

THE CITADEL

ARCHIVES AND MUSEUM

ANNUAL REPORT

OF THE

BOARD OF VISITORS

OF THE

SOUTH CAROLINA MILITARY ACADEMY

FOR THE

FISCAL YEAR ENDING OCTOBER 31, 1888,

TO THE

GENERAL ASSEMBLY

OF THE

STATE OF SOUTH CAROLINA.

COLUMBIA, S. C.

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1888.

REPORT OF THE SUPERVISORS

BOARD OF VISITORS

SOUTH CAROLINA MILITARY ACADEMY

FISCAL YEAR ENDING OCTOBER 31, 1888

GENERAL ASSEMBLY

STATE OF SOUTH CAROLINA

THE JAMES H. HOGAN & CO. PRINTERS

REPORT OF BOARD OF VISITORS.

OFFICE CHAIRMAN BOARD OF VISITORS,
SOUTH CAROLINA MILITARY ACADEMY,
November 21st, 1888.

TO HIS EXCELLENCY JOHN PETER RICHARDSON:

The Board of Visitors of the South Carolina Military Academy have the honor to submit their Annual Report, to be by you transmitted to the General Assembly.

ACADEMIC BOARD.

Gen. GEO. D. JOHNSTON,
Superintendent and Professor of Moral Science and Constitutional Law.

Maj. WILLIAM CAIN,
Professor of Mathematics and Engineering.

Maj. C. L. REESE,
Professor of Chemistry and Physics.

1st Lieut. C. H. CABANISS, Jr., 18th Infantry, U. S. A.,
Professor of Military Science and Tactics.

Maj. JAMES CUMMINGS,
Professor of English Literature and History.

Capt. P. P. MAZYCK,
Assistant Professor, in Charge of Modern Languages.

2d Lieut. O. J. BOND,
Assistant Professor of Mathematics, and in Charge of Drawing and Bookkeeping.

2d Lieut. J. P. KINARD,
Assistant Professor of English Literature and History.

2d Lieut. J. T. COLEMAN,
Assistant Professor of Chemistry and Physics.

F. L. PARKER, M. D.,
Surgeon.

1st Lieut. W. W. WHITE,
Quartermaster.

It will be noted that Major C. L. Reese takes the place of Major Emmerson as Professor of Chemistry and Physics, and that Major James Cummings assumes the recently established chair of English Literature. The Board believes that these gentlemen are valuable additions to the Academic Board. Lieutenant Kinard and Lieutenant Coleman are acquisitions since the last Report. They are distinguished graduates of the school.

COURSES OF INSTRUCTION.

The branches of study taught at the South Carolina Military Academy are grouped under the following departments :

1. *Mathematics and Engineering*—Comprising Algebra, Geometry, Trigonometry, Surveying, Descriptive Geometry, Analytical Geometry, Calculus, Military Engineering, Civil Engineering, Drawing, Bookkeeping.

2. *Physical Science*—Comprising Physical Geography, Physiology and Hygiene, Natural Philosophy, Chemistry, Mechanics, Mineralogy, Geology, Astronomy.

3. *History, Belles Lettres and Ethics*—Comprising English Grammar, History of England, General History, English Literature, Rhetoric, Logic, Mental and Moral Philosophy, Political Economy, Constitutional Law, Elocution and Composition.

4. *Modern Languages*—Comprising usual course in French and reading French Classics.

5. *Military Science and Tactics*—Comprising principles of Military Science and their application to the Art of War, and the Tactics of the three Arms of the Service.

NOTE.—German has been added to the course of Modern Languages.

ORDER OF STUDIES.

FOURTH CLASS.

First Term—Algebra.
Physical Geography.
English Grammar.
French.

Second Term—Algebra and Geometry.
Physiology and Hygiene.
History of England.
French.
Declamation and Composition.

THIRD CLASS.

First Term—Geometry, completed.
 Plane and Spherical Trigonometry.
 Surveying.
 Physics.
 Outlines of General History and Lectures.
 French.
 Drawing.

Second Term—Surveying—Field Work with Instruments—completed.
 Descriptive Geometry—Shades and Shadows, &c.
 Physics (continued).
 Rhetoric.
 Logic.
 French.
 Drawing.
 Declamation and Composition.

SECOND CLASS.

First Term—Analytical Geometry.
 Chemistry—Inorganic.
 English Literature and Lectures.
 French.
 Drawing.

Second Term—Calculus, with Philosophy of Mathematics.
 Chemistry—Organic.
 Chemistry—Agricultural.
 Mental Philosophy.
 French.
 Drawing.
 Elocution and Essays.
 Tactics.

FIRST CLASS.

First Term—Civil Engineering.
 Mechanics.
 Mineralogy.
 Moral Philosophy and Lectures on Ethics.
 French.
 Drawing.
 Lectures on Military Law, and Procedure of Courts-martial.

Second Term—Civil and Military Engineering.

Astronomy.

Geology.

Political Economy, and Lectures.

Constitutional Law, and Lectures.

French.

Drawing.

Bookkeeping.

Elocution and Essays.

Art and Science of War.

NOTE.—In future the First and Second Classes will study German instead of French.

Schedule of Daily Recitations South Carolina Military Academy, Session 1888-89.

| CLASS. | 9:30 to 10:30. | 10:30 to 11:30. | 11:30 to 12:30. | 12:30 to 1:30. | 2:30 to 3:30. | 3:30 to 4:30. |
|--------|--------------------------|-----------------------------|-----------------|-----------------------------|-----------------------------|---------------------------------|
| 1 | MIL. SCI. On Fridays. | CON. LAW. | | MATH. | PHYSICS. | GERMAN. alt. Bookkeeping. |
| 2 | SEC. 1 | MATH. | ENGLISH. | MATH. | PHYSICS. | GERMAN. alt. Drawing. |
| | SEC. 2 | PHYSICS. | MATH. | | GERMAN. alt. Drawing. | ENGLISH. |
| 3 | SEC. 1 | FRENCH. Every other day. | | MATH. | ENGLISH. | DRAWING. Every other day. |
| | SEC. 2 | MATH. | | ENGLISH. | FRENCH. alt. Drawing. | PHYSICS. |
| 4 | SEC. 1 | FRENCH. Every other day. | PHYSICS. | | ENGLISH. | MATH. |
| | SEC. 2 | MATH. | | FRENCH. Every other day. | PHYSICS. | ENGLISH. |

ROSTER OF CADETS.

The cadets in the Academy are of two classes—beneficiaries supported by State appropriation, and pay cadets who defray their own expenses. In the following tables they are indicated respectively by the letters P and B, and are arranged in the order of merit in their respective classes as ascertained at the annual examination in June, 1888 :

FIRST CLASS.

9 MEMBERS—GRADUATED JULY 4, 1888.

| Order of General Merit. | NAMES. | COUNTY. | State. | Class—Pay or Beneficiary. | Age at Date of Admission | ORDER OF MERIT IN | | | | | | | |
|-------------------------|---------------------------|-------------------|--------|---------------------------|--------------------------|-------------------|----------|---------|----------|--------------------------|------------|-------------------|----------|
| | | | | | | Mathematics. | Physics. | French. | English. | Drawing and Bookkeeping. | Elocution. | Military Science. | Conduct. |
| | | | | | | | | | | | | | |
| 1 | B. L. Clark | Edgefield. . . | S. C. | B | 17 | 1 | 2 | 2 | 2 | 3 | 2 | 1 | 4 |
| 2 | M. W. Pyatt | Georgetown . . | " | P | 16 | 3 | 1 | 4 | 1 | 6 | 6 | 8 | 7 |
| 3 | A. G. Miller | Abbeville. . . . | " | B | 18 | 5 | 4 | 5 | 3 | 2 | 4 | 2 | 1 |
| 4 | F. H. Elmore | Charleston. . . . | " | B | 16 | 2 | 3 | 1 | 4 | 4 | 7 | 3 | 9 |
| 5 | G. H. Cornelson, Jr. . . | Orangeburg . . | " | P | 15 | 4 | 5 | 6 | 5 | 7 | 3 | 9 | 5 |
| 6 | J. H. Noland | Orangeburg . . | " | B | 17 | 6 | 6 | 7 | 6 | 1 | 5 | 6 | 3 |
| 7 | A. N. Brunson | Orangeburg . . | " | P | 15 | 7 | 8 | 3 | 8 | 5 | 1 | 4 | 2 |
| 8 | J. M. Patterson | Colleton. | " | B | 16 | 8 | 7 | 8 | 7 | 8 | 9 | 5 | 8 |
| 9 | J. R. Padgett | Colleton. | " | B | 17 | 9 | 9 | 9 | 9 | 9 | 8 | 7 | 6 |

SECOND CLASS—18 MEMBERS.

| Order of General Merit. | NAMES. | COUNTY. | State. | Class—Pay or Beneficiary. | ORDER OF MERIT IN | | | | | | | | | |
|-------------------------|----------------------|------------------|--------|---------------------------|--------------------------|----------|---------|----------|----------|----------------------------|-------------------|----------|----|--|
| | | | | | Age at Date of Admission | | | | | | | | | |
| | | | | | Mathematics. | Physics. | French. | English. | Drawing. | Elocution and Composition. | Military Science. | Conduct. | | |
| 1 | W. M. Smith | Spartanburg .. | S. C. | B | 17 | 6 | 3 | 1 | 2 | 2 | 3 | 9 | 4 | |
| 2 | W. W. Lewis | Chester | " | B | 18 | 4 | 6 | 8 | 1 | 7 | 2 | 1 | 2 | |
| 3 | S. B. Platt | Aiken | " | B | 17 | 1 | 5 | 2 | 10 | 8 | 15 | 2 | 5 | |
| 4 | L. W. Haskell | Abbeville | " | B | 17 | 3 | 2 | 5 | 7 | 6 | 8 | 4 | 8 | |
| 5 | M. L. Smith | Kershaw | " | P | 16 | 5 | 1 | 3 | 4 | 11 | 6 | 6 | 11 | |
| 6 | C. E. Johnson | Union | " | B | 15 | 2 | 4 | 4 | 3 | 18 | 1 | 7 | 15 | |
| 7 | W. C. Davis | Clarendon | " | P | 15 | 7 | 9 | 7 | 8 | 15 | 4 | 11 | 12 | |
| 8 | C. W. Wolfe | Williamsburg .. | " | B | 15 | 12 | 7 | 6 | 6 | 16 | 16 | 14 | 13 | |
| 9 | W. H. Dial | Madison | Fla. | P | 15 | 9 | 13 | 10 | 9 | 9 | 7 | 8 | 9 | |
| 10 | R. S. Clarkson | Richland | S. C. | B | 17 | 11 | 8 | 9 | 11 | 14 | 10 | 4 | 17 | |
| 11 | R. B. Cunningham .. | Kershaw | " | B | 16 | 10 | 15 | 13 | 5 | 10 | 5 | 3 | 10 | |
| 12 | W. H. Rose | Charleston | " | P | 16 | 15 | 10 | 15 | 12 | 5 | 13 | 12 | 7 | |
| 13 | T. B. Haynesworth .. | Darlington | " | P | 16 | 8 | 16 | 16 | 18 | 2 | 10 | 16 | 14 | |
| 14 | Frank George | Oconee | " | B | 16 | 13 | 11 | 11 | 16 | 17 | 12 | 14 | 16 | |
| 15 | D. McQ. Fraser | Sumter | " | B | 17 | 16 | 14 | 14 | 15 | 11 | 18 | 10 | 1 | |
| 16 | W. F. Graham | Charleston | " | P | 15 | 14 | 12 | 12 | 17 | 13 | 13 | 17 | 18 | |
| † | B. D. Lucas | Chesterfield .. | " | P | 16 | 17 | 17 | 17 | 13 | 4 | 17 | 13 | 3 | |
| ‡ | A. G. LaMotte | Richland | " | B | 16 | 18 | 18 | 18 | 14 | 1 | 9 | 18 | 6 | |

THIRD CLASS—56 MEMBERS.

| Order of General Merit. | NAMES. | COUNTY. | State. | Class—Pay or Beneficiary. | Age at Date of Admission | ORDER OF MERIT IN | | | | | | |
|-------------------------|-----------------------|-------------------|--------|---------------------------|--------------------------|-------------------|----------|---------|----------|----------|----------------------------|----------|
| | | | | | | Mathematics. | Physics. | French. | English. | Drawing. | Elocution and Composition. | Conduct. |
| 1 | W. H. Simons..... | Charleston..... | S. C. | B | 17 | 2 | 1 | 3 | 2 | 1 | 23 | 2 |
| 2 | R. B. Dunbar..... | Aiken..... | " | P | 17 | 6 | 2 | 11 | 7 | 5 | 3 | 1 |
| 3 | T. M. Hunter..... | Chester..... | " | B | 16 | 1 | 4 | 4 | 1 | 2 | 13 | 7 |
| 4 | J. E. Buzhardt..... | Newberry..... | " | B | 18 | 10 | 11 | 2 | 6 | 19 | 8 | 5 |
| 5 | L. DeV. Blake..... | Charleston..... | " | B | 16 | 8 | 12 | 5 | 8 | 3 | 10 | 6 |
| 6 | W. W. Dixon..... | Fairfield..... | " | B | 18 | 5 | 12 | 1 | 23 | 9 | 6 | 10 |
| 7 | E. C. Hughes..... | Kershaw..... | " | B | 17 | 4 | 7 | 14 | 5 | 6 | 7 | 23 |
| 8 | J. T. Boozer..... | Newberry..... | " | B | 17 | 6 | 14 | 20 | 11 | 16 | 13 | 8 |
| 9 | A. G. Singletary..... | Marion..... | " | B | 18 | 19 | 5 | 12 | 10 | 4 | 5 | 18 |
| 10 | S. D. Lucas..... | Berkeley..... | " | B | 16 | 16 | 15 | 6 | 20 | 25 | 23 | 3 |
| 11 | L. L. Gaillard..... | Charleston..... | " | B | 16 | 14 | 16 | 10 | 14 | 8 | 21 | 13 |
| 12 | W. E. Mikell..... | Beaufort..... | " | B | 18 | 22 | 6 | 8 | 17 | 22 | 2 | 21 |
| 13 | W. Godfrey..... | Chesterfield..... | " | B | 15 | 13 | 8 | 21 | 14 | 7 | 41 | 12 |
| 14 | C. D. Gooch..... | Marlboro..... | " | B | 17 | 11 | 3 | 13 | 4 | 15 | 16 | 32 |
| 15 | J. Ball..... | Berkeley..... | " | B | 16 | 9 | 25 | 9 | 26 | 19 | 13 | 20 |
| 16 | J. L. Ferguson..... | Berkeley..... | " | P | 18 | 12 | 10 | 7 | 28 | 12 | 15 | 29 |
| 17 | J. C. Bailey..... | Greenville..... | " | B | 16 | 18 | 17 | 16 | 12 | 11 | 17 | 22 |
| 18 | A. L. Humphreys..... | Anderson..... | " | B | 18 | 28 | 23 | 22 | 21 | 13 | 20 | 8 |
| 19 | D. G. Dwight..... | Fairfield..... | " | B | 15 | 25 | 9 | 15 | 23 | 24 | 26 | 25 |
| 20 | C. E. King..... | Darlington..... | " | P | 15 | 26 | 28 | 21 | 3 | 35 | 32 | 4 |
| 22 | B. S. Cogburn..... | Edgefield..... | " | B | 18 | 17 | 20 | 30 | 30 | 17 | 36 | 14 |
| 22 | R. L. Dargan..... | Darlington..... | " | B | 18 | 24 | 22 | 17 | 14 | 42 | 22 | 15 |
| 23 | F. C. Black..... | Spartanburg..... | " | B | 18 | 15 | 19 | 31 | 18 | 31 | 1 | 17 |
| 24 | B. A. Inglis..... | Madison..... | Fla. | P | 15 | 20 | 18 | 32 | 35 | 23 | 30 | 11 |
| 25 | G. W. Allison..... | Lancaster..... | S. C. | B | 16 | 3 | 21 | 27 | 22 | 30 | 38 | 30 |
| 26 | P. B. Bird..... | Jacksonville..... | Fla. | P | 17 | 21 | 27 | 24 | 25 | 40 | 17 | 24 |
| 27 | W. W. Tison..... | Hampton..... | S. C. | B | 15 | 23 | 24 | 29 | 34 | 23 | 25 | 28 |
| 28 | J. D. Nix..... | Hampton..... | " | B | 15 | 29 | 26 | 25 | 9 | 33 | 11 | 37 |
| 29 | J. F. Evans..... | Anderson..... | " | B | 17 | 38 | 29 | 18 | 13 | 36 | 9 | 19 |
| 30 | E. R. Zemp..... | Kershaw..... | " | P | 15 | 33 | 31 | 26 | 27 | 32 | 33 | 31 |
| 31 | R. I. Middleton..... | Charleston..... | " | B | 15 | 30 | 33 | 19 | 32 | 38 | 35 | 39 |
| 32 | F. M. Edwards..... | Beaufort..... | " | B | 15 | 27 | 30 | 39 | 29 | 26 | 40 | 43 |
| 33 | J. G. Watts..... | Laurens..... | " | B | 17 | 35 | 41 | 33 | 19 | 34 | 27 | 34 |
| 34 | H. A. DeLorme..... | Darlington..... | " | B | 17 | 41 | 40 | 36 | 34 | 43 | 17 | 27 |
| 35 | W. W. Stewart..... | Barnwell..... | " | B | 17 | 36 | 36 | 40 | 36 | 19 | 37 | 41 |
| 36 | L. S. Trotti..... | Barnwell..... | " | B | 18 | 40 | 34 | 41 | 38 | 39 | 43 | 38 |
| 37 | S. F. Garlington..... | Laurens..... | " | B | 17 | 46 | 43 | 38 | 39 | 9 | 3 | 35 |
| 38 | F. B. Grier..... | York..... | " | B | 17 | 37 | 35 | 42 | 40 | 34 | 44 | 49 |
| 39 | R. L. Clancy..... | Charleston..... | " | P | 16 | 31 | 37 | 46 | 48 | 27 | 44 | 42 |
| 40 | J. T. Burdell..... | Kershaw..... | " | P | 17 | 41 | 39 | 47 | 46 | 49 | 46 | 33 |
| 41 | R. B. Jones..... | Sumter..... | Fla. | P | 16 | 44 | 42 | 34 | 42 | 45 | 47 | 40 |
| 42 | G. Guerard..... | Chatham..... | Ga. | P | 16 | 47 | 47 | 28 | 41 | 47 | 29 | 44 |
| 43 | H. Eaves..... | Barnwell..... | S. C. | P | 16 | 39 | 46 | 48 | 44 | 29 | 49 | 48 |
| † | A. A. Aveille..... | Chatham..... | Ga. | P | 15 | 50 | 48 | 49 | 51 | 51 | 42 | 46 |

THIRD CLASS—56 MEMBERS.—CONTINUED.

| Order of General Merit. | NAMES. | COUNTY. | State. | Class—Pay or Beneficiary. | ORDER OF MERIT IN | | | | | | | | | |
|-------------------------|---------------------|------------------|--------|---------------------------|--------------------------|--------------|----------|---------|----------|----------|----------------------------|---------|--|--|
| | | | | | Age at Date of Admission | Mathematics. | Physics. | French. | English. | Drawing. | Elocution and Composition. | Conduct | | |
| † | J. B. Walker..... | Charleston | S. C. | P | 16 | 43 | 38 | 50 | 49 | 36 | 39 | 45 | | |
| a | R. W. Hutson..... | Hampton..... | " | P | 17 | 51 | 50 | 37 | 31 | 46 | ... | 46 | | |
| †b | H. C. Moore..... | York..... | " | B | 18 | 45 | 45 | 44 | 43 | 28 | 48 | 52 | | |
| b | Fred. Wannamaker.. | Orangeburg..... | " | B | 17 | 31 | 32 | 35 | 45 | 40 | 1 | 51 | | |
| †b | E. E. Buckhalter... | Aiken | " | B | 16 | 48 | 49 | 43 | 50 | 50 | 45 | 50 | | |
| c | W. S. Scott..... | Marion | " | B | 17 | 47 | .. | 51 | 47 | 48 | 28 | 36 | | |
| a | W. G. Gamble..... | Williamsburg.... | " | P | 17 | .. | .. | .. | .. | .. | .. | .. | | |
| a | R. W. Riley..... | Barnwell..... | " | P | 18 | .. | .. | .. | .. | .. | .. | .. | | |
| a | A. H. Moise..... | Sumter | " | B | 16 | .. | .. | .. | .. | .. | .. | .. | | |
| a | H. M. Wroton..... | Barnwell..... | " | P | 18 | .. | .. | .. | .. | .. | .. | .. | | |
| a | L. Y. King..... | Darlington..... | " | P | 17 | .. | .. | .. | .. | .. | .. | .. | | |
| b | J. N. Sims..... | Union | " | B | 18 | .. | .. | .. | .. | .. | .. | .. | | |

- a. Honorably discharged.
- b. Dismissed.
- c. Expelled.

FOURTH CLASS—46 MEMBERS.

| Order of General Merit. | NAMES. | COUNTY. | State. | Class—Pay or Beneficiary. | Age at Date of Admission | ORDER OF MERIT IN | | | | | | | |
|-------------------------|----------------------|--------------|--------|---------------------------|--------------------------|-------------------|----------|---------|----------|----------------------------|----------|--|--|
| | | | | | | Mathematics. | Physics. | French. | English. | Elocution and Composition. | Conduct. | | |
| | | | | | | | | | | | | | |
| 1 | J. W. Perrin | Abbeville | S. C. | B | 18 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 2 | T. J. Mauldin | Pickens | " | B | 17 | 4 | 8 | 8 | 2 | 5 | 2 | | |
| 2 | J. Lake | Edgefield | " | B | 17 | 16 | 3 | 4 | 8 | 2 | 4 | | |
| 4 | H. W. Fraser | Georgetown | " | B | 15 | 3 | 9 | 2 | 3 | 14 | 24 | | |
| 5 | D. D. Salley | Orangeburg | " | B | 17 | 7 | 6 | 16 | 10 | 6 | 10 | | |
| 6 | J. B. Dunlap | Kershaw | " | P | 17 | 14 | 4 | 3 | 5 | 3 | 11 | | |
| 7 | E. M. Whaley | Berkeley | " | P | 16 | 8 | 12 | 11 | 9 | 17 | 16 | | |
| 8 | W. N. Tillinghast | Richland | " | B | 18 | 16 | 10 | 5 | 6 | 22 | 5 | | |
| 9 | E. M. Wilson | Charleston | " | P | 15 | 5 | 2 | 10 | 19 | 8 | 25 | | |
| 10 | A. S. Salley | Orangeburg | " | P | 16 | 20 | 16 | 9 | 4 | 4 | 8 | | |
| 11 | E. M. Blythe | Greenville | " | B | 15 | 6 | 15 | 17 | 16 | 19 | 20 | | |
| 12 | W. O. Rivers | Colleton | " | B | 16 | 9 | 7 | 6 | 14 | 18 | 30 | | |
| 13 | H. O'Neill | Lexington | " | B | 17 | 12 | 20 | 21 | 11 | 10 | 7 | | |
| 14 | A. M. Brailsford | Clarendon | " | B | 16 | 19 | 5 | 15 | 13 | 6 | 12 | | |
| 15 | J. W. Magrath | Charleston | " | P | 15 | 2 | 17 | 13 | 20 | 12 | 39 | | |
| 16 | D. A. Spivey | Horry | " | B | 19 | 12 | 19 | 26 | 22 | 28 | 14 | | |
| 17 | J. E. Frost | Richland | " | P | 18 | 23 | 27 | 12 | 25 | 7 | 9 | | |
| 18 | E. B. Lorrick | Kershaw | " | P | 16 | 26 | 12 | 23 | 7 | 25 | 17 | | |
| 19 | J. A. Hayne | Greenville | " | P | 15 | 10 | 18 | 19 | 18 | 13 | 39 | | |
| 20 | Jenkins M. Robertson | Charleston | " | P | 15 | 10 | 26 | 20 | 31 | 24 | 35 | | |
| 21 | J. R. Robertson | Charleston | " | P | 16 | 24 | 29 | 7 | 28 | 20 | 29 | | |
| 22 | R. A. Smyth | Charleston | " | P | 16 | 27 | 28 | 14 | 26 | 23 | 23 | | |
| 23 | H. J. McLaurin | Sumter | " | P | 17 | 22 | 24 | 25 | 21 | 38 | 22 | | |
| 24 | P. K. McCulley | Anderson | " | P | 15 | 31 | 22 | 18 | 24 | 9 | 18 | | |
| 25 | A. F. Carter | Colleton | " | P | 17 | 30 | 14 | 22 | 12 | 21 | 32 | | |
| 26 | R. Roberts | Barnwell | " | P | 17 | 21 | 23 | 30 | 30 | 31 | 19 | | |
| 27 | W. C. Humphreys | Anderson | " | P | 17 | 32 | 25 | 28 | 15 | 16 | 3 | | |
| 28 | W. G. Cooper | Chatham | Ga. | P | 15 | 25 | 31 | 27 | 27 | 42 | 33 | | |
| 29 | Geo. Geraty | Berkeley | S. C. | B | 17 | 35 | 11 | 24 | 17 | 32 | 34 | | |
| 30 | J. P. Callaghan | Charleston | " | P | 17 | 15 | 30 | 37 | 32 | 35 | 43 | | |
| 31 | J. R. Rutledge | Greenville | " | P | 17 | 28 | 32 | 33 | 39 | 33 | 6 | | |
| 32 | G. H. Klatte | Aiken | " | P | 15 | 18 | 41 | 32 | 37 | 37 | 31 | | |
| 33 | W. W. Simons | Charleston | " | P | 16 | 34 | 37 | 29 | 33 | 27 | 15 | | |
| 34 | C. J. Epps | Williamsburg | " | B | 18 | 38 | 21 | 39 | 29 | 30 | 26 | | |
| 35 | W. L. Mack | Orangeburg | " | P | 18 | 37 | 34 | 31 | 34 | 26 | 28 | | |
| 36 | J. L. Oliver | Charleston | " | P | 16 | 29 | 38 | 36 | 36 | 29 | 38 | | |
| 37 | J. Miller Robertson | Richmond | Ga. | P | 16 | 35 | 33 | 34 | 23 | 35 | 37 | | |
| 38 | J. P. Crawford | York | S. C. | P | 18 | 33 | 40 | 42 | 38 | 34 | 36 | | |
| | W. N. Steinmeyer | Charleston | " | P | 16 | ... | ... | ... | ... | ... | ... | | |
| † | C. A. Floyd | Laurens | " | P | 18 | 39 | 35 | 38 | 35 | 39 | 21 | | |
| † | F. J. P. Cogswell | Charleston | " | P | 15 | 40 | 36 | 40 | 40 | 43 | 42 | | |
| † | A. B. Miller | Charleston | " | P | 16 | 41 | 39 | 41 | 39 | 41 | 27 | | |
| † | D. Huguenin | Charleston | " | P | 15 | 42 | 42 | 35 | 41 | 14 | 41 | | |

FOURTH CLASS—46 MEMBERS—CONTINUED.

| Order of General Merit. | NAMES. | COUNTY. | State. | Class—Pay or Beneficiary. | ORDER OF MERIT IN | | | | | | |
|-------------------------|--------------------|------------------|--------|---------------------------|--------------------------|--------------|----------|---------|----------|----------------------------|----------|
| | | | | | Age at Date of Admission | Mathematics. | Physics. | French. | English. | Elocution and Composition. | Conduct. |
| a | B. S. Lucas | Darlington | S. C. | P | 18 | 43 | 43 | 43 | 42 | 40 | 13 |
| b | W. B. Byers | York | " | P | 19 | .. | .. | .. | .. | .. | .. |
| c | W. L. Law | York | " | P | 19 | .. | .. | .. | .. | .. | .. |
| c | W. C. Gist | York | " | P | 16 | .. | .. | .. | .. | .. | .. |
| c | W. F. Murphy | Charleston | " | P | 16 | .. | .. | .. | .. | .. | .. |

- a. Honorably discharged.
 b. Sick—not graded.
 c. Expelled.
 d. Found deficient at February examination and turned back to join his present class.

GENERAL MERIT ROLL OF THE CLASS GRADUATED JULY 4, 1888.

| ORDER OF GENERAL MERIT. | NAMES. | MATHEMATICS. | PHYSICS. | FRENCH. | ENGLISH. | DRAWING AND BOOKKEEPING. | ELOCUTION. | MILITARY SCIENCE. | CONDUCT. | TOTAL. |
|-------------------------|--------------------------|--------------|----------|---------|----------|--------------------------|------------|-------------------|----------|--------|
| | MAXIMUM IN EACH BRANCH. | 180.00 | 165.00 | 120.00 | 127.50 | 45.00 | 45.00 | 30.00 | 20.00 | 732.50 |
| 1 | B. L. Clark..... | 165.13 | 149.48 | 115.97 | 120.35 | 42.24 | 42.08 | 29.01 | + .60 | 664.86 |
| 2 | M. W. Pyatt..... | 156.01 | 149.72 | 110.60 | 121.49 | 41.23 | 40.81 | 27.11 | - 6.22 | 640.95 |
| 3 | A. G. Miller..... | 151.51 | 136.88 | 110.34 | 117.59 | 42.60 | 41.49 | 28.88 | + 6.82 | 635.61 |
| 4 | F. H. Elmore..... | 159.36 | 141.30 | 117.00 | 117.40 | 42.22 | 40.21 | 28.04 | - 15.24 | 630.29 |
| 5 | G. H. Cornelson, Jr..... | 153.72 | 135.39 | 109.40 | 116.60 | 40.90 | 41.76 | 27.00 | - 2.26 | 622.71 |
| 6 | J. H. Noland..... | 142.32 | 133.01 | 105.21 | 111.12 | 43.45 | 41.04 | 27.58 | + 2.81 | 606.55 |
| 7 | A. N. Brunson..... | 137.14 | 127.62 | 111.90 | 105.48 | 41.68 | 42.20 | 28.02 | + 3.98 | 598.02 |
| 8 | J. M. Patterson..... | 133.96 | 130.22 | 100.00 | 111.00 | 40.22 | 39.46 | 27.97 | - 9.62 | 576.21 |
| 9 | J. R. Padget..... | 123.88 | 117.87 | 95.84 | 103.28 | 39.40 | 39.55 | 27.55 | - 3.67 | 543.70 |

LIST OF DISTINGUISHED CADETS REPORTED AT THE ANNUAL
EXAMINATION, 1888.

| Number. | NAME. | COUNTY. | STUDIES IN WHICH CADET PARTICULARLY EXCELS. |
|---------------|-------------------------|-----------------------|--|
| FIRST CLASS. | | | |
| 1 | B. L. Clark | Edgefield | Mathematics, Physics, French, English, Elocution and Military Science. |
| 2 | M. W. Pyatt | Georgetown | Physics and English. |
| SECOND CLASS. | | | |
| 1 | W. M. Smith | Spartanburg | French, English and Drawing. |
| 2 | W. W. Lewis | Chester | English, Elocution and Composition, and Military Science. |
| THIRD CLASS. | | | |
| 1 | W. W. Simons | Charleston | Mathematics, Physics, English and Drawing. |
| 2 | R. B. Dunbar | Aiken | Physics. |
| FOURTH CLASS. | | | |
| 1 | J. W. Perrin | Abbeville | Mathematics, Physics, French, English, Elocution and Composition. |
| 2 | T. J. Mauldin | Pickens | English. |

BATTALION ORGANIZATION.

July, 1888.

STAFF.

ADJUTANT—NOLAND.

QUARTERMASTER—PYATT.

SERGEANT-MAJOR—DAVIS.

QUARTERMASTER-SERGEANT—LAMOTTE.

COMPANY OFFICERS.

| <i>Company "A."</i> | <i>Company "B."</i> | <i>Company "C."</i> | <i>Company "D."</i> |
|---|--|---|--|
| CAPTAIN, MILLER, A. | CAPTAIN, CORNELSON. | CAPTAIN, BRUNSON. | CAPTAIN, CLARK. |
| LIEUTENANT, ELMORE. | LIEUTENANT, PADGETT. | LIEUTENANT, ROSE. | LIEUTENANT, PATTERSON. |
| FIRST SERGEANT, LEWIS. | FIRST SERGEANT, CUNNINGHAM. | FIRST SERGEANT, PLATT. | FIRST SERGEANT, HASKELL. |
| SERGEANTS, SMITH, W. SMITH, M. | SERGEANT, FRASER, D. | SERGEANTS, LUCAS, B. D. HAYNESWORTH. | SERGEANTS, JOHNSON. DIAL. |
| CORPORALS, GRAHAM. HUMPHEYS, L. GAILLARD. BAILEY. DELORME. | CORPORALS, SINGLETARY. SIMONS, H. BLAKE. KING, C. BALL. | CORPORALS, FERGUSON. DIXON. EVANS. DWIGHT. HUNTER. | CORPORALS, DUNBAR. BUZHARDT. HUGHES. LUCAS, S. D. BIRD. |

COLOR GUARD.

COLOR SERGEANT—SMITH, W.

COLOR CORPORALS—SIMONS, H., DIXON, HUGHES.

CLASS ENTERING OCTOBER, 1888.

| DATE. | CLASS. | NAMES. | AGE. | HEIGHT. | COUNTY. | PARENT OR GUARDIAN. | ADDRESS. |
|----------------------|-----------------------------------|-------------------------------------|---------------------------------|-------------------------------------|-----------------------|----------------------------|----------------------------|
| V W - 2 October 1 | ... | B Andrews, Burt William..... | 16 | Ft. 5 7 ³ / ₂ | Orangeburg..... | B. Williamson..... | Orangeburg, S. C. |
| | P | Baker, Charles Theodore..... | 18 | 5 9 | Abbeville..... | T. Baker..... | Lowndesville, S. C. |
| | ... | B Beckwith, John George..... | 15 | 5 2 | Orangeburg..... | Mrs. A. H. Beckwith..... | Orangeburg, S. C. |
| | ... | B Brown, Palmer..... | 18 | 5 7 ¹ / ₂ | Sumter..... | Mrs. Manning Brown..... | Sumter, S. C. |
| | ... | B Buckingham, Eugene Randolph..... | 17 | 5 6 | Aiken..... | Mrs. E. Buckingham..... | Ellenton, S. C. |
| | P | Chisolm, William Wash..... | 15 | 5 1 ¹ / ₂ | Chatham, Ga..... | W. W. Chisolm..... | Savannah, Ga. |
| | P | Coflin, George Washington..... | 15 | 5 7 ¹ / ₂ | Richmond, Ga..... | C. E. Coflin..... | Augusta, Ga. |
| | P | Connelley, George Hugh Winkler..... | 15 | 5 1 ¹ / ₂ | Charleston..... | J. M. Connelley..... | 143 Calhoun Street. |
| | P | Dean, Thaddeus Charles..... | 16 | 5 10 ¹ / ₂ | Spartanburg..... | G. B. Dean..... | Campton, S. C. |
| | P | DuBose, Hampden Coke..... | 18 | 5 2 ³ / ₂ | Kershaw..... | M. A. DuBose..... | Camden, S. C. |
| | B | Etheridge, Allan Gaitan..... | 18 | 5 9 ¹ / ₂ | Edgefield..... | A. Etheridge..... | Batesburg, S. C. |
| | P | Foot, Raphael Moses..... | 17 | 5 4 ³ / ₂ | Newberry..... | M. Foot..... | Newberry, S. C. |
| | P | Gilchrist, Robert Benjamin..... | 15 | 5 3 | Charleston..... | R. C. Gilchrist..... | 12 Bee Street. |
| | B | Hasell, Rufus Ingraham..... | 18 | 5 10 ¹ / ₂ | Barwell..... | P. G. Hasell..... | 64 Warren Street. |
| | P | Hays, Nicholas Eion..... | 18 | 5 9 ¹ / ₂ | Kershaw..... | E. R. Hays..... | Bamberg, S. C. |
| | P | Kennedy, Alfred Edward..... | 17 | 5 9 ¹ / ₂ | Kershaw..... | General J. D. Kennedy..... | Shanghai, China. |
| | P | Latham, William Thomas..... | 17 | 5 11 | Kershaw..... | S. B. Latham..... | Camden, S. C. |
| | P | Lockwood, William Lee..... | 17 | 5 5 ¹ / ₂ | Charleston..... | Dr. S. L. Lockwood..... | 75 Cannon Street. |
| | ... | B Manning, Austin Stackhouse..... | 16 | 5 7 ¹ / ₂ | Marion..... | Houston Manning..... | Little Rock, S. C. |
| | ... | B McElwee, James Francis..... | 18 | 6 1 | York..... | S. A. McElwee..... | Yorkville, S. C. |
| | ... | B McGhee, William Zach..... | 16 | 5 6 ¹ / ₂ | Abbeville..... | Mrs. S. H. McGhee..... | Greenwood, S. C. |
| | P | Mims, William Washington..... | 20 | 5 10 ¹ / ₂ | Colleton..... | Dr. J. B. Mims..... | St. George's, S. C. |
| | P | Moorer, Jacob Jenkins..... | 16 | 5 3 ³ / ₄ | Colleton..... | Mrs. M. A. Moorer..... | St. George's, S. C. |
| | 2 | B Padgett, James Graham..... | 18 | 5 11 | Colleton..... | H. D. Padgett..... | Snoak's Cross Roads, S. C. |
| | 1 | P Pinckney, Charles Seyle..... | 16 | 5 8 ¹ / ₂ | Charleston..... | S. G. Pinckney..... | 104 Wentworth Street. |
| | ... | B Scaife, Hazel Lewis..... | 16 | 5 8 | Union..... | H. F. Scaife..... | Union, S. C. |
| | P | Seigler, James Gardner..... | 17 | 5 6 ¹ / ₂ | Aiken..... | A. S. Seigler..... | Aiken, S. C. |
| | P | Smith, Albert Porter..... | 14 | 5 7 ¹ / ₂ | Hampton..... | W. W. Smith..... | Brighton, S. C. |
| | ... | B Thomas, Albert Sydney..... | 15 | 5 7 | Richland..... | J. P. Thomas..... | Columbia, S. C. |
| | P | Walker, Newton Pinckney..... | 16 | 5 5 | Spartanburg..... | N. F. Walker..... | Cedar Spring, S. C. |
| P | Wilcox, Frank Semple..... | 15 | 5 4 | Polk, N. C..... | L. N. Wilcox..... | McAboy's, N. C. | |
| 4 | P Cunningham, Richard Wayne..... | 16 | 5 7 ¹ / ₂ | Savannah, Ga..... | H. C. Cunningham..... | Savannah, Ga. | |
| 5 | P Lowndes, William..... | 16 | 5 3 ¹ / ₂ | Georgetown..... | R. Ira Lowndes..... | Anandale, S. C. | |
| 6 | P Davis, Alexander Colclough..... | 16 | 5 7 | Clarendon..... | C. E. Davis..... | Manning, S. C. | |
| P | Atkinson, Christopher..... | 15 | 5 9 | Mecklenburg, N. C..... | W. R. Atkinson..... | Charlotte, N. C. | |

Reference is made to the Report of the Superintendent hereto appended for further academic details.

FINANCES.

The Superintendent's Annual Report of receipts and disbursements shows a small balance to the credit of the institution. His vouchers have, in accordance with law, been filed with the Comptroller General. There are no outstanding claims against the school.

The expenditure per cadet has been, as heretofore, \$300 per annum.

The usual appropriation of \$20,000 for the "free education and maintenance" of the sixty-eight beneficiary cadets provided by law is requested.

CLAIM AGAINST THE UNITED STATES.

The claim for rent and damages to the Citadel building during the occupation of the same by its military forces has been at length conceded by the United States Government, and the last Congress appropriated the sum of seventy-seven thousand two hundred and fifty dollars in discharge thereof.

By a Concurrent Resolution of the General Assembly of 1879, the Board of Visitors were placed in charge of the collection of this claim, with instructions to employ counsel to prosecute the same; said counsel to be paid out of any money recovered. By the terms of the Congressional appropriation referred to, the money could only be paid directly to the State, and not to the Board of Visitors. It will therefore devolve upon the Legislature to adjust the compensation of counsel. The services contracted for were not rendered in full, but valuable aid was given in the earlier prosecution of the claim by the counsel employed. An equitable sum should be promptly paid them, and, to enable the amount to be arrived at intelligently, a full history of the prosecution of the claim and a minute account of the connection of counsel therewith, is appended to this Report.

DISPOSITION OF THE FUND COLLECTED.

The Act to authorize the reopening of the South Carolina Military Academy, approved January 31, 1882, appropriated \$10,000 to repair the Citadel building and purchase the necessary outfit to start the Academy; and the further sum of five thousand dollars for the support of the Academy during the portion of the current year it was expected to be opened.

The Act further provided that (Section 4) "the amount which may be received by the State for the rent of the Citadel buildings

and for damages for the destruction of the West wing thereof, shall, when collected and all expenses of said collection be paid therefrom, be paid into the Treasury of the State, to be held subject to the purposes of said Academy as may hereafter, from time to time, be determined by the General Assembly; but, in case of such collection, the sums appropriated in the preceding Section shall be repaid from such collections into the State Treasury, to be applied to the general purposes of the State Government."

The Citadel building, when received by the State, was in a dilapidated condition, and the \$10,000 appropriated for its repair and the outfit of the Academy sufficed barely to make it habitable and to give a meagre outfit to the school. No subsequent appropriation for these purposes has been received. Wear and tear, both of building and outfit, has been inadequately met by economising from the annual maintenance fund of beneficiaries and the amount received from pay cadets. This was not contemplated by the fundamental law establishing the Academy, nor was it the usage prior to the suspension of the school; but it appeared to the Board that circumstances for the time dictated this course. From the fund now happily secured "for the purposes of the Academy," and derived from the use of its own buildings, appropriation should be made at once to rebuild the wing destroyed, complete the repair of the remainder of the building, and give the school the outfit which it needs for domestic as well as scientific purposes.

Estimates by competent persons hereto appended make the sums needed as follows:

| | | |
|---|----------|----------|
| For rebuilding burnt wing and repairs, &c., main building.. | \$57,100 | |
| For Library outfit..... | \$6,000 | |
| For Department Mathematics and Engineering.... | 2,358 | |
| For Department Chemistry, Physics, Mineralogy, &c. | 10,340 | |
| For Department Drawing..... | 1,070 | 19,968 |
| | | <hr/> |
| Aggregate | | \$76,968 |

The aggregate thus reached exceeds somewhat the total fund in hand, without deducting the costs of collection and the refund to the State. It is hoped that the latter will be remitted, and after reserving in the Treasury an amount amply sufficient to meet the claim of the agents when the same shall be adjusted, that the remainder be at once appropriated to the purposes of the Academy for which it is so much needed.

ACCOMPANYING PAPERS.

I have the honor herewith to submit :

1. The Superintendent's Annual Report and Financial Exhibit.
2. A history of the prosecution of the Federal claim.
3. Estimates for rebuilding, repairs and outfit.

CONCLUSION.

The Board of Visitors desire to commend the conduct of the school by a skilful and judicious Superintendent, assisted by its able Academic Board. The cadets, in conduct and acquirement, meet their expectations. The Board are gratified in believing that the Academy is second to none of its class in the United States. It fills a place in our educational system of recognized value, and deserves, as it receives, the fostering care of the State.

JOHNSON HAGOOD,
Chairman Board of Visitors.

SUPERINTENDENT'S REPORT.

HEADQUARTERS SOUTH CAROLINA MILITARY ACADEMY,
CITADEL, CHARLESTON, S. C., November 6th, 1888.

*General JOHNSON HAGOOD, Chairman Board of Visitors
South Carolina Military Academy.*

GENERAL: I have the honor to submit herewith an account of the receipts and disbursements of the Academy for the fiscal year ending October 31st, 1888; together with the monthly accounts of the Quartermaster for the same period.

I further submit a transcript of the register of cadets who have been admitted to the institution the present session, a copy of the schedule of daily recitations for the present session, and the official register of the Academy for the session of 1887-88.

In my Report, submitted after our last annual examination, the affairs of the institution for the session of 1887-88 were fully stated. I forbear recapitulating them in this paper.

We have on our rolls 128 cadets, (the same number that we had when I submitted my Report of November 1st, 1887.) Of this number, 93 were in attendance last session and 35 have been admitted the present session. Of the former class, 56 are beneficiaries, and 37 are pay cadets. Of the latter class, 12 are beneficiaries and 23 are pay cadets.

Of the total, 118 are from South Carolina, 2 from North Carolina, 2 from Florida, and 6 from Georgia.

Since the close of the last Academic session, 11 pay cadets have been honorably discharged, of which number 5 were found deficient in studies at our annual examination in June last, and were refused advancement with their classes; one beneficiary cadet has been discharged for deficiency in studies, and one has been suspended for deficiency in conduct. Two pay cadets have deserted the Academy, one of whom was found deficient in studies at our last annual examination.

The cadets have entered upon the duties of this session with cheerful spirit and commendable purpose. The progress which they are making in the several departments of their work is quite satisfactory, and promises gratifying improvement as the session advances.

The officers of the Academy are discharging their duties with fidelity and efficiency. Those who were lately elected by your honorable body to Professorships and Assistant Professorships in the institution have reported and been assigned to duty under your directions. I take pleasure in adding that they promise to become valuable acquisitions to the Academic Board, and eminently useful in their special spheres of service.

The new Chairs which you have created complete, I think, the curriculum under our distinctive system. A full course in Pure and Applied Mathematics, including Civil and Military Engineering; in English Literature and History; in Chemistry and Physics; and in French and German; with a course in Moral Science, Political Economy and Constitutional Law; in Military Science and Art; and in Drawing and Bookkeeping, embodies a comprehensive series of practical studies which can be mastered, and are as much as can be mastered by the average cadet in a four years' course. We may safely commend it to anyone seeking the serviceable in education.

I refer with especial pleasure to the excellent deportment of the cadets. To soldierly bearing, they add respect for authority and an unusually high moral tone. While this is an important measure the outgrowth of that *esprit de corps* which has ever signalized the cadets of this Academy, it is unquestionably greatly the result of the moral agencies which have been actively at work among the cadets for some time. The Cadet Christian Association, the Cadets of Temperance, the Bible Classes and the Prayer Circles have solidified and diffused a moral sentiment in the school which is strikingly noticeable, and which is effecting great good in all the spheres of cadet life. May we not hope, and even expect, that these influences will strengthen the Academy in the good will and confi-

dence of those who desire that their sons shall be educated under conditions as favorable as possible to their moral cultivation and development?

In accordance with your instructions, I have had the cadets' quarters and the public rooms of the Citadel repaired and repainted, and have also had the bedding for the cadets' use thoroughly renovated. The cost of the same, amounting to \$977.30, has been liquidated, as will appear in the accounts for July and August. The Quartermaster, Lieutenant White, who had the immediate charge of this work, by care and economy reduced its expense to minimum, thereby saving to the Academy an important sum.

In conclusion, we have occasion to be grateful to a kind Providence for His continued blessing to the institution. We will trustfully commit its future to His care.

I have the honor to be,

Your obedient servant,

GEORGE D. JOHNSTON, Superintendent.

Superintendent's Annual Account of Receipts and Expenditures for the Fiscal Year Ending October 31, 1888.

| | | | | | | | | | |
|---------------|-----|---|--------|-----|--------------|--|--|----|-------------|
| | | 1887. | | | | 1887. | | | |
| October 1887. | 31. | To Balance on hand October 31st, 1887..... | \$ | 181 | 19 | November 30. | Paid as per Quartermaster's statements—vouchers herewith.... | \$ | 3,676 14 |
| October 1888. | 31. | To Pay Fund for twelve months..... | 17,082 | 57 | December 31. | " " " " " " " " " " | " " " " " " " " " " | | 366 47 |
| October 1888. | 31. | To Beneficiary Fund for twelve months..... | 20,000 | 00 | 1888. | January 31. | " " " " " " " " " " | | 6,681 49 |
| October 1888. | 31. | To Quartermaster's sales for twelve months..... | 479 | 50 | | February 28. | " " " " " " " " " " | | 3,828 27 |
| October 1888. | 31. | To Insurance received from State Treasurer..... | 400 | 00 | | March 31. | " " " " " " " " " " | | 4,025 86 |
| | | | | | | April 30. | " " " " " " " " " " | | 3,495 06 |
| | | | | | | May 31. | " " " " " " " " " " | | 3,693 30 |
| | | | | | | June 30. | " " " " " " " " " " | | 3,599 49 |
| | | | | | | July 31. | " " " " " " " " " " | | 1,680 61 |
| | | | | | | August 31. | " " " " " " " " " " | | 1,010 52 |
| | | | | | | September 30. | " " " " " " " " " " | | 1,136 07 |
| | | | | | | October 31. | " " " " " " " " " " | | 4,516 49 |
| | | | | | | | By balance..... | | 433 49 |
| | | | | | | | | | |
| | | | | | | | | | \$38,143 26 |
| October 1888. | 31. | To balance..... | \$ | 433 | 49 | SUMMARY. | | | |
| | | | | | | By Salaries..... | | \$ | 10,662 34 |
| | | | | | | By Miscellaneous Cadet expenses..... | | | 4,020 80 |
| | | | | | | By Miscellaneous Academic expenses.... | | | 2,832 75 |
| | | | | | | By Merchants..... | | | 18,397 90 |
| | | | | | | By Repairs.... | | | 1,795 98 |
| | | | | | | | | | \$37,709 77 |

Respectfully submitted,

GEO. D. JOHNSTON, Superintendent.

PROSECUTION OF FEDERAL CLAIM.

The Citadel building was taken possession of by the military forces of the United States on the 18th February, 1865, and occupied as a barrack until February, 1882. From time to time unsuccessful efforts were made by the State authorities to obtain restoration of the property and compensation for its use.

On the 22d December, 1879, the following Concurrent Resolution was adopted by the General Assembly :

“Be it resolved by the House of Representatives, the Senate concurring, That the Board of Visitors of the South Carolina Military Academy be instructed and empowered, to take such steps as they in their judgment may deem best to recover from the United States Government possession of the Citadel building in Charleston, with or without compensation for rent, and if in their judgment it becomes necessary, the said Board of Visitors be authorized to employ counsel to prosecute the claim for rent for its use and occupation, and damages for the injury to said building by fire while in the possession of the Government of the United States, the services of such counsel to be paid for out of any money recovered.”

Upon the advice of our representatives in Washington as to the utility of the measure, and consultation with them as to the usual compensation in such cases, the Board of Visitors on the 19th August, 1880, entered into a contract with Caleb Bouknight to prosecute the claim to a final recovery for a compensation in case of success, and he to bear all expenses in any event.

On the 12th November, 1881, Caleb Bouknight entered into a sub-contract with T. J. Mackey, associating the latter with him in the agency for the State. This contract was communicated to, and approved by, the Board of Visitors. It is as follows :

STATE OF SOUTH CAROLINA,
COUNTY OF RICHLAND.

This agreement, entered into this 12th of November, 1881, between Caleb Bouknight of the first part, and T. J. Mackey of the second part, witnesseth : That whereas the State of South Carolina has preferred a claim against the Government of the United States for rental of the Citadel Academy at Charleston, South Carolina, and for damages done the said Academy buildings during the use and occupation of the same by the military forces of the United States, commencing in the month of August, 1865, and such occupation still continuing ; and whereas, on the 19th day of August, 1880,

the Board of Visitors of the said Academy did enter into a contract for and in behalf of the said State with the said party of the first part, empowering him to prosecute the said claim to a final recovery, agreeing to pay him therefor twenty-five per cent. on the first one hundred thousand dollars recovered of the Government of the United States; or, if a less sum be accepted by the said Board, then thirty-three per cent. of such sum over the sum of twenty-five thousand dollars, unless more than one hundred thousand dollars be obtained, and, in that case five per cent. on the excess received over one hundred thousand dollars: Now, therefore, for and in consideration of the premises hereinafter recited, and for the more speedy prosecution of the said claim, the said Caleb Bouknight does hereby make over and assign to the said Thomas J. Mackey all the rights, powers and interest which he, the said Caleb Bouknight, has under the said contract. He, the said Thomas J. Mackey, stipulating and agreeing that he will, by all just and lawful means, prosecute the said claim to a final decision before the Departments at Washington and the Congress of the United States, and will pay all expenses incident to the due prosecution of the said claim, and that the said Caleb Bouknight shall receive the amount of ten per cent. of the total sum recovered on said claim; and the Board of Visitors of the said Military Academy are hereby empowered to pay over to the said Caleb Bouknight ten per cent. of the whole amount recovered upon the final adjudication of the aforesaid claim.

Witness our hands and seals at Columbia, South Carolina, the day and year above written.

CALEB BOUKNIGHT. [L.S.]

THOMAS J. MACKEY. [L.S.]

Witness:

H. H. SHIVER.

E. S. BOUKNIGHT.

Under this contract and the recognition of the same by the Board, Mr. Bouknight ceased active effort, and Judge Mackey proceeded vigorously for a time. In February, 1882, while declining to deliver the building to the State, the War Department of the United States Government abandoned the property, and the Board of Visitors took possession of the same.

Thereafter Judge Mackey's efforts apparently relaxed, and at the annual meeting of the Board of Visitors on the 30th of October, 1884, the Chairman reporting "that he had failed to receive any report from our agents for the prosecution of the claim for rent and damages against the United States Government, to submit to the meeting,"

it was "*Resolved*, That the Chairman communicate with agents and advise them that the Board has noted with regret the slow progress made in the prosecution of the claim, and their failure to report its condition at this time, and that the Board will be forced to construe the continued laches of the agents as an abandonment of their contract."

In response to this resolution, Judge Mackey made to the next annual meeting of the Board the following report :

No. 27 CORCORAN BUILDING,

WASHINGTON, D. C., December 18, 1885.

General JOHNSON HAGOOD, *Chairman Board of Visitors*

South Carolina Military Academy.

GENERAL : I have the honor to submit the following report of the action taken in the matter of the pending claim of the State of South Carolina against the United States, for rent justly due for the use and occupation of the State Military Academy as barracks and for the storage of ordnance stores by United States troops, from the 20th day of August, 1866, to the 2d day of February, 1882. Rent was charged from the 20th day of August, 1866, as that is the official date of the termination of the war, as decided by the Supreme Court of the United States, (*United States vs. Anderson*, 9 Wallace, 56,) and up to the 2d day of February, 1882, this last being the date at which the premises were vacated by order of the Secretary of War. The rental claimed for the above stated period of fifteen years five months and twelve days is one hundred and twenty-three thousand five hundred and ninety-nine dollars (\$123,599.00), or at the rate of \$8,000 per annum.

The War Department has heretofore decided that in the absence of a specific contract the rental paid per annum for buildings occupied as barracks, &c., by United States troops shall not exceed six per cent. of the cash value of such buildings.

In this case the rental has been fixed at a fraction less than five per cent. of the appraised value of the premises, as determined by the sworn testimony of experts in the valuation of realty in the city of Charleston.

That the present status of this claim may be fully understood, and its equitable nature and the legal right of the State to the speedy payment of the same made clearly apparent, I beg leave to recite certain facts in relation thereto, together with the proceedings thus far taken by the War Department and by Congress in the premises, as shown by the official records.

The Citadel Academy at Charleston, the property of the State of South Carolina, was taken possession of by the military forces of the United States on the 18th day of February, 1865, and occupied solely and continuously by them as barracks for troops and a place of deposit for ordnance stores for a period of nearly seventeen years. It was a structure of solid masonry, situated in the heart of the city, and occupying a lot having a plane surface of 600 feet in length and 125 feet in breadth.

The building had a clear floor surface of 66,000 square feet, and, in addition thereto, 12,000 square feet of roofed veranda, capable of affording commodious quarters for six hundred (600) soldiers, with their proper complement of officers, allowing ample space for officers' headquarters, &c., and was further provided with a spacious gun shed or store room for ordnance.

The interior of the West wing was entirely destroyed by fire, originating through the negligence of certain soldiers of the garrison, on the 30th of October, 1869, the building then being occupied by the Eighth United States Infantry, Colonel John Eddie commanding.

In March, 1869, Governor Scott made application for the restoration of the Academy to the State, that it might again be used for educational purposes.

That application was refused by the Hon. Alphonso Taft, then Secretary of War, on the alleged ground that the State had been engaged in rebellion against the United States, and its title to the property had become vested in the United States by right of conquest.

The application was renewed by Governor Chamberlain in 1875, coupled with a claim for rent from February 18th, 1865, at the rate of \$10,000 per annum.

It was again refused by Hon. G. W. McCrary, Secretary of War, on the ground above stated.

On the renewal of the application by Governor Hagood in 1880, the claim was vigorously pressed by Senators Hampton and Butler, and the War Department decided to surrender the Academy to the use of the State, but only on the express conditions that the Board of Visitors should hold it as Trustees for the United States, and deliver up the same on demand of the Secretary of War, and that the State should forever waive all claims for rent and damages.

These terms were promptly rejected by Governor Hagood, the State of South Carolina declining to smirch its title by holding its own property as a tenant at will of the United States.

On the 12th day of November, 1881, I entered into a contract with the State, through the Board of Visitors of the Academy, to prose-

cute the claim for the recovery of the buildings and grounds and a reasonable rental for the use and occupation of the same.

I filed the claim in the War Department on December 10th, 1881, limiting the demand to the recovery of the Academy, but expressly declaring that the State by no means waived its right to recover a reasonable sum as justly due for the rent thereof, but reserving such claim for future adjudication.

The Hon. Robert T. Lincoln, then Secretary of War, at first declined reopening the case, but, on submission by me of a further argument, he referred the issues involved to the Bureau of Military Justice for a decision thereon.

After argument heard, that Bureau decided, on January 10, 1882, that the State of South Carolina was entitled to the immediate possession of the premises; that her title thereto was never legally divested and that the Government of the United States had no constitutional power in time of peace to dismantle the State by holding possession of its public buildings without its consent.

The Judge Advocate General further sustained my position that the State of South Carolina, as a State, was never in rebellion, but always preserved its autonomy as an integral portion of the United States, and, such being the case, to charge it with rebellion was to allege, absurdly, that the State had rebelled in part against itself.

Secretary Lincoln, on the filing of that decision, informed me that he had revolved the whole matter in his mind, and had come to the conclusion that the Government of the United States had no duty to perform in the premises; that it no longer occupied the Academy, and the State could take possession of it, or batter it down if it pleased. I invited his attention then to the fact that the Academy was being held for the United States by an Ordnance Sergeant, and that, moreover, there were some forty pieces of artillery and a number of small arms stored therein, and that the authorities of the State, having had some experience of the results of such an undertaking, might feel some delicacy about taking possession of a building occupied as an arsenal by the United States.

The Secretary then, after further consideration, sent for General H. I. Hunt, commanding the Military District in which the State was included, and who had just arrived in this city, and gave him a verbal order on January 29, 1882, to proceed to Charleston and have the ordnance stores removed from the Academy, and the building vacated without delay, but to make no formal delivery of the premises to the State authorities.

I advised Governor Hagood immediately of the order given, and arranged with General Hunt that he should notify me by telegraph as soon as he had evacuated the Academy. General Hunt, who has

always illustrated in his character the loftiest type of the officer and the gentleman, dispatched to me the promised notice on February 2, 1882, which I at once transmitted to Governor Johnson Hagood, and the State thereupon resumed possession of its Military Academy, and soon thereafter reopened the same as an educational institution, which I sincerely trust will, unlike the temple of Janus, never again be closed, either in peace or war.

Soon after the recovery of the Academy, I framed a memorial to Congress, as special attorney for the State, praying payment of the rent justly due therefor as above stated.

In pursuance of that memorial, Senator Hampton introduced a Bill into the Senate, which was promptly passed, but on reaching the House was referred, under the Rules, to the Committee on War Claims, where, despite the earnest and active efforts of Representative Dibble, who had it in charge, it was as securely sepulchred as if laid away in the tomb of the Capulets.

The Bill was accompanied by all necessary exhibits, including an excellent photograph, 15 by 12, of the Academy and grounds, executed for that purpose, on my application, by order of Governor Hagood.

In view of the delay in Congressional action, I filed the claim for rent in the War Department, and submitted an argument in support of the same, in which I urged that it should be referred to the Quartermaster General for his report as to what would be a just rental for the Academy from the 20th day of August, 1866, to the 2d day of February, 1882.

After a delay of several months, the Secretary of War notified me that he had withdrawn the papers from the Quartermaster's Department, having arrived at the conclusion that he had no authority to adjudicate such claims, and, as it was then pending before Congress, he declined to take any further action in the premises.

He also informed me, in person, that he had received information that the State authorities on taking possession of the Citadel Academy had given a banquet within its walls, at which the Government of the United States was denounced in the most violent and disloyal terms. This statement disclosed the real animus that impelled the decision of Secretary Lincoln, and I denounced it as provably false.

Had the facts been as stated by the Secretary, it could not have properly entered into the consideration of the claim of the State for the past due rent of the premises. It would have required, however, a very slight inquiry to have satisfied even Secretary of War Lincoln, whose ear is very sensitive to the influence of malicious gossip, that the alleged seditious meeting consisted only of an assemblage of the

Alumni of the Academy, who met to exchange congratulations upon the auspicious reopening of the institution, which, through adverse fortune, had been closed for nearly twenty years. Reference to the files of the News and Courier, in which the banquet was reported, shows that in its course the Government of the United States was not once alluded to. The high characters of the gentlemen who composed that assembly were alone sufficient to repel the suggestion that any of the proprieties of the occasion were violated.

Upon being informed of the conclusion of the Secretary as above stated, Senator Hampton introduced a Bill in the Senate authorizing the Secretary of War to adjust the claim of the State of South Carolina for rent alleged to be due by the United States for the use and occupation of the State Military Academy at Charleston.

That Bill passed the Senate unanimously, and, on motion of the Hon. Samuel Dibble, who has urged the settlement of this claim by Congress with untiring diligence, it was referred in the House to the Committee on Military Affairs.

I submitted an argument to the Committee on the merits of the claim, which it fully recognized, but reported adversely to the passage of the Bill, on the declared ground that the Secretary of War already possessed full legal authority to adjudicate the claim, and it was his duty to do so.

The Committee reported on the 20th of February, 1885, and was thereupon discharged from any further consideration of the Bill. On the following day I filed an application with the Secretary of War for a reconsideration of his decision declining to adjust the claim, and respectfully invited his attention to the report of the Military Committee of the House of Representatives and the action of that body in adopting the same.

He, however, still declined to take any action on the subject.

I now propose, within the next three days, to file a statement of the case with the present Secretary of War, the Hon. William C. Endicott, a just and enlightened public officer, who will discharge his duty in the premises without fear or favor, and is incapable of any act of tergiversation. I shall ask that the claim be referred without further delay to the Quartermaster General for his report as to the rental value of the premises.

Under a recent Act of Congress the head of a Department, when in doubt as to the legality of a claim, may refer it for adjudication directly to the Court of Claims.

This case, however, is perfectly clear as to the law, and all the facts are admitted.

I shall invoke the aid of our Senators to procure a speedy decision from the War Department, to the end that the necessary appropriation may be made at the present session of Congress.

I trust that the Honorable Board of Visitors of the Academy will be satisfied that the delay in the settlement of this most righteous claim is not attributable to any laches on my part, and that I shall proceed to prosecute it with all due diligence to final success.

I am, sir,

Your obedient servant,

T. J. MACKEY,
Special Attorney.

Since the reception of this paper, which was duly communicated to the General Assembly in their Annual Report next succeeding its date, the Board of Visitors have failed to receive any communication from Judge Mackey, and have had no information of effort by him in this behalf.

The claim lingered, and the address of both Messrs. Bouknight and Mackey was unknown to the Chairman, when the following letter was received :

“WARRENTON, VA., January 11th, 1888.

“Governor HAGOOD.

“DEAR GOVERNOR : I fear that Judge Mackey has lost sight of, or interest in, his duty in connection with the *Citadel Academy claim*. Latterly he does not answer any letters and cannot obtain any information about it.

“Has he made any report to you this Winter ? If so, I will be thankful if you will kindly advise me.

“My residence is near Washington, but I regret to state that I am without money to go there and look after it.

“Perhaps, at your request or solicitation, *Governor Thompson* might find time to give it a push.

“At one time the War Department was willing to pay (I believe) \$25,000 or \$30,000, and it may have been best to accept it.

“Accept kind regards and best wishes for your health.

“Very truly,

“C. BOUKNIGHT.”

The Chairman replied :

January 14th, 1888.

C. BOUKNIGHT, Esq., *Warrenton, Va.*

DEAR SIR : Your favor of 11th inst. received. The friends of the Citadel have been for some time greatly dissatisfied with the apparent efforts made by their contract agents in advancing the claim for rent

against the Federal Government. They have been repeatedly informed by members of the South Carolina delegation that Judge Mackey's connection with the claim in the present aspect of affairs at Washington does it no good; and his recent social escapade, with which the papers have been filled, gives emphasis to what the friends of the school have been told.

At the annual meeting of the Association of Graduates South Carolina Military Academy in July last, the following resolution was adopted:

“That the Board of Visitors be requested to use the most energetic measures to recover the rent due from the United States Government, and to arrange with Messrs. Bouknight and Mackey to surrender the agency of said claim upon an equitable basis.”

This resolution would have been communicated to you earlier had I known where to address it. As Judge Mackey is a sub-agent under the contract with you, (though heretofore recognized in such capacity by the Board,) and as he had, so far as the Board was informed by report or otherwise, ceased active effort for two years past, the action of the graduates has not been communicated to him. Active efforts through South Carolina Congressmen have, however, been inaugurated.

Your letter indicates your utter incapacity to give active effort toward furthering the claim, and I may say to you that after the recent scandal, to which allusion has been made, the Board, in the interest of the claim, cannot, in their judgment, accept Judge Mackey's assistance, even if his efforts, which have intermitted, should be offered to be renewed.

I have, therefore, now to bring to your attention the resolution quoted above, and to suggest that you send me a relinquishment of your agency under the contract with the Board of Visitors upon condition that when, if at all, any amount is recovered upon the claim, such a sum shall be paid you for services heretofore rendered as may, by competent arbitrators duly appointed, be deemed equitable.

I desire to say here that, in my judgment, Judge Mackey has rendered valuable service in putting the claim in shape; and I would further add that what has been written is in no unkind spirit to him. Still the progress of events and the existence of facts must be recognized.

With respect and best wishes,

I am yours truly,

JOHNSON HAGOOD, Chairman.

WARRENTON, VA., January 20, 1888.

DEAR GOVERNOR: I am willing to surrender, and now do so, my contract to collect (prosecute) the Citadel claim against the Federal Government as proposed in yours of 14th instant. Judge Mackey has not informed me for some time what progress has been made, but I do not doubt that present and energetic measures should be applied. And I doubt not that you will secure the services of a competent, active and influential person.

Judge Mackey has the contract document, which was made with me.

If you wish me to execute any further agreement in writing, please have it drawn and sent me.

As I have not kept copy of this, please file it.

I am willing to do anything I can to expedite the matter.

Very truly,

C. BOUKNIGHT.

GOVERNOR HAGOOD.

Mr. Bouknight on 25th January, 1888, was requested to communicate the foregoing correspondence to Judge Mackey, and to procure and forward his release of the agency. To this Mr. Bouknight replied by postal card: "Cannot hear from him—have written repeatedly. * * * It will be difficult to obtain his present address."

Without further reference to the agents or agency, the claim was now pushed diligently, and, through the earnest efforts of Senator Hampton, aided by Mr. Dibble in the House, and with the co-operation of their colleagues of the South Carolina delegation in both Houses, the following clause was inserted in the Deficiency Bill, passed by the late Congress:

"RENT, AND SO FORTH, CITADEL ACADEMY, SOUTH CAROLINA: To pay the amount reported as due by the Secretary of War in pursuance of the joint resolution approved August fourteenth, eighteen hundred and eighty-eight, to the State of South Carolina for rent of the Citadel Academy at Charleston, South Carolina, from August twentieth, eighteen hundred and sixty-six, to February second, eighteen hundred and eighty-two, including the sum equitably due to the said State for the loss by fire of the West wing of said building while in the occupation of the United States, seventy-seven thousand two hundred and fifty dollars: *Provided*, That this sum shall be accepted in full payment of all claims for rent, wear and tear, and injury to the property by fire, or from any other cause whatever due to the said occupancy by the United States."

The amount thus accorded in just compensation for a long deferred claim being by the terms of the appropriation payable to "the State of South Carolina," the Governor was requested to take the necessary steps for its collection and it is now in the State Treasury. The Concurrent Resolution appointing the Board of Visitors to the duty of prosecuting the claim seemed to imply its collection by them and the defraying therefrom the expenses before turning into the Treasury the net proceeds. It will now, however, as the matter stand, devolve upon the State to adjust the equitable claim of the agents employed. While falling far short of what they contracted to do, their services were certainly valuable as far as they went and they are entitled to a just compensation therefor.

ESTIMATES FOR REBUILDING, REPAIRS AND OUTFIT.

CHARLESTON, November 14, 1888.

Gen. G. D. JOHNSTON, *Superintendent S. C. M. A.* :

DEAR SIR: I have compiled the following estimate and specifications from plans furnished by Messrs. Simmons & Huger, architects :

| | |
|--|-------------|
| To erect a building on the West end of the Citadel grounds to be in size and external appearance similar to the Eastern wing | \$33,000 00 |
| The centre buildings, North and South as per plan | 2,500 00 |
| The Eastern wing to be converted into officers' quarters .. | 6,500 00 |
| A Gymnasium with all necessary appliances | 800 00 |
| Repairs to roof and parapet | 2,500 00 |
| Fixtures to library | 1,000 00 |
| Fixtures to society rooms | 800 00 |
| Fixtures to chapel | 1,500 00 |
| Fixtures to mess hall | 500 00 |
| Fixtures to section rooms | 1,500 00 |
| General repairs to building | 2,500 00 |
| | <hr/> |
| | \$53,100 00 |

Respectfully submitted by

HENRY OLIVER,
Contractor and Builder.

Crude estimates for the following work required at the Citadel Academy, as follows :

PLUMBING WORK.

To make alterations and additions as follows : To run two (2) new $1\frac{1}{4}$ water services, one from King street and one from Meeting street to properly supply building, furnish two new tanks to hold

400 gallons of water each, one to be used for kitchen and one for cadets' use on the piazzas. Alter the pipes so that each officer has a separate supply to his quarters. To furnish and place 4 new closets with tanks (washouts) in officers' quarters; this is much needed.

Increase the supply of water to cadets' water closets and urinals, and connect dry well with drain to carry off waste water; this will make the cadets' closets as perfect as any system at present known, water being all that is necessary.

To make the alterations and improvements will cost six hundred dollars.

HEATING BUILDING.

To furnish two boilers and all radiators, steam pipes, valves, ventilators and flues for either low pressure steam or for hot water system, so that a temperature of 80 degrees can be obtained when required, will cost about three thousand five hundred dollars.

RECAPITULATION.

| | |
|---------------|------------|
| Plumbing..... | \$ 600 00 |
| Heating..... | 3,500 00 |
| Total..... | \$4,100 00 |

Respectfully,

W. F. PADDON.

CHARLESTON, S. C., November 24th, 1888.

Gen. JOHNSON HAGOOD, Chairman, Barnwell, S. C.

GENERAL: I earnestly recommend an appropriation of (\$6,000) six thousand dollars for the purchase of a good library for the Academy. We have practically no library at present. The British Encyclopædia (presented by the Association of Graduates) and the Government issues sent from Washington constitute about everything on our shelves that are worth having. Books, good books, and plenty of them, are as important—indeed, are more important—to an institution of higher learning than brick and mortar.

We need books for the use of the cadets, and books for the use of the Professors; books of reference as well as for general reading, and such a collection of such books as we need and as is commensurate with the character and standing of this institution could hardly cost less than (\$6,000) six thousand dollars.

Very respectfully,

GEO. D. JOHNSTON, Superintendent.

CITADEL, CHARLESTON, S. C., November 23d, 1888.

Gen. GEO. D. JOHNSTON, *Superintendent S. C. Military Academy.*

SIR: In accordance with your wishes, I have the honor to submit the following report of the various instruments and other apparatus, with estimated prices, needed in the *Department of Mathematics and Engineering*, for its proper equipment and the better instruction of the cadets in that department, to wit.:

| | |
|--|----------|
| 4 trigonometers | \$ 11 00 |
| 2 surveyors' compasses..... | 75 00 |
| 1 plane table..... | 300 00 |
| 1 sextant and artificial horizon..... | 147 50 |
| 1 100 feet steel chain and marking pins..... | 9 50 |
| 6 steel tapes (25, 50 and 100 feet)..... | 45 50 |
| 1 semi-circular protractor (10 in. diam.)..... | 18 00 |
| 2 metallic triangular scales..... | 6 00 |
| 2 levelling-rods..... | 36 00 |
| 1 transit | 225 00 |
| 1 transit with solar attachment | 285 00 |
| 2 engineers' levels..... | 280 00 |
| 1 large roller planimeter..... | 120 00 |
| Testing machines (estimated)..... | 200 00 |
| Models and other apparatus (estimated)..... | 500 00 |
| Room fittings, cases, &c., (estimated)..... | 100 00 |

Total.....\$2,358 50

Respectfully,

WM. CAIN,

Prof. of Mathematics and Engineering.

HEADQUARTERS, S. C. M. A.

To General GEO. D. JOHNSTON, *Superintendent S. C. M. A.:*

In accordance with your wishes, I have the honor to submit to you the following report of instruments, apparatus and other equipments, with estimates of cost, needed in the department of Chemistry and Physics, in which Chemistry, Physics, Mineralogy, Geology and Astronomy are taught, for the better instruction of the cadets in the above named studies.

In Chemistry, we need a large amount of apparatus, and in the following list I give such as I have had time to look up, with prices taken from Messrs. Eimer & Amend's catalogue of New York :

| | |
|----------------------------------|---------|
| 6 acid bottles..... | \$ 2 40 |
| 6 acid bottles with pipette..... | 3 00 |

| | |
|---|---------|
| 1 porcelain dish..... | \$ 1 40 |
| 1 porcelain dish..... | 85 |
| Sprengel's air pump..... | 11 50 |
| Air thermometer..... | 40 |
| 1 alcoholometer manual..... | 25 |
| 1 alcoholometer after Berzelius | 70 |
| 1 anvil with steel hammer | 1 00 |
| 1 anvil (heavy, 20 pounds,) | 4 00 |
| 1 Marsh apparatus for arsenic determination..... | 2 20 |
| 1 apparatus for hydrogen, 9-in | 5 00 |
| 1 apparatus for hydrogen, &c., $\frac{1}{2}$ -gal | 4 00 |
| 1 carbon dioxide apparatus water, 3 pts | 5 50 |
| 1 apparatus for hydrogen and oxygen electrolytic | 4 50 |
| 1 Bunsen chlorine absorption apparatus..... | 1 00 |
| 1 absorption apparatus after D. E. Winkler (large) | 2 75 |
| 1 apparatus for volumetric determination of chlorine | 4 50 |
| 1 apparatus of lead for etching with H Fl..... | 3 00 |
| 1 apparatus for volumetric determination of oxygen..... | 15 00 |
| 1 apparatus for oxygen and hydrogen combination and decomposition | 7 50 |
| 1 apparatus for decomposition of H Cl..... | 8 50 |
| 1 apparatus for decomposition of water and ammonia (small) | 3 50 |
| 1 apparatus for showing composition of (NH ₃) ammonia... | 7 50 |
| 1 apparatus for demonstrating composition of hydrochloric acid with cylinder | 12 00 |
| 1 apparatus for showing invariability in composition of hydrochloric acid..... | 2 50 |
| 1 apparatus to show combustion..... | 6 00 |
| 1 apparatus for condensation of NH ₃ and demonstration of principles of Carre's ice machine..... | 2 50 |
| 1 apparatus for estimating melting point..... | 2 50 |
| 1 still for water, 3 gal..... | 16 00 |
| 1 apparatus for vapor density after Hoffman | 22 50 |
| 1 Kipp apparatus, 1 quart..... | 5 25 |
| 1 CO ₂ , H ₂ S, &c., apparatus as used in Bonn..... | 4 00 |
| 3 eudiometers graduated..... | 9 50 |
| 1 funnel for above..... | 1 75 |
| 1 apparatus for weighing gases..... | 7 50 |
| 1 syphon barometer and support | 15 00 |
| 1 mercury trough..... | 7 50 |
| 1 thermometer to insert in open end of barometer..... | 7 50 |
| 1 iron support for eudiometer..... | 5 00 |
| 1 tong for tubes..... | 75 |

| | |
|--|----------|
| 1 apparatus for gas analysis..... | \$ 12 00 |
| 1 Luage's gas burette..... | 5 00 |
| 1 Schiff's apparatus for N..... | 4 50 |
| 1 Victor Meyer vapor density apparatus..... | 2 00 |
| 1 apparatus for soil analysis, Schulz..... | 2 50 |
| 1 apparatus for soil analysis, Noebell..... | 4 00 |
| 1 thermostat after Reichart..... | 3 00 |
| 1 thermostat after Bunsen..... | 3 50 |
| 1 hot water funnel..... | 5 00 |
| 1 support for niveauation..... | 5 50 |
| 1 circular level..... | 2 50 |
| 1 areometer..... | 3 75 |
| 1 set of weights for above..... | 2 20 |
| Asbestos board, 1 foot..... | 1 00 |
| 1 aspirator after Magnus..... | 25 00 |
| Aspirator bottle, 2 gal..... | 2 20 |
| Aspirator bottle, 1 gal..... | 1 20 |
| 2 aspirator bottles, narrow outlet..... | 3 10 |
| 1 iron attachment for stand, 9 pieces..... | 2 60 |
| 1 balance with mahogany case, &c..... | 20 00 |
| 1 Jolly's spiral balance for sp. gr..... | 17 00 |
| 1 Mohr's sp. gr. balance..... | 20 00 |
| 1 balance for sp. gr. of liquids..... | 25 00 |
| 1 set of weights, from 50 grains, very fine..... | 16 00 |
| 1 set of weights, from 1,000 grains..... | 8 00 |
| 1 balloon of collodion..... | 1 00 |
| 2 balloons of glass for weighing gases..... | 3 30 |
| 2 balloons of glass with stopcock..... | 3 00 |
| 1 balloon of rubber with stopcock..... | 1 85 |
| 1 barometer, U. S. standard..... | 40 00 |
| 1 aneroid barometer..... | 6 00 |
| 1 barometer tube with steel stopcock..... | 2 00 |
| 1 glass balloon for sp. gr. of vapor..... | 75 |
| Grenet's battery..... | 8 50 |
| Galvanic battery, 4 cells..... | 10 00 |
| Bunsen's battery, 6 cells..... | 9 00 |
| Electric apparatus, about..... | 50 00 |
| Glassware, beakers, flasks, &c..... | 50 00 |
| Blowpipe and stand..... | 15 00 |
| Blowpipe for students, 30..... | 60 00 |
| Anvils, &c., for mineralogical work..... | 35 00 |
| Oxyhydrogen blowpipe..... | 8 00 |
| Bottles, glass stoppers for all purposes, about..... | 50 00 |

| | |
|---|------------|
| Graduated glassware, about..... | \$100 00 |
| Bunsen's burners, all kinds, about..... | 50 00 |
| Calorimetric carbon test..... | 10 00 |
| Porcelain ware, about..... | 50 00 |
| Iron clamps of all kinds..... | 15 00 |
| Wooden stands..... | 15 00 |
| Combustion furnace..... | 40 00 |
| Photometer, simple..... | 35 00 |
| Platinum ware, crucible dish, spatula wire and gauze..... | 100 00 |
| Spectroscope..... | 90 00 |
| Set of tools..... | 50 00 |
| Microscope, including lenses..... | 100 00 |
| | <hr/> |
| | \$1,432 65 |

The above list is what was found necessary in about one-third of Messrs. Eimer & Amend's complete catalogue of chemical apparatus, so, as I have not time to go over the whole, I will take this as a fair basis to make an average on, and, considering the fact that some of the more expensive pieces are taken account of, it will take about (\$3,000) three thousand dollars to get sufficient apparatus to put the department in good condition as far as apparatus is concerned.

The following are the costs roughly estimated of the collection of specimens taken from Schuchardt's catalogue (of Goeliz, Germany) :

| | |
|--|----------|
| Collection of elements..... | \$ 80 00 |
| Collection of preparations, inorganic..... | 100 00 |
| Collection of preparations, organic..... | 80 00 |
| Collection 16 fluorescent solutions..... | 8 00 |
| Collection 18 preparations for spectroscope..... | 6 00 |
| Collection of alkaloids, 72..... | 20 00 |
| Collection of coal tar colors..... | 25 00 |
| Physiological collection, animal kingdom..... | 15 00 |
| Physiological collection, vegetable kingdom..... | 15 00 |
| | <hr/> |
| | \$349 00 |
| Collection of manufactured articles about..... | 300 00 |
| Chemicals for use in lectures..... | 200 00 |
| | <hr/> |
| | \$849 00 |

MINERALOGICAL DEPARTMENT.

| | |
|---|---------|
| Collection of crystal models of glass for lectures..... | \$30 00 |
| Crystal models of wood..... | 50 00 |
| Imitation jewels..... | 30 00 |
| Imitation 15 celebrated diamonds..... | 10 00 |
| Imitation 4 largest diamonds..... | 4 00 |

COLLECTION OF MINERALS.

| | |
|---|--------|
| 1,000 specimens..... | 300 00 |
| Scale of hardness..... | 5 00 |
| Scale of fusibility..... | 2 00 |
| Collection of 108 minerals for blowpipe | 5 00 |

\$436 00

APPARATUS FOR MINERALOGICAL DEPARTMENT.

| | |
|--|--------|
| 3 hand goniometers..... | 30 00 |
| Magnifier | 2 00 |
| Microscope and appliances..... | 200 00 |
| 3 lenses | 10 00 |
| Wollaston's reflecting goniometer..... | 25 00 |
| Other apparatus, about..... | 50 00 |

\$317 00

I might remark that what I have mentioned here under mineralogical apparatus are all of simplest forms, and therefore many pieces of very expensive apparatus I have not mentioned; for example, apparatus for measuring optical axes of crystals, &c., costing about \$100.00.

GEOLOGICAL COLLECTION.

| | |
|---|----------|
| 600 specimens of rocks found in fields..... | \$150 00 |
| 1,000 specimens of petrification..... | 250 00 |
| 1,000 geological and paleontological specimens..... | 250 00 |

\$650 00

PHYSICAL DEPARTMENT.

As I have been unable to obtain any catalogue of physical apparatus, it is impossible to give anything like an accurate estimate. However, I have obtained the cost of a few articles, which I will enumerate here :

| | |
|---|----------|
| 1 box resistance coils..... | \$50 00 |
| 1 Wheatstone bridge..... | 50 00 |
| 2 galvanometers..... | 10 00 |
| 1 electrometer..... | 75 00 |
| 1 ampere metre..... | 15 00 |
| 1 volt metre..... | 20 00 |
| 1 dynamo (hand power)..... | 100 00 |
| 6 incandescent lamps..... | 9 00 |
| 1 arc lamp..... | 8 00 |
| 1 Toepler Holz machine..... | 30 00 |
| Geissler & Crook's tubes..... | 20 00 |
| 6 Daniell's cells, 1 quart each..... | 15 00 |
| 6 Bunsen cells, 1 quart each..... | 15 00 |
| 1 mirror galvanometer..... | 75 00 |
| Thermopile..... | 5 00 |
| Battery for lecture purposes..... | 6 00 |
| Induction coil..... | 50 00 |
| Mercury..... | 10 00 |
| Keys and commutators..... | 10 00 |
| Zinc and copper..... | 2 00 |
| Tools, corks, wire, glass, rubber tubing, &c..... | 50 00 |
| Balance with weights..... | 60 00 |
| Spring balance for gross weighing..... | 8 00 |
| 3 Bunsen burners..... | 4 00 |
| 3 thermometers..... | 4 50 |
| 3 hygrometers..... | 1 50 |
| 6 specific gravity bottles..... | 60 |
| Richard's aspirator..... | 2 50 |
| Vernier gauge..... | 20 00 |
| Micrometer gauge for wire..... | 5 50 |
| Wire gauge (B. & S.)..... | 4 00 |
| Lenses..... | 8 00 |
| Prisms..... | 8 00 |
| Barometer..... | 12 00 |
| Heliostat..... | 15 00 |
| Apparatus for projections..... | 10 00 |
| | <hr/> |
| | \$788 60 |

Messrs. Eimer & Amend give a list of physical apparatus in the back of their catalogue which contains only a few of the above named, so I will add the following :

| | |
|--------------------------|----------|
| Mechanics | \$63 95 |
| Hydrodynamics | 37 80 |
| Pneumatics..... | 60 20 |
| Heat..... | 27 60 |
| Acoustics..... | 43 75 |
| Optics | 31 95 |
| Electricity..... | 56 55 |
| Magnetism | 70 50 |
| Boxing and packing | 7 50 |
| | <hr/> |
| | \$399 80 |

The lists given here are very incomplete and I should say that (\$3,000) three thousand dollars would be a small sum to fit up the Physical Department.

You have asked me to give an estimate as to the cost of fittings in lecture rooms and rooms for collections.

| | |
|---|------------|
| Two lecture tables, with pneumatic troughs..... | \$ 300 00 |
| Cases for mineralogical and geological specimens, I should say | 500 00 |
| Preparation room fittings and cases..... | 200 00 |
| Fittings in Mineralogical lecture room, tables to accommodate students in working with blow pipe, with gas fittings and chairs..... | \$100 00 |
| | <hr/> |
| | \$1,100 00 |
| Cases for physical apparatus..... | 200 00 |
| | <hr/> |
| | \$1,300 00 |
| Telescope | 1,000 00 |
| Tellurian globe, maps and charts for geographical instruction, charts showing cross-section of strata, &c. | 100 00 |

SUMMARY.

| | |
|---|-------------|
| Chemical apparatus as enumerated..... | \$ 1,432 65 |
| Chemical apparatus not enumerated..... | 1,567 35 |
| Chemical preparations for collections and for use in lectures..... | 849 00 |
| Mineralogical department collection..... | 436 00 |
| Mineralogical apparatus..... | 317 00 |
| Geological collection..... | 650 00 |
| Physical apparatus as enumerated..... | 788 60 |
| Physical apparatus as enumerated..... | 399 80 |
| Physical apparatus not accurately estimated, but easily provided..... | 1,500 00 |

| | |
|---------------------------------------|--------------------|
| Fittings | \$ 1,300 00 |
| Telescope..... | 1,000 00 |
| Materials for physical geography..... | 100 00 |
| Total..... | <u>\$10,340 30</u> |

The above is a summary of the whole estimate, and the result I find to be \$10,340.30. In other words, about \$10,000 will probably enable us to fit up the Physical Science Department as well as one could expect in an institution of this grade.

Very respectfully submitted,

CHAS. L. REESE, Ph. D.,

Major and Professor of Chemistry and Physics.

CITADEL, November 23d, 1888.

General GEO. D. JOHNSTON, *Superintendent*.

SIR: In accordance with your wishes, I have the honor to submit herewith a report of the materials and instruments necessary for the proper equipments of the Department of Drawing and Bookkeeping. I have affixed the prices of the articles as given in Kenffel & Essen's (127 Fulton street, New York,) catalogue; and the numbers preceding each article also refer to that catalogue.

| No. | ARTICLE. | PRICE. |
|----------|---|----------|
| 242 | Blue print frame and tray (246)..... | \$ 14 50 |
| 245 | Blue print frame and tray (249)..... | 53 00 |
| 230 | 100 yds. Heliss paper for blue process..... | 14 00 |
| | 2 quires cross-section paper..... | 10 00 |
| 580 | 1 box insts..... | 43 50 |
| 458 | 1 pair bow-spring dividers..... | 8 25 |
| 463 | Set of 3 spring dividers (for minute work)..... | 8 70 |
| 697 | Railroad pen..... | 4 50 |
| 696 | Improved curve pen..... | 1 75 |
| 733 | Proportional dividers.... | 11 00 |
| 1104 | Planimeter.. | 33 00 |
| 1126 | Pantagraph..... | 60 00 |
| 1156 | Section liner..... | 5 00 |
| 1210 | German silver protractor..... | 45 00 |
| 1583 | Set of 8 ivory scales..... | 19 25 |
| 1740 | Thacher's calculating instrument..... | 30 00 |
| 1762 | Rolling parallel ruler..... | 7 50 |
| 1725-7-8 | Irregular curves..... | 3 75 |

| No. | ARTICLE. | PRICE. |
|-----------|---|------------|
| 2007-8 | Metal triangles..... | \$ 18 50 |
| 2030 | Steel straight edges | 33 00 |
| 2050 | Steel T-square..... | 8 00 |
| 2220 | Universal railroad curve | 15 00 |
| 2450 | Centrolinead | 12 50 |
| 2701 | Paper cutter, No. 5240, Pocket sextant..... | 43 10 |
| 2949 | Water colors, brushes and crayons | 20 40 |
| 1825-7-9 | Hard rubber ellipses, hyperbolas and parabolas, | 9 25 |
| 5420-70 | Prismatic compass and compass with clinometer, | 38 25 |
| 5762-3 | Rectangular prism (90°), and double prism (90° and 45°). | 15 00 |
| 5806-5900 | Clinometer and Aneroid | 42 00 |
| 6901 | Pedometer ; No. 5700, Locke's hand level. | 15 25 |
| 5270 | Sun dial, No. 5950, Anemometer..... | 34 50 |
| | Models for descriptive geometry, (estimated)... | 200 00 |
| 6361 | U. S. S. Meas. rod No. 6364, Metric meas. rod.. | 25 00 |
| 6512 | Tape (100 ft.); 6605, do. (25 ft.); 6780, do. (5 ft.) | 17 80 |
| 6910 | Odometer, 6790, Magnifying glass | 18 00 |
| | 2 doz. double inkstands; 2 doz. ebony round rulers | 32 00 |
| | Frames for drawings | 50 00 |
| 2587 | Upright drawing table..... | 50 00 |
| | Total..... | \$1,070 25 |

Respectfully submitted,

O. J. BOND,

Lt. and Ass't Prof. in Charge Drawing.







