorded in the minutes of Zeta Chapter.

JOHN PAUL SLADE of Zeta Chapter.

Brother Slade was one of the many men who left school to enter the service of his country. He was initiated into Zeta Chapter in 1916, and proved himself a very active member, as well as a popular student. Brother Slade responded to the first call and received a commission as second lieutenant, Field Artillery, at the first officers' training camp at Fort Riley, Kan. He was immediately assigned to overseas duty and saw much action during the summer of 1918. Brother Slade was killed in action on the Vesle river, September 17, 1918. His home was in Clay Center, Kan.

THE GEAR

BERT R. SMITH

Theta Chapter

Died in service June 18, 1918.

Graduated from Columbia University in the class of 1917 and received an E. M. degree in the mining department. He was twenty-four years old when he died of appendicitis at the Madison Barracks Training Camp Hospital, after an illness of several days.

The death was the first in the camp, and it depressed both officers and men with whom the candidate had proved very popular. He had been married just before joining the camp.

Mr. Smith, whose home was at 1053 East Thirteenth street, Brooklyn, had specialized in the field artillery arm. With the camp reorganization he was ordered to change from Company 1 to Battery 11. He was in the hospital during the reorganization, however, and though his name is on the company roster, he never had the opportunity of taking his new place.

Full military honors were accorded him when the body was removed to a train at New York Central Station. The parents, Mr. and Mrs. Smith, and the young widow followed the flag-draped coffin. Next in line came Mr. Smith's company, augmented by a number of others of the camp personnel. At the train a salute was fired and taps were blown. The camp flag was placed at half-mast.

Private funeral services were conducted in Brooklyn late the next afternoon.

THE GEAR



LEROY A. SWAN

Eta Chapter

Lieutenant, Aviation, U. S. A.

Graduated from Massachusetts Institute of Technology in the class of 1917 and received his B. S. degree.

Lieutenant Leroy Swan of Norwich, Conn., was instantly killed at the Wilbur Wright aviation field on the afternoon of June 19, 1918, when the airplane collapsed in mid-air. At an altitude of about 10,000 feet the pilot lost control of his machine after going into a swift nose dive. Lieutenant Frank S. Patterson of Dayton, O., was flying with Lieutenant Swan.

THE GEAR

PERCY W. THOMPSON

Epsilon Chapter

Born in Ontario, Canada, October 21, 1881. He came to California at the age of 12 and attended the Los Angeles High school soon after. He then entered Throop Institute of Technology, Pasadena, Cal. He graduated from the College of Mining, University of California, in 1912, having received the B. S. degree.

After graduating he became geologist with the Standard Oil Co. of California. Later assistant superintendent of one of the leases, then superintendent and at the time of his death he was superintendent of operations, in charge of all work in Colorado, New Mexico and Washington.

Brother Thompson was married August 20, 1907, to Carolyn Grey, Pasadena, Cal. They have two children, John Stanton Thompson, age 8, and Jane Elizabeth, age 6.

On April 11, 1920, following a six weeks' illness due to complications following an attack of influenza, Brother Thompson entered the Great Beyond.

THE GEAR

HERBERT M. TICHBORNE

Theta Chapter

Lieutenant, Aviation.

Graduated from Columbia University in the class of 1917 and received an E. M. degree in mining.

Brother Tichborne was killed at March Field, California, in an airplane accident on December 23, 1919.

THE GEAR

PAUL HARRIS WILKINSON

Beta Chapter

