THE FUNERAL

By Stephen M. Foote, Colonel Coast Artillary Corps, U. S. A.
(Late Major, Third U. S. Volunteer Engineers)

The funeral ceremonies were held in Washington, D. C., and Arlington, Va., on December 8th, 1913, a raw and gloomy day. The body was brought from Baltimore on that date, transferred from the station to the church, and there at 2:30 p. m. was taken in charge by the military escort.

Although best known to the world as a civil engineer, Gaillard was a soldier by birth, education and instincts and it was therefore eminently fitting that the final disposition of his earthly remains should be through the impressive ceremony of a military funeral. The escort consisted of the Battalion of United States Engineers and Band from Washington Barracks. Services were held at St. John's Episcopal Church, the "Church of the Presidents," Sixteenth and H Streets. The chancel was filled with floral offerings from the President of the United States and Mrs. Wilson, Secretary of War and Mrs. Garrison, the Chief of Engineers, the Officers of the Engineer Corps in Washington, the Third U. S. Volunteer Engineers, the class of '84 at West Point, the Aqueduct Office (Washington), the Isthmian Canal Commission (Panama Office), the Isthmian Canal Commission (Washington Office), the Directors of the Panama Railroad, the

145
Senators from South Carolina, the Representatives from South Carolina, the Municipality of Winnsboro, S. C., besides many from personal friends.

The casket was draped in the National Flag, to which he had devoted nearly the whole of his life.

Mrs. Gaillard was attended by her son, Pierre, and other members of the family.

The President was not able to attend, but Mrs. Wilson was present in the pew immediately behind the family.

Behind the President’s pew sat the Secretary of War, Hon. Lindley M. Garrison; the Assistant Secretary of War, Hon. Henry S. Breckinridge; and the Chief of Staff, Major-General Leonard Wood. Two pews were occupied by representatives of the 3d Volunteer Engineers. Colonel Eugene J. Spencer, Captain Frank L. Averill, Lieutenants Hamilton, Barney, Baumgardner, Sergeant Grove and others were present.

Mrs. Averill was there, also, and Mrs. Jadwin. Colonel Edgar Jadwin was unfortunately on duty as a witness before the United States Court in Galveston, Texas, and could not be present. Col. Henry C. Davis, Gaillard’s brother-in-law, was on his way to the Philippines.

Two pews were reserved for the Class of 1884, Gaillard’s class at West Point. In them sat Colonels Edwin B. Babbitt, Henry D. Styer and E. F. Ladd, Maj. D’R. Cabell, Mr. Constant E. Jones, Mr. James A. Long, Mr. M. Nibben, Mr. and Mrs. Edward B. Clark, Mrs. Harry Taylor and Mrs. Stephen M. Foote. Colonel W. L. Sibert had started a few days before on his return trip to Panama.

Two pews were reserved for the South Carolina
Congressional delegation. In them sat Senator and Mrs. Benjamin R. Tillman, Senator and Mrs. Ellison D. Smith, Mrs. Finley and Mr. David E. Finley, Jr., wife and son of Representative Finley, and Representatives Wyatt Aiken, James F. Byrnes, David E. Finley, Asbury F. Lever, Jos. T. Johnson, Richard S. Whaley and J. Willard Ragsdale.

Among others in attendance were noted Lieut. Gen. John C. Bates, retired, and Brig.-Gen. John M. Wilson, retired, and many officers of the Corps of Engineers on both the active and retired list.

The pallbearers, in full dress uniform, were the following:

Col. William M. Black, Corps of Engineers;
Engineer battalion and "Taps" was sounded by Chief Musician Frank J. Weber, who was band leader of Gaillard's regiment, the 3d Engineers.

The grave is on a southern slope, near the last resting place of many another soldier who gave his life in the service of his country.

(The State, Columbia, S. C., Dec. 14, 1913)

The four companies composing the engineer battalion stationed in Washington were drawn up at "present arms" while the casket, flag draped, was borne into the church. Only two floral pieces were placed upon it with the colors—a beautiful bunch of carnations and palm leaves which went from the White House to Baltimore—the personal token of sympathy from the wife of the president to the widow of the distinguished engineer—and a crescent from the Third United States engineers. All other flowers were placed in the church—a magnificent display, filling the entire chancel.

MRS. GAILLARD TO THE THIRD U. S. VOLUNTEER ENGINEERS

Mrs. Gaillard, in a letter to the Third U. S. Volunteer Engineer Association, expressed her deep appreciation of the action of the Regiment in the hour of affliction.

Ridgeway, So. Ca.,
16 December, 1913.

E. M. Pirkey, Esq.,
Sec. 3rd U. S. V. Engrs.
My Dear Mr. Pirkey:

Will you, as Secretary, express to the 3rd Engineers my very deep and warm appreciation of their
sympathy in this time of sorrow, and my thanks for the magnificent crescent of red and white roses, the engineer colors, and the beautiful lilies sent to Baltimore, as tributes to my husband? These were placed on the casket, over the flag he served so well, and went with him to Arlington. Of all the offerings, I am sure none could have been more precious to him, could he have known. He loved his regiment, as it grew under his eyes to that wonderful efficiency finally attained, it filled his heart with pride and affection. When it ceased to exist, he felt something gone out of his life, until in the reunions he realized that though officially mustered out, they were still bound together by ties of affection and trust, ties only developed when men have been thrown together as men and have stood shoulder to shoulder. Of all his achievements, not even excepting Culebra Cut, there was none in which he felt greater pride than in the Regiment of 3rd Engineers and their wonderful record. They tell me that it was Mr. Weber, our band leader, who sounded taps over the grave. I am pleased that it was one who loved him, who sounded for him and for me, "Lights Out."

My husband was a man so modest that satisfaction of work well done was all the reward he desired, but could he have known of the spontaneous and appreciative "Well done, thou good and faithful servant," sent up by the entire country, he would have been deeply touched, and for me to feel that his sacrifice is so appreciated, must in time soften my sorrow. The country loses only the engineer, but we, his friends, lose the man, and in the emptiness he leaves behind him, and in my loneliness I shall al-
ways remember and appreciate the warm sympathy of the dear 3rd; and it will comfort and help me, for like him I loved it and was proud of it; and feeling that they know this, I am,

Most faithfully yours and theirs,

Katherine Gaillard.
THE GAILLARD MEMORIALS

ORDER DESIGNATING "CAMP GAILLARD"

War Department,
The Adjutant General’s Office,
Washington, February 6, 1915.

From: The Adjutant General of the Army.
To: The Commanding General, Eastern Department, Governors Island, New York.

Subject: Name of new post at Culebra, Canal Zone.

Referring to your indorsement of January 16, 1915, on letter dated January 15, 1915, from the commanding officer, 29th Infantry, on the above stated subject, I am directed by the Secretary of War to inform you that the new post at Culebra, Canal Zone, is designated and will, hereafter, be known as Camp Gaillard, in honor of the late Lieut.-Col. David DuB. Gaillard, Corps of Engineers.

H. P. McCain.

By command of Major General Murray:
EBEN SWIFT,
Colonel, General Staff,
Chief of Staff.

"CULEBRA" RENAMED "GAILLARD CUT"

The public sentiment in favor of renaming "Culebra" in honor of Colonel Gaillard, was voiced in various resolutions, among which may be noted the following by the Chicago Association of Commerce:

The Executive Committee of the Chicago Association of Commerce, upon the initiative of the subdivi-
sion of Engineers of the Association on July 10, 1915, by unanimous vote, adopted the following resolution:

Whereas, David DuBose Gaillard, lieutenant-colonel, Corps of Engineers, United States Army, late an Isthmian Canal Commissioner in charge of the Culebra Division, died December fifth, nineteen hundred and thirteen, from disease resulting from his long and arduous service in the construction of the Panama Canal, and

Whereas, his untimely death deprived him and his family of the public honors and material rewards which he had justly earned, therefore be it

Resolved, That the Chicago Association of Commerce concur in the recommendation of the Engineers' Subdivision of the Association that the great work of David DuBose Gaillard in the service of his country should be appropriately recognized; that Culebra Cut be henceforth called the Gaillard Cut and a monument inscribed as a memorial to the service and sacrifice of Colonel Gaillard be erected on the banks of the Gaillard Cut.

EXECUTIVE ORDER

The President issued an Executive Order renaming Culebra, as follows:

It is hereby ordered that the portion of the Panama Canal through the Continental Divide heretofore known as "Culebra Cut" shall hereafter be named "Gaillard Cut" in honor of the late Lieut.-Col. D. D. Gaillard, Corps Engr. United States Army.

As a member of the Isthmian Canal Commission
Tablet erected in Cullum Hall, West Point, N. Y.
by the Class of 1884
United States Military Academy
Unveiled June 11, 1914, on the 30th anniversary of
Colonel Gaillard’s graduation
from March 16, 1907, to December 5, 1913, Lieut.-Col. Gaillard was in charge of the work in Culebra Cut until its virtual completion, being compelled to abandon his duties in July, 1913, through an illness which culminated in his death on December 5, 1913. His period of Panama Canal Service included the years of most active construction work. He brought to the service trained ability of the highest class, untiring zeal, and unwavering devotion to duty.

I deem it a fitting recognition of Lieutenant-Colonel Gaillard’s service to the country to re-name in his honor, the scene of his life’s triumph.

(Signed) Woodrow Wilson.

The White House, 28 April, 1915.

'84 WEST POINT MEMORIAL TABLET
(From '84 Bulletin, West Point, July 1, 1914.)

The Class of 1884, United States Military Academy, at its 30th reunion at West Point in June, 1914, unveiled a memorial tablet to Colonel Gaillard.

Colonel Edwin E. Babbitt, on behalf of the Class of 1884, spoke at the unveiling as follows:

"'84":

We gather here today as a token of respect and admiration.

Nothing that I can say would add a tithe to the fame of the classmate whose name appears on the tablet before us. Davy, of himself, has written his name in everlasting letters in the minds of men. But with us, his classmates, even before this great work came to him, his loving personality inscribed his name upon our hearts.

Year by year, as our members dwindle, some one
of '84 will stand here as we are now and remember more the dear classmate than the great engineer.

It has always seemed to me that no matter how great the mind and personality, he who did not win the hearts, but only the minds of his associates, failed in a requisite of greatness.

Davy warmed to him the minds and hearts of all who knew him.

A few weeks ago Dick Richardson gathered together a number of the class in Washington where some spoke of Gaillard with sadness. Dick objected—"To few men," he said, "does great opportunity come; to Davy it appeared and he was equal to the task and passed over the divide in the fullness of victory. No greater could come to any man."

HUGUENOT MEMORIAL

The Huguenot Society of South Carolina and the Huguenot Church Aid Society have erected a tablet to the memory of Colonel Gaillard. This tablet is on the east wall of the interior of the old Huguenot Church in Charleston, S. C., to the right of the pulpit. In its immediate vicinity there are a number of tablets of distinguished Huguenots; among others—Lanier, Maury, Martha Washington and Gen. W. H. F. Lee.

GENERAL ORDERS NO. 31

(Here given in full; quoted in part on page 65 under "Official Actions.")

War Department,
Office of the Chief of Engineers,
Washington, December 9, 1913.

General Orders, No. 31.

To the Corps of Engineers is announced the sad intelligence of the death of Lieut.-Col. David DuB.
MEMORIAL TABLET

Erected by the Huguenot Church and the Huguenot Aid Society
on the east interior wall and to the right of the pulpit
in the Huguenot Church, Charleston, S. C.
Gaillard, Corps of Engineers, which occurred at Baltimore, Md., on December 5, 1913.

Colonel Gaillard was born in South Carolina September 4, 1859. He was graduated from the United States Military Academy and promoted in the Army to second lieutenant, Corps of Engineers, June 15, 1884, and passed through all the intermediate grades to that of lieutenant-colonel, which he reached April 11, 1909.

He served with the Battalion of Engineers at Willets Point, N. Y., September 3, 1884, to April 18, 1887; as assistant to the officer in charge of river and harbor works in Florida until November, 1891; as member of the International Boundary Commission between the United States and Mexico, November, 1891, to November, 1896; assistant in local charge of defensive works at Fort Monroe, Va., February 12 to October 10, 1895; assistant in local charge of Washington Aqueduct and in charge of Washington Aqueduct and water supply of the city of Washington, D. C., October 11, 1895, to May 3, 1898, except when engaged on survey of Portland Channel, Alaska, August to November, 1896; engineer officer on the staff of Maj.-Gen. James F. Wade, United States Volunteers, May 6 to June 11, 1898. He was appointed colonel, Third Regiment, United States Volunteer Engineers, June 7, 1898, and was in command of his regiment in the United States and in Cuba from June 12, 1898, to May 17, 1899, when honorably mustered out of volunteer service.

Served as assistant in connection with the Washington Aqueduct, May 22 to September 9, 1899; as assistant to the Engineer Commissioner, District of Columbia, September 9, 1899, to March 6, 1901; in
charge of river and harbor works, with station at Duluth, Minn., March 9, 1901, to June 6, 1903; on special duty in connection with the General Staff Corps, at Vancouver Barracks, Wash., June 9, 1903, to January 11, 1904; a member of the General Staff Corps, August 15, 1903, to May 18, 1904; as Chief of Staff, Department of the Columbia, October 13, 1903, to January 9, 1904; assistant to the Chief of Staff of the Northern Division, January 15 to October 31, 1904; on special duty at Headquarters of the Northern Division, November 1-13, 1904; under instruction at the Army War College, November 14, 1904, to March, 1905. Member of the General Staff Corps, March 23, 1905, to March 22, 1907; assistant to the Chief of Staff of the Expedition to Cuba, September 29, 1906, to February 21, 1907. Member of the Isthmian Canal Commission March 22, 1907. Supervisory engineer in charge of dredging in the harbors, of building the necessary breakwaters, and of all excavations in the canal prism, except that incidental to lock and dam construction, April, 1907, to June, 1908; Division Engineer, Central Division (including Culebra Cut), Isthmian Canal, July, 1908, to the date of his death.

On December 6, 1913, the House of Representatives of the United States adopted the following resolution:

"Resolved, That the House of Representatives has heard with profound sorrow of the death of Lieut.-Col. David DuBose Gaillard, for whose conspicuous and valuable services in connection with the construction of the Panama Canal the Nation is indebted."
"Resolved, That the Clerk of the House transmit a copy of these resolutions to the family of the deceased."

On December 8, 1913, the Senate of the United States adopted the following resolution:

"Resolved, That the Senate of the United States has heard with profound sorrow of the death of Lieut.-Col. David DuBose Gaillard, to whom the American people are under lasting obligations for the splendid service he rendered in overcoming some of the most perplexing difficulties in connection with the construction of the Panama Canal.

"Resolved, That in further testimonial of our esteem the Secretary of the Senate be authorized to forward a copy of these resolutions to the family of Lieutenant-Colonel Gaillard."

Colonel Gaillard was the author of Professional Papers No. 31, Corps of Engineers, "Wave Action in Relation to Engineering Structures."

As a tribute to his memory the officers of the Corps of Engineers will wear the usual badge of mourning for 30 days.

[90946—C. of E.]

By command of the Chief of Engineers:

Edw. Burr,
Colonel, Corps of Engineers.
SOME OFFICIAL LETTERS RELATING TO COLONEL GAILLARD'S EARLIER WORK
SOME OFFICIAL LETTERS RELATING TO COLONEL GAILLARD’S EARLIER WORK

THE ADJUTANT GENERAL TO THE CHIEF OF ENGINEERS

Headquarters of the Army.
7137, A. G. O. 1894.

Adjutant General’s Office,
Washington, May 17, 1894.

To the Chief of Engineers, U. S. Army.

Sir: The Major-General commanding the Army directs me to acknowledge the receipt, through your reference of the 10th inst., of an interesting and valuable paper prepared by First Lieut. D. D. Gaillard, Corps of Engineers, embracing a description of the country, roads, trails, water and grass, etc., along the Mexican Boundary Line between the Rio Grande and the Pacific; with maps accompanying; and to say that the thanks of the Army are due to the Engineer Department for this valuable information.

Very respectfully,

THE CHIEF OF ENGINEERS TO THE SECRETARY OF WAR

Office of the Chief of Engineers, United States Army.

Sir: I have the honor to submit the accompanying copy of letter of November 3, 1896, from Capt. D. D. Gaillard, Corps Engs., enclosing his report of results of preliminary examination of Portland Channel (Canal) Alaska.
The duty assigned Captain Gaillard has been performed in a prompt and very satisfactory manner and his unusually interesting report is submitted for such action as may be deemed proper in the judgment of the Secretary of War.

Very respectfully, your obedient servant,

W. P. Craighill,

Hon. Daniel S. Lamont,
Secretary of War.

THE SECRETARY OF STATE TO MEMBERS OF THE U. S. INTERNATIONAL BOUNDARY COMMISSION

Department of State.
Washington, Nov. 28, 1896.

Col. J. W. Barlow,
Capt. D. D. Gaillard,
A. T. Mosman, Esq.,
    Asst. C. G. Survey, Commissioners, etc.

Gentlemen:

I have to acknowledge the receipt of your letter of the 25th ult. submitting your final report touching the survey and re-marking of the boundary line between the United States and Mexico, pursuant to the Convention of July 29, '82, and subsequently revised, and continued to Oct. 11, 1896.

I wish to convey to you an expression of the Department's thanks for the manner in which you have discharged the onerous and delicate duties confided to you, and its appreciation of the character and intelligence of the report.
I shall at the proper time lay it before the President and take his direction in regard to its submission to Congress at its approaching session. I shall notify the Secretary of War that the final report having been submitted, Colonel Barlow and Captain Gaillard are released from further service under the Department of State, except when it comes to reading the proof of the report the Department may desire to avail itself of their services in order that its technical character may be competently and accurately proof read.

I am, gentlemen,

Your obedient servant,

(Signed) Richard Olney.

THE SECRETARY OF STATE TO THE SECRETARY OF WAR

Department of State.
Washington, Nov. 28, 1896.

The Honorable,
The Secretary of War,

Sir: I have the honor to say that Col. I. W. Barlow and Capt. D. D. Gaillard, Corps of Engineers, U. S. A., who were detailed by your department for service under this Department in connection with the survey and re-marking of the boundary line between the United States and Mexico, pursuant to the Convention of July 29, 1882, as subsequently revised and continued to October 11, 1896, have submitted with their colleague, Mr. A. T. Mosman of the U. S. C. G. Survey, their final report.

It is a pleasure to say that these officers have not only discharged their important and delicate duties
with high ability, care and fidelity, but that they earned the thanks of this Department, which are hereby tendered, and which I trust you will appropriately make known to them.

I have the honor to be, Sir,

Your obedient servant,

(Signed) Richard Olney.

LETTERS FROM THE SECRETARY OF STATE AND THE SECRETARY OF WAR TO THE CHIEF OF ENGINEERS

War Department, Office of the Secretary, Washington
Dec. 7, 1896.

Sir: I take pleasure in transmitting herewith, copy of a letter just received from Secretary of State, acknowledging the receipt of a copy of your report on the preliminary examination of Portland Channel (Canal) Alaska and expressing his satisfaction with the manner in which the work was performed.

Very respectfully,

(Signed) Daniel S. Lamont,
Secretary of War.

Gen. W. P. Craighill,
Chief of Engineers.

Department of State, Washington.
Dec. 4, 1896.

The Honorable The Secretary of War.

Sir: I have to acknowledge with thanks the receipt of your letter of the 2nd inst., transmitting for the information of this Department, a copy of a report of Capt. D. D. Gaillard, Corps Engrs. U. S. A., showing the results of a preliminary examination
of Portland Channel (Canal), Alaska. The Department is much pleased that the work has been so well and so intelligently accomplished.

I have the honor to be, Sir,
Your obedient servant,
(Signed) Richard Olney.

LIEUT.-COL. JOHN BIDDLE TO LIEUT.-COL. EDGAR JADWIN

Headquarters 3rd Battalion.
Matanzas, Cuba, Jan. 2, 1899.

To Lieut.-Col. Edgar Jadwin,
3rd Battalion 3rd U. S. Volunteer Engineers.

Sir: The Commanding General of the Spanish forces at Matanzas has requested me to express on the part of the Lieutenant-Général Commanding Spanish forces in Cuba, and on the part of the officers under his command at Matanzas their thanks and appreciation for the consideration and soldierly conduct shown them by the officers and men under your orders on the occasion of taking possession of this city by the United States forces on Jan. 1, 1899.

I desire also to state that the conduct of the Battalion, since its arrival here and under somewhat difficult conditions, has been in my opinion exemplary and worthy of the reputation for discipline and efficiency already attained by the 3rd U. S. V. Engineers.

Very respectfully,
(Signed) John Biddle,
Lieut.-Col. Chief Engs. 1st Army Corps.
LETTER FROM GEN. JOHN H. WILSON, CHIEF OF ENGINEERS

Office Chief of Engineers, United States Army, Washington, D. C.

Jan. 18, 1899.

Col. David DuB. Gaillard,
Camp Fornance, Macon, Georgia.

Colonel:

I have to acknowledge with thanks your courtesy in sending for the files of this office photographs of the admirable work done by your command. Such work indicates thorough organization, skill and discipline.

I congratulate you upon your regiment and I congratulate the regiment upon having so accomplished and soldierly a commanding officer.

Yours very respectfully,

(Signed) JOHN M. WILSON,
Brig.-Gen. Chief of Engrs., U. S. A.

LETTER FROM CAPT. WALTER B. BARKER

Office of Depot Quartermaster, Cienfuegos, Cuba.

Cuba, Apr. 13, '99.

Col. D. D. Gaillard,
Commanding 3rd Reg. U. S. V. Engrs.,
Cienfuegos, Cuba.

Colonel:

It is due and I take great pleasure in saying to you that with an experience of over eight months as Depot Quartermaster, and in charge of Ocean and R. R. Transportation, your command has limited the accustomed requests and demands on my Depart-

168
ment to a minimum, while on the other hand it has rendered me continual material assistance.

In common with all who are familiar with the efficiency of your regiment I regret that the Government is to lose its service.

With a grateful remembrance of your consideration to me personally as well as officially, believe me,

Your friend,

WALTER B. BARKER,

LETTER FROM CAPT. F. W. WOODRING


Colonel Gaillard,
Comdg. 3rd U. S. V. Engrs.,
Atlanta, Georgia.

Sir: I take occasion to write and inform you that your regiment left its camp in the cleanest and best condition of any regiment that has been detained on the Island of Daufuski.

I also wish to state that there was less confusion and delay in breaking camp and loading on to the river boats preparatory to moving than any other regiment. I know that this report will be gratifying to you.

Respectfully, your obedient servant,

(Signed) F. W. WOODRING,
Capt. A. Q. M., Asst. Depot Q. M.
LETTER FROM LIEUT.-GEN. ADNA R. CHAFFEE

Office of the Chief of Staff, Washington.
January 17, 1905.

Major David DuB. Gaillard,
Corps of Engineers,
Washington, D. C.

Sir: In order that your record at the War Department may fully set forth your attainments as an officer in special lines, I take occasion to thank you for your services while on a confidential mission for the War Department during the past year.

The Chief of the Second Division, General Staff, remarks as follows:

"The records of the division show that Major David DuB. Gaillard, Corps of Engineers, while on a confidential mission, displayed energy, discretion and ability in carrying out his instructions."

The Military Secretary has been instructed to file with your efficiency record a copy of this communication.

Very respectfully,
(Signed) Adna R. Chaffee,
Lieut.-General, Chief of Staff.
**CHRONOLOGY OF DAVID DuBOSE GAIL-LARD**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>Sept. 4, 1859</td>
<td>Born at Fulton, Sumter County, S. C.</td>
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<tr>
<td>July 1, 1880, to</td>
<td>U. S. Military Academy, West Point, N. Y.</td>
</tr>
<tr>
<td>June 15, 1884</td>
<td>Graduated from U. S. Military Academy.</td>
</tr>
<tr>
<td>June 15, 1884</td>
<td>Commissioned 2nd Lieutenant of Engineers.</td>
</tr>
<tr>
<td>Sept. 30, 1884, to</td>
<td>Engineer School of Application, Willets Point, N. Y. On duty with Battalion of Engineers.</td>
</tr>
<tr>
<td>April 18, 1887</td>
<td>Graduated from Engineer School of Application, Willets Point, N. Y.</td>
</tr>
<tr>
<td>April 9, 1887, to</td>
<td>Assistant to the officer in charge of the river and harbor improvements in Florida, with station at Jacksonville and St. Augustine.</td>
</tr>
<tr>
<td>Nov. 6, 1891</td>
<td>Married to Katherine Ross Davis of Columbia, S. C., at Winnsboro, S. C.</td>
</tr>
</tbody>
</table>

173
Oct. 22, 1887.  Commissioned 1st Lieutenant of Engineers.

Sept. 30, 1891, to Nov. 28, 1896.  Member of the International Boundary Commission, for the survey and the re-marking of the boundary between the United States and Mexico, west of the Rio Grande.


Oct. 25, 1895.  Commissioned Captain of Engineers.


Dec. 20, 1895, to May 3, 1898.  In charge of Washington Aqueduct, and of works for increasing water supply of Washington, D. C.


June 7, 1898.  Commissioned Colonel, Third Regiment United States Volunteer Engineers.

June 11, 1898, to May 17, 1899.  In command of Third Regiment of United States Volunteer Engineers at Jefferson

May 17, 1899. Chief Engineer, Department of Santa Clara, Cuba.


July 21, 1899, to March 6, 1901. Served as assistant in connection with Washington Aqueduct and increasing water supply of Washington, D. C.

March 9, 1901, to June 6, 1903. Assistant to Engineer Commissioner, District of Columbia.

June 6, 1903, to August 15, 1903. In charge of river and harbor improvements on Lake Superior, with station at Duluth, Minn.

Aug. 15, 1903, to May 18, 1904. On special duty at Headquarters, Department of the Columbia, Vancouver Barracks, Wash.

Aug. 15, 1903, to Oct. 15, 1903. Member of General Staff Corps.

Oct. 15, 1903, to Jan. 9, 1904. Asst. to Chief of Staff, Department of the Columbia, Vancouver Barracks, Wash.

Chief of Staff, Department of the Columbia, Vancouver Barracks, Wash.
Jan. 15, 1904, to May 18, 1904. Asst. to Chief of Staff, Northern Division, Saint Louis, Mo.

March 25, 1904, to Oct. 15, 1904. Engineer officer, Northern Division, Saint Louis, Mo. (Staff of Maj. Gen. J. C. Bates.)

April 23, 1904. Commissioned Major of Engineers.

Nov. 1, 1904, to Nov. 13, 1904. Special duty, Headquarters of the Northern Division, Saint Louis, Mo.


March 23, 1905, to March 22, 1907. Member General Staff Corps.


Oct. 6, 1906, to Feb. 21, 1907. Asst. to Chief of Staff, Expedition to Cuba, Chief of Military Information Division, Army of Cuban Pacification, Marianao, Cuba.

March 22, 1907. Member of the Isthmian Canal Commission. Director of the Panama Railroad.

April 1, 1907, to June 30, 1908. Supervisory Engineer, in charge of dredging harbors, of building breakwaters, and of all excavation in the canal prism, except that incidental to lock and dam construction.
July 1, 1908, to Dec. 5, 1913. Division Engineer, Central Division—Gatun to Pedro Miguel, including Culebra (now Gaillard) Cut.

April 11, 1909. Commissioned Lieutenant-Colonel of Engineers.

July 26, 1913. Stricken with illness at Culebra, which proved fatal.


Dec. 5, 1913. Died at Johns Hopkins Hospital, Baltimore, Md.

<table>
<thead>
<tr>
<th>Year</th>
<th>Vol.</th>
<th>Page</th>
<th>Subject</th>
<th>Date</th>
</tr>
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<tbody>
<tr>
<td>1888</td>
<td>2</td>
<td>1144 to 1151</td>
<td>Survey of Saint Augustine Harbor, Fla.</td>
<td>11/12/87</td>
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<td>1888</td>
<td>2</td>
<td>1104 to 1106</td>
<td>Improvement of Pease River, Fla.</td>
<td>5/2/88</td>
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<td>1889</td>
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<td>1317 to 1323</td>
<td>Cost of stability of jetties of various cross-sections, and force of breaking waves. (Sub't'd to Board of Engineers on improving St. Augustine Harbor.)</td>
<td>11/20/88</td>
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<td>1889</td>
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<td>1354 to 1355</td>
<td>Examination of Homosassa River, Fla.</td>
<td>1/11/89</td>
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<td>1356 to 1357</td>
<td>Examination of Crystal River, Fla.</td>
<td>1/12/89</td>
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<tr>
<td>1889</td>
<td>2</td>
<td>1361 to 1364</td>
<td>Examination of Ocklawaha River, Fla.</td>
<td>1/25/89</td>
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<tr>
<td>1890</td>
<td>2</td>
<td>1571 to 1577</td>
<td>Construction of groins, proportions, strength and cost of concrete and wave action in works for improving St. Augustine Harbor, Fla.</td>
<td>6/30/90</td>
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<td>1891</td>
<td>3</td>
<td>1632 to 1639</td>
<td>On wave action at St. Augustine, Fla.</td>
<td>6/12/91</td>
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<td>1896</td>
<td>6</td>
<td>3905 to 3941</td>
<td>Washington Aqueduct and increasing water supply of Washington, D. C.</td>
<td>7/17/96</td>
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<td>1897</td>
<td>6</td>
<td>3991 to 4023</td>
<td>Maintenance and repair of Washington Aqueduct and increasing the water supply of Washington, D. C.</td>
<td>7/17/97</td>
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<td>1897</td>
<td>4</td>
<td>3487 to 3498</td>
<td>Preliminary examination of Portland Channel (Canal), Southeast Alaska.</td>
<td>11/3/96</td>
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<td>1898</td>
<td>6</td>
<td>3642 to 3650</td>
<td>Filtration of Water Supply of the District of Columbia.</td>
<td>1/19/98</td>
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<td>Vol.</td>
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<td>1900</td>
<td>8</td>
<td>5126 to 5192</td>
<td>Report of Board of Officers of the Corps of Engineers and of Architects to consider certain designs which had been submitted for a memorial bridge across the Potomac River, Washington to Arlington. (Published as House Doc. No. 578, 56th Cong., 1st Sess.) (Col. Gaillard was a member of this board.)</td>
<td>3/28/00</td>
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<td>1901</td>
<td>1</td>
<td>71 to 73</td>
<td>Digest of the services of Colonel Gaillard in connection with the Spanish War, April, 1898, to May, 1899. (Also other services rendered by Third U. S. Vol. Engineers, pp. 59, 90-91.)</td>
<td>10/1/01</td>
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<td>1901</td>
<td>4</td>
<td>2821 to 2906</td>
<td>Improvement of rivers and harbors on Lake Superior.</td>
<td>7/13/01</td>
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<td>1902</td>
<td>3</td>
<td>2001 to 2042</td>
<td>Improvement of rivers and harbors on Lake Superior.</td>
<td>7/20/02</td>
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<td>1903</td>
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<td>1791 to 1831</td>
<td>Improvement of rivers and harbors on Lake Superior.</td>
<td>7/18/03</td>
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<td>1903</td>
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<td>464 to 475</td>
<td>Improvement of rivers and harbors on Lake Superior.</td>
<td>7/18/03</td>
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REPORTS CONTAINED IN ANNUAL REPORTS OF Isthmian Canal Commission


Report as Chief of Department of Excavation and Dredging, Isthmian Canal Commission, in Annual Report for the year ending June 30th, 1908 (U. S. 60th Congress, 2nd session, 1907-8, House documents, Volume 38), Appendix A, pp. 35-55.


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INDEX

ADAMSON, Hon. William C. Report of the Interstate Commerce Committee upon the work of Col. Gaillard .......................... 65
AIKEN, Hon. Wyatt.......................... 147
ALASKA boundary survey...14, 25
ARMY AND NAVY JOURNAL. Editorial tribute to Col. Gaillard .......................... 93-95
ATLANTA CONSTITUTION. Tribute to Col. Gaillard ...................... 104
AVERILL, Capt. Frank L ..................... 146
AVERILL, Mrs. Frank L .................... 146
BABBITT, Col. Edwin B .................... 146
—Remarks at the unveiling of the '84 West Point memorial tablet .......... 155
BAER, Lieut. Joseph A. Review of Col. Gaillard’s treatise on wave action ............. 140
BAKER, Charles Whiting. Letter to the New York Times...97-98
BALTIMORE AMERICAN. Comment upon Col. Gaillard’s work... 48
—Tribute to Col. Gaillard.. 104
—Tribute to Col. Gaillard, by Hon. L. M. Garrison .......... 71
BALTIMORE NEWS. Comments upon prompt action of the House of Representatives .......62-63
—Tribute to Col. Gaillard, 104-105
BARKER, Capt. Walter B. Letter commending service of Third U. S. Volunteer Engineers...168-169
BARNES, Lieut. ......................... 146
BATES, Ellen.............................. Foreword
BATES, Lieut.-Gen. John C. Foreword, 147
—Praises Third U. S. Volunteer Engineers ......................... 16
—Tribute to Col. Gaillard..74-75
BATTLE CREEK, Mich. NEWS. Tribute to Col. Gaillard......105-106
BAUMGARDNER, Lieut. ..................... 146
BEAUMONT, Tex., JOURNAL. Tribute to Col. Gaillard.........106-107
BISHOP, Joseph Bucklin. Excerpt from “The Panama Gateway,” 44
BLACK, Lieut. John W. Address at banquet of Third U. S. Volunteer Engineers, 1899.....89-90
BLACK, Col. William M. ................ 147
—Tribute to Col. Gaillard..79-82
BOSTON GLOBE. Tribute to Col. Gaillard ..........................107-108
BOSTWICK, Dr. A. E. Foreword
BRECKINRIDGE, Hon. Henry S. .......... 146
BRYCE, Hon. James. Excerpt from his “South America” ........... 44
—Quoted ..................... 104
BUFFALO ENGINEER. Tribute to Col. Gaillard ...................... 108
BUNAU-VARILLA, Philippe Jean, 27
BURR, Col. Edward....................... 147
BYRNES, Hon. James F. ................ 147
CABELL, Major D’R ....................... 146
CAMP GAILLARD. Named ............. 153
CANAL RECORD. Official order of Gen. Goethals upon death of Col. Gaillard ......63-64
CEDAR RAPIDS, IA., GAZETTE. Tribute to Col. Gaillard.........108-109
CHICAGO EVENING POST. Tribute to Col. Gaillard.............111-112
CHICAGO TRIBUNE. Tributes to Col. Gaillard .............109-111
CHITTENDEN, Brig.-Gen. H. M. Tribute to Col. Gaillard...... 77
CHURCH of the Presidents ........... 145
CIVIL WAR. Gaillard’s serving in Confederate Cause .......... 9
CLARK, Edward B. Describes Gaillard home at Culebra

CLARK, Mrs. Edward B. Excerpt from an article in the St. Louis Times

CLEVELAND LEADER. Tribute to Col. Gaillard

COLLIER'S WEEKLY. Editorial tribute to Col. Gaillard

COLUMBIA, S. C., RECORD. Tribute to Col. Gaillard

CONFEDERATE service. Gaillards in

CORNISH, Vaughan. Tribute to Col. Gaillard

CORNWALLIS, Lord. Offer to Gen. Richard Richardson rejected

CRAIGHILL, Brig.-Gen. W. P. Letter

CUBA. Work of Third U. S. Volunteer Engineers,

CULEBRA CUT. Dimensions

—Drills

—Excavation,

—Geology

—Name changed to Gaillard Cut

—Slides

—Use of dynamite

—See also PANAMA CANAL

CUSHING, Dr. Harvey

DAVENPORT, Ia., TIMES. Tribute to Col. Gaillard

"David and Goliath." Nicknames of D. D. Gaillard and W. L. Sibert at West Point

DAVIS, Col. Henry C.

DAVIS, Katherine Ross. See GAILLARD, Mrs. Katherine Ross Davis.

DAVIS, R. Means. Assists D. D. Gaillard to enter West Point, 12-14

DICKINSON, Hon. Jacob M. Tribute to Col. Gaillard

DUBOSE, Anne

DUBOSE, Capt. David St. Pierre


DUBOSE, Isaac. Ancestor of D. D. Gaillard

DUBOSE, Louis

DUBOSE, Adjutant Samuel. Ancestor of D. D. Gaillard

DUBOSE, Susan Richardson. See GAILLARD, Susan Richardson DUBOSE.

DUNLAP, REV. E. S.

DYNAMITE. Use in Panama Canal excavations

EDITORIAL appreciation of Col. Gaillard

ENGINEERING and CONTRACTING. Editorial upon D. D. Gaillard as author

ENGINEERING NEWS. Editorial upon the death of Col. Gaillard

ENGINEERING RECORD. Editorial upon the death of Col. Gaillard

EXCAVATION of Panama Canal. See PANAMA CANAL—CULEBRA CUT

FINLEY, Hon. David E.

FINLEY, Mrs. David E.

FOOTE, Col. Stephen M. Funeral of Col. Gaillard

—Gaillard as a soldier

—Foote, Mrs. Stephen M.

FRANKFORT, Ky., JOURNAL. Tribute to Col. Gaillard

—French machinery. Panama Canal excavations

—French work upon Panama Canal

—Gaillard, Capt. Alfred

—Gaillard, Daniel S.

—Gaillard, Daniel W.

—Gaillard, Col. David Dubose. Ancestry

—Birth

—Attends Mount Zion Institute

—Serves as clerk in store

—Enters competitive examination for West Point

—Teaches classes at Mount Zion Institute

—Graduates with honors at West Point
Resolutions upon his death, 57-63

Sketches of his life, 11-21, 135-139, 157-158

Tributes 71-90

Galillard, David St. Pierre: Son of D. D. Galillard 11, 14

Galillard, Lieut. Edmund 9

Galillard, H. A. 13

Galillard, Isaac 9

Galillard, John. Living 1363. 7

Galillard, Hon. John 8

Galillard, Mrs. Katherine Ross Davis Foreword Letter to the Third U. S. Volunteer Engineer Assn... 148-150

Tributes to 20, 67, 82

Galillard, Capt. Peter. Ancestor of D. D. Galillard. Service in Revolutionary War 8

Galillard, Col. Peter C. 9

Galillard, Pierre. Ancestor of D. D. Galillard 8

Galillard, Capt. Richard 9

Galillard, Sergeant-Major Samuel Isaac. Father of D. D. Galillard 9, 11

Galillard, Susan Richardson Du- Rose. Mother of D. D. Gal-
Official order upon death of Col. Gaillard

Tribute to Col. Gaillard

Gorgas, Major-Gen. W. C. Gaillard as a friend

Grove, Sergeant

Hamilton, Lieut.

Harding, Lieut.-Col. Chester

Tribute to Col. Gaillard


Hingham, Mass., Journal. Tribute to Col. Gaillard

Huguenot ancestry of Col. Gaillard

Huguenot memorial to Col. Gaillard

Human Factor. Editorial tribute to Col. Gaillard

Isthmian Canal Commission. Appointed

Jadwin, Lieut.-Col. Edgar

Jadwin, Mrs. Edgar

Jefferson Barracks, Mo. Third U. S. Volunteer Engineers mustered into service

Johnson, Hon. Joseph T.

Jones, Constant E.

Kipling, Rudyard. Prophecy in regard to the U. S. Engineering Corps

Kuhn, Lieut.-Col. Joseph E.

Ladd, Col. E. F.

Laird, John A.

Lamont, Hon. Daniel S. Letter

Landslides. See Culebra Cut.

Langfitt, Col. William C.

Lanier memorial, erected by Huguenot Soc. of S. C.

Lee, Gen. W. H. F. Huguenot memorial to

Leland, Prof.

Lever, Hon. Asbury F.

Lincoln, Hon. Robert T. Rules in favor of Gaillard in controversy over West Point appointment

Long, James A.

Los Angeles Tribune. Verses in memory of Col. Gaillard

Loving Cup. Presented to Col. Gaillard

McKim, Rev. Randolph H.

McMaster, Fleming. Gaillard serves as clerk in store of...

Mason, Dr. Charles

Maury memorial, erected by the Huguenot Soc. of S. C.

Mearns, Lieut.-Col. Edgar A.

Meridian, Miss., Star. Tribute to Col. Gaillard

Mexican boundary line. Gaillard a member of the International Commn.

Letter of Adj.-Gen. George D. Ruggles

Letters of Hon. Richard Olney

Mount Zion Institute

Muscatine, Ia., Journal. Tribute to Col. Gaillard

Nation. Editorial tribute to Col. Gaillard

National Geographic Magazine. Excerpt from "Battling with the Panama Slides," by W. J. Shoulter

Negro mutiny, Macon, Ga...

New Orleans Times Democrat. Tribute to Col. Gaillard

New York Herald. Tribute to Col. Gaillard

New York Journal. Tribute to Col. Gaillard

New York Sun. Tribute to Col. Gaillard


Sketch of Col. Gaillard

New York Tribune. Tribute to Col. Gaillard

New York World. Tribute to Col. Gaillard

Nibben, M.

Olney, Hon. Richard. Letters

Outlook. Editorial tribute to Col. Gaillard
Ragsdale, Hon. J. Willard... 147

Railway and Engineering Review. Editorial upon the death of Col. Gaillard.................. 100

Resolutions upon the death of Col. Gaillard.......................... 57-63

Revolutionary War. Ancestors of Col. Gaillard serving in... 8

Richardson, Dorcas Neilson. Ancestor of D. D. Gaillard..... 11

Richardson, Hon. J. S......... 12

Richardson, Col. Richard. Ancestor of D. D. Gaillard.....8, 10

Richardson, Gen. Richard. Ancestor of D. D. Gaillard. Member of the Provincial Congress, 10

——Rejects offer of Cornwallis, 10

——Service in Revolutionary War, 8, 10

——Service in the Cherokee wars, 9

Roosevelt, Hon. Theodore. Appoints Isthmian Canal Commis-
sion.................. 26, 51-52

——Plan to secure competent engineers for Panama Canal. 51

——Tribute to Col. Gaillard...... 72

Ruggles, Adj.-Gen. George D. Letter .................. 163

St. Louis. D. D. Gaillard comes to .................................. 128

St. Louis Globe-Democrat. Tribute to Col. Gaillard.125-126

St. Louis Republican. Tribute to Col. Gaillard..................126-131

St. Louis Times. Description of Gaillard home at Culebra.... 20

——Excerpt from article by E. B. Clark .................. 46

St. Mark’s Parish. Citizens present Gen. Richardson with serv-
ice of plate.................. 10

Shafter, Major-Gen. William Rufus .................. 15

Showalter, William Joseph. Excerpt from “Battling with the Panama Slides”...42-43

Sibert, Brig.-Gen. W. L. Appointed member of Isthmian Canal Commn.................. 26

——Returns to Panama....... 146

——Roommate of D. D. Gaillard at West Point.................. 13

——Tribute to Col. Gaillard.84-86

Smith, Hon. Ellison D....... 147

Smith, Mrs. Ellison D........ 147

Smith, Rev. Roland Cotton.... 147

Smith, Rev. Williamson...... 147

South Carolina. Senator presents testimonials to Col. Gaill-
dard .................. 58-61

Spanish-American War.15, 51-54

Spencer, Brig.-Gen. E. J...128, 146

Springfield Daily Republican. Tribute to Col. Gaillard.124-125

Steam Shovel and Dredge. Editorial upon the death of Col. Gaillard .................. 100-101

Stevens, John F. Resignation as chief engineer, Panama Canal, 26

Stimson, Hon. Henry L. Tribute to Col. Gaillard........... 73
Styer, Col. Henry D. 146
Taft, Hon. William H. Tribute to Col. Gaillard 72
Taylor, Lieut.-Col. Harry 147
Taylor, Mrs. Harry 146
Third United States Volunteer Engineers. Committee appointed to publish memorial to Col. Gaillard
Foreword
—Letter of Capt. F. W. Woodring, commending service 169
—Letter of Capt. Walter B. Barker, commending service, 168-169
—Letter of Col. John Biddle, commending its conduct in Cuba 167
—Letter of Gen. John M. Wilson, commending work 168
—Record 15-17, 75
—Target practice 53
Tillman, Hon. Benjamin R. 147
Tillman, Mrs. Benjamin R. 147
U. S. Chief of Engineers. Official order upon death of Col. Gaillard 65
—Corps of Engineers. Tribute to Col. Gaillard in Professional Papers 95
—Prophecy of Rudyard Kipling concerning 102
—House of Representatives. Resolution upon the death of Col. Gaillard 61-63, 158-159
—Senate. Resolution upon the death of Col. Gaillard 57-61, 159
Van Ornum, Prof. J. L. Tribute to Col. Gaillard 88-89
Wade, Gen. James F. 15
Walke, Col. Willoughby. Tribute to Col. Gaillard 87-88
Washington, Martha. Huguenot memorial tablet erected to 156
Washington (City) Aqueduct 14, 25
Washington Times. Tributes to Col. Gaillard 131-132
Wave Action upon engineering structures 17, 139
Weber, Frank J. Sounds “Taps” 148-149
West Point. Gaillards educated at 9
—Training 17
—Class of ’84 Bulletin. Culebra Cut 41
Whaley, Hon. Richard S. 147
Willetts Point, N. Y. D. D. Gaillard, officer in Service School of Engineering 14
Williamson, Sidney B. 28
Wilmington, Del. Journal. Tribute to Col. Gaillard 132
Wilson, Brig.-Gen. James H. Commends Third U. S. Volunteer Engineers 16
—Describes Col. Gaillard’s investigations of wave action upon engineering structures 17
—Tribute to Col. Gaillard 75-77
Wilson, Brig.-Gen. John M. 147
—Letter commending work of Third U. S. Volunteer Engineers 168
—Tribute to Col. Gaillard 78
Wilson, Hon. Woodrow 145-146
Wilson, Mrs. Woodrow 145-146
Wood, Major-Gen. Leonard 137, 146
Woodring, Capt. F. W. Letter commending Third U. S. Volunteer Engineers 169
Wotherspoon, Major-Gen. W. W. Tribute to Col. Gaillard 78