5-1-1969

Clemson Commencement Program, May 1969

Clemson University

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Order of Exercises
11 A. M. Littlejohn Coliseum

Selections by the University Band

Academic Procession
(Audience will please stand and remain standing for the invocation)

Invocation
The Reverend W. Eugene Copenhaver
Pastor, University Lutheran Church
Clemson, South Carolina

Address to Graduating Class
Mr. Jenkin Lloyd Jones
Editor and Publisher, Tulsa Tribune
Tulsa, Oklahoma

Authorization by the Board of Trustees
The Honorable Edgar A. Brown
President, The Board of Trustees

Conferring of Degrees and Delivery of Diplomas
Dr. Robert C. Edwards
President, Clemson University

Alma Mater

Benediction
(Audience will please be seated as graduates march out)

Music by the University Concert Band
Dr. John H. Butler, Director of Bands
Historical Statement

Clemson University is named for Thomas Green Clemson (1807-1888), who left the bulk of his estate to the State of South Carolina for the founding of the institution.

Thomas Clemson was born in Philadelphia in 1807 and educated at the Royal School of Mines in Paris (1828-1832). His early profession was that of a mining engineer; but circumstances diverted his interests into politics and the life of a Southern Planter, and he soon became an enthusiastic advocate of scientific agriculture. He had a career as a diplomat (charge d'affaires to Belgium, 1844-1852), and served as the first superintendent of agricultural affairs in Washington (1860). As a scientist he published numerous articles in the fields of mining, chemistry, and agriculture. His varied activities included his assistance in the founding of the Maryland Agricultural College, his support of the Morrill Act, his leadership in South Carolina after the Civil War, and his part in the founding of Clemson University.

Thomas Clemson was the son-in-law of South Carolina's John C. Calhoun, a political figure of national importance during the first half of the nineteenth century. Mr. Calhoun's home, Fort Hill, is preserved on the Clemson campus as a national shrine.

The academic program at Clemson College began in 1893 with an enrollment of 446. The first "college prospectus" announced only two four-year curricula, supplemented by two two-year preparatory courses. Today the University has eight major academic units. These are the College of Agriculture and Biological Sciences; the School of Architecture; the College of Arts and Sciences; the School of Education; the College of Engineering; the School of Industrial Management and Textile Science; the School of Nursing; and the Graduate School.

The institution is an accredited member of the Southern Association of Colleges and Schools; various curricula are accredited by the Engineers' Council for Professional Development, the American Chemical Society, the National Architectural Accrediting Board, and the Society of American Foresters.

Clemson is a Land-Grant Institution. As such, it is engaged not only in its primary academic program, but does extensive research at the main campus and at five agricultural experiment stations located in the state. The University is also heavily committed to a varied program of public service, including the work of agricultural extension which has professional personnel located in each of the state's counties.
## CANDIDATES FOR ASSOCIATE AND BACHELORS' DEGREES

### COLLEGE OF AGRICULTURE AND BIOLOGICAL SCIENCES

#### BACHELOR OF SCIENCE DEGREE

##### Agricultural Economics

- Jonathan Leroy Bauer  
  Andrews
- John Joseph Branton  
  Seneca
- Stephen Lundy Chryst  
  Conway
- Joseph Charles Dowsey  
  Aynor
- Charles Russell Holland  
  Clinton

**Agronomy**

- John Thomas Bozard  
  Cameron
- Richard Gaines Dobbins  
  Townville
- Delano Van Fraley  
  Florence

##### Animal Science

- Thomas Elliott Bonnette, Jr.  
  Orangeburg
- Daniel Andrew Durfes  
  Fair Lawn, N. J.
- Gary Martin Hill  
  Flat Rock, N. C.

##### Dairy Science

- Sarah Thomas Bierley  
  Lancaster
- Norman Leslie Burch, Jr.  
  Lake City
- John Emmett Cely  
  Columbia
- Charles Hill Courtney III  
  Albemarle, N. C.
- Gerald Lyn Culler  
  Orangeburg
- John Stephen Culp  
  Fort Mill
- Glen Gordon Daves  
  Summerville
- Thomas Wayne Ferguson  
  Graniteville
- Joseph David Gangemi  
  Arden, Del.
- William Kenneth Glenn, Jr.  
  Starr
- Aubrey Jay Gore, Jr.  
  Conway
- Tommy Monroe Hall  
  Vaughtuse
- Thomas Marion Hill  
  Union

##### Food Science

- George Richard Cornwell  
  Lattimore, N. C.

##### Forestry

- James Patrick Bradley  
  Albany, Ga.
- Gerald Eugene Brockenfelt  
  Charleston
- Robert Jordan Counts  
  Ocala, Fla.
- John Douglas Koch  
  Jenkins, Tenn.
- Robert Earle Lee, Jr.  
  Barnwell
- Michael William Leonard  
  Poughkeepsie, N. Y.

##### Horticulture

- Stiles Mikel Harper, Jr.  
  Estill
- Ronald Allison McDaniel  
  Edgefield

##### Poultry Science

- James Robin Foy  
  Newberry
- Henry Tutt Hahn  
  Greenwood

**SCHOOL OF ARCHITECTURE**

#### BACHELOR OF ARTS DEGREE

##### Pre-Architecture

- Philip Washington Fairey III  
  Columbia
- William Norton Skardon  
  Spartanburg
**BACHELOR OF ARCHITECTURE DEGREE**

<table>
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<tr>
<th>Name</th>
<th>Degree</th>
<th>Location</th>
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<tr>
<td>James Tremel Allen</td>
<td>BACHELOR OF ARCHITECTURE</td>
<td>Spartanburg</td>
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<tr>
<td>Philip Lester Anderson</td>
<td>BACHELOR OF ARCHITECTURE</td>
<td>North Augusta</td>
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<tr>
<td>Wade Hamilton Barber</td>
<td>BACHELOR OF ARCHITECTURE</td>
<td>Pickens</td>
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<td>Ronald Pirth Beck</td>
<td>BACHELOR OF ARCHITECTURE</td>
<td>Orlando, Fla.</td>
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<td>John Anthony Blackburn</td>
<td>BACHELOR OF ARCHITECTURE</td>
<td>Kingsport, Tenn.</td>
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<td>Richard Albert Compton</td>
<td>BACHELOR OF ARCHITECTURE</td>
<td>Falls Church, Va.</td>
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<td>Clarence Wayne Crocker</td>
<td>BACHELOR OF ARCHITECTURE</td>
<td>Union</td>
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<td>Harold Eugene Davis, Jr.</td>
<td>BACHELOR OF ARCHITECTURE</td>
<td>Memphis, Tenn.</td>
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<td>Cecil Meredith Drakeford, Jr.</td>
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<td>Garry Franceschi</td>
<td>BACHELOR OF ARCHITECTURE</td>
<td>Vineland, N. J.</td>
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<td>Harry Charles Harritos</td>
<td>BACHELOR OF ARCHITECTURE</td>
<td>Savannah, Ga.</td>
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<td>John Darnell Hartley</td>
<td>BACHELOR OF ARCHITECTURE</td>
<td>Rockville, Md.</td>
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<td>Sallie McKenzie Jackson</td>
<td>BACHELOR OF ARCHITECTURE</td>
<td>Myrtle Beach AFB</td>
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<td>Thomas Clark Mozen</td>
<td>BACHELOR OF ARCHITECTURE</td>
<td>Decatur, Ga.</td>
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<td>David Leon Narramore</td>
<td>BACHELOR OF ARCHITECTURE</td>
<td>Greenville</td>
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<td>Kenneth Thomas Ricket</td>
<td>BACHELOR OF ARCHITECTURE</td>
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<td>Thomas Wesley Salmons III</td>
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<td>James Schettino</td>
<td>BACHELOR OF ARCHITECTURE</td>
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<td>Roger Norris Simmons</td>
<td>BACHELOR OF ARCHITECTURE</td>
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<td>Fayette Louis Sims</td>
<td>BACHELOR OF ARCHITECTURE</td>
<td>Reading, Pa.</td>
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<td>Llewellyn Richard Stephens</td>
<td>BACHELOR OF ARCHITECTURE</td>
<td>Greenville</td>
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<td>Kenneth Edward Wheelchel</td>
<td>BACHELOR OF ARCHITECTURE</td>
<td>Gaffney</td>
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<tr>
<td>James Albert Yarbrough</td>
<td>BACHELOR OF ARCHITECTURE</td>
<td>Miami, Fla.</td>
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**BACHELOR OF SCIENCE DEGREE**

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<th>Major</th>
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<tr>
<td>James Tremel All en</td>
<td>BACHELOR OF SCIENCE</td>
<td>Building Construction</td>
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<tr>
<td>Allen</td>
<td>BACHELOR OF SCIENCE</td>
<td>Sanatoga, Pa.</td>
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<td>James Michael Brittain</td>
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<td>Spartanburg</td>
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<td>Ernest Clifton Brown, Jr.</td>
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<td>Sumter</td>
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<td>Langdon Hastings Dinkins</td>
<td>BACHELOR OF SCIENCE</td>
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<td>Robert Dexter Frey, Jr.</td>
<td>BACHELOR OF SCIENCE</td>
<td>Lancaster, Pa.</td>
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<td>Ronald Wayne Garner</td>
<td>BACHELOR OF SCIENCE</td>
<td>Gaffney</td>
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<td>Charles Rucker Hipp, Jr.</td>
<td>BACHELOR OF SCIENCE</td>
<td>Spartanburg</td>
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<tr>
<td>Larry Reed Kendall</td>
<td>BACHELOR OF SCIENCE</td>
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<tr>
<td>Donald Gene Lesley</td>
<td>BACHELOR OF SCIENCE</td>
<td>Easley</td>
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</tbody>
</table>
Mathematics

*** Philip George Buckhiester ______ Piedmont
Samuel Livingston Callicott, Jr. ______ Ninety Six
*** John Richard Cramer ______ Anderson
Tillman Wingfield Derrick, Jr. ______ Fort Mill
* Daniel Edgar Duncan ______ Pageland
* Wade Hardie, Jr. ______ Spruce Pine, N. C.
Charles Irving Houston, Jr. ______ Charleston
Jeffrey Jerome Lapin ______ Charleston
Thomas Edward McClendon ______ Riverdale, Ga.

Robert Wellington Blackwell ______ Travelers Rest
* George Thomas Fabian ______ Charleston
** Waenard Livingston Miller, Jr. ______ Greenville
William Joel Millsap ______ Easley

Lewis William Goldstein ______ Spartanburg
Jerome Barlow Degen ______ Sumter

John Julian Abbott ______ Sumter
Rebecca Ballard ______ Easley
David Michael Ballenger ______ Charleston
* Carl Timothy Besess ______ Baltimore, Md.
William Earl Bishop Jr. ______ Greenville
* Edsel Dean Blair ________ Greenville
* Horace William Bonekat ______ Broomall, Pa.
Frank Templeton Brown ______ Laurens
Lewis Earle Brown ______ Ehrhardt
* Max Vincent Bryant ______ Sumter
John Elliott Carder ________ Front Royal, Va.
James McCown Carroll ______ Florence
* Joseph William Cullem ______ Allendale
Brian Samuel Dantzler ________ Cameron
Jerome Barlow Degen ________ Sumter
* William Lee Dobbins, Jr. ______ Anderson
* Edward Macdonald DuBose, Jr. ______ Oswego
John Frank Ellenburg, Jr. ________ Spartanburg
Lewis Goldstein ______ Spartanburg

Physics

Burnett Alexander Pettit, Jr. ______ Baltimore, Md.
* James Daniel Phillips ________ Greenville
*** Charles Garrison Shirley, Jr. ______ Greer
Ronald Eugene Speer ______ Abbeville

John Albert Woods ________ Syosset, N. Y.

SCHOOL OF EDUCATION

BACHELOR OF ARTS DEGREE

Elementary Education

Sharon Joan Carrington ______ Greenwood
Martha Ann Dobbins ______ Fountain Inn
Cheryl Smock Fox ________ Yangoes Island
Jo Ellen Gill ________ Walhalla
Margaret Ann Knight ________ Williamson
Mary Ellen Knight ________ Greenville
* Jane Cobb Lane ________ Clemson
Nancy Elizabeth Mills ________ Greenville

* Virginia Elizabeth Carroll ______ Augusta, Ga.
Sara Elizabeth Chapman ________ Pelzer
Robert Milton Crain ________ Greenville
* Edward Wallace Dickerson, Jr.
Kitty Sue Dill ________ Greenville
Constance Louise Gilstrap ________ Brevard, N. C.
* Patricia Anne Heller ________ Sandy Springs
Edward Parker Holliday ________ Central
** Barbara Ann Hudgens ________ Greenwood
Carrell Anne Hunter ________ Charlotte, N. C.
* Laura Rogers Johnson ________ Clio
William Ludwig Lacher ________ Greenville
* Linda Jean Lanham ________ Clemson

Peggy Huckaby Mellichamp ________ Toccoa, Ga.
* Sandra Harper Mercer ________ Copperhill, Tenn.
* Linda Currin Miller ________ Greenville
James Fredrick Reames, Jr. ________ Bishopville
Rutland Edward Riddle ________ Greenville
Patricia Ann Seawright ________ Anderson
* John Kelley Segars ________ Bishopville
Russell Edward Stiegel, Jr. ________ Charlotte, N. C.
* Stanley Hanks Thompson ________ Clemson
John Fletcher Townsend, Jr. ______ Bennettsville
Gary Russell Warner ________ Salamanca, N. Y.
Julian Ray Wates ________ Grover
John Albert Woods ________ Syosset, N. Y.

Suzanne McCown Moore ________ Anderson
Linda Gail Prichard ________ Westminster
Helen Grace Smith ________ Lancaster
*** Maryann Stackman ________ Columbia
* Gloria Elizabeth Tate ________ Anderson
Gloria Jean Thrasher ________ Anderson
Olivia Hayes Williams ________ Rock Hill
BACHELOR OF SCIENCE DEGREE
Agricultural Education

(Agricultural Education is jointly administered by the College of Agriculture and Biological Sciences and the School of Education.)

* Harry Max DuBose Myrtle Beach
Donald Daniel Durham Piedmont
John Charles Horton Kershaw
John Thomas Meehan, Jr. Pendleton

James Walker Painter Chesnee
Willie Durant Sansbury Conway
James Thomas Shell Fountain Inn
* Walley Anson Turner Florence

Industrial Education

* Steward Lynwood Baylor Kingstree
Eber Johnson Blackwood Inman
John Douglas Edwards Spartanburg
Gary Earl Gerhold Pittsburgh, Pa.
William White Gregory III Inman
Norman Anthony Howard Landrum
David Guy Jackel West Mifflin, Pa.
Gerald Morris Jennings Ware Shoals
Roger Dayle Jolley Columbus, N. C.
Odious Odell Knight II Spartanburg

Micah John LaRocche III Wadmalaw Island
Ray Ernest Linke West Orange, N. J.
Milledge Galpin Murray North Augusta
Charles William Patterson, Jr. Simpsonville
Paul Joseph Posch Delran, N. J.
Albert Richard Reid Greenville
William Johnson Stevens, Jr. Yorges Island
Richard Marvin Tucker Enoree
Ronald Earl Whitmire Marietta

Recreation and Park Administration

Philip David Ackerman St. George
Helen Louise Bunch Suffolk, Va.
Marshall Jethro Coleman, Jr. Darlington
Robert Thomas Dennis Rembert
Lamar Herman Enright Liberty
Eleanor Dion Fairley Summerville
Edward Eric Freti, Jr. Lakewood, N. J.
Robert Wesley Isemhour Salisbury, N. C.
William Thomas Kissam Statesville, N. C.
Alan Willis Kuester Charlotte, N. C.
John Garnett Lawton York
John Crawford Lynn Dillon

Tom Lee Murrell, Jr. Kingsport, Tenn.
Alvin Benjamin Phillips, Jr. Graniteville
Barry Carroll Robinson Augusta, Ga.
Bruce Thomas Rush Camden
Curtis Alan Shirer Anderson
Marion Jackson Smith, Jr. West Columbia
Terrel Parker Spence Charleston
Craig Mercer Thomas Georgetown
Ronald Adrian Thrower Mt. Holly, N. C.
Robert Logan Wilder, Jr. Sumter
Rosalind Marie Wright Gastonia, N. C.

Science Teaching

Karen Robey Benedict Clinton, Md.
James Michael Blackwell Gaffney
* Becky Scott Carlton Mullins
Richard Lee Collman Knoxville, Tenn.
Patricia Ellen Greenfield Clemson

Helen Frances Hawkins Central
Allen Marc Levine Passaic, N. J.
Betty Chloe Lynn Greenville
Michael Thomas Voiselle Fairfield, Calif.

COLLEGE OF ENGINEERING

BACHELOR OF SCIENCE DEGREE

Ceramic Engineering

Harry Patterson Adams Saluda
John McKay Burns Macon, Ga.
James Gary Childress Greenville

Wayne Fulmer Addy Columbia
Hugh Cook Brown, Jr. McCormick
William Harold Bruggeman Savannah, Ga.
** Charles David Cooper Winter Park, Fla.
David George Dempsey Spartanburg
Marion Rollins DeWitt, Jr. Darlington
** Richard Gready Fessler Charleston
Joseph Judkins Forbes Birmingham, Ala.
James William Hannah Greer
* Howard Michael Herron Dallas, Texas
Don Keith Johnson Simpsonville
* Gary McDaniel Johnson Greenville
* Michael Alan Lake Jamestown
* David Randall Mayfield Anderson

William Anthony Meister Union City, N. J.
* Charles Norman Wilson Worthington, Ohio

Chemical Engineering

Jack Harris Mitchell III Clemson
* Michael William Osborne Camden
Owen Charles Robertson, Jr. Bowersville, Ga.
George Christopher Rodrigues Fayetteville, N. C.
** James Edward Salamony Summerville
Ronald Edward Steele Knoxville, Tenn.
* John Nixon Talbert, Jr. McCormick
Henry Wedemeyer Thellung, Jr. Charleston
** Allan James Thompson, Jr. Charleston
Ray Morgan Thompson Memphis, Tenn.
Richard Clark Walker Pittsburgh, Pa.
Civil Engineering

Richard Allen Albers ............ Mt. Pleasant
Neil Robert Baer ................. Edgewater, Md.
John William Beeson ............ Liberty
Ronnie Joe Catco ................. Kershaw
Robert Martin Dunlin, Jr. .... Bowling Green
Paul Curtis Eckard, Jr. ........ Connelly Springs, N.C.
David Carmichael Fischetti ...... Brooklyn, N.Y.
* William Jennings Ford, Jr. .. Charleston
* Oscar James Gilstrap .......... Seneca
David Charles Harris .......... North Charleston

Charles Barry Huckaby ........... Toccoa, Ga.
* Anderson Mille Kinghorn, Jr. .. Beaufort
James Bigland Kinghorn, Jr. ... Beaufort
* Robert Francis Martin ........ Greenville
James Michael Roach ............. Oklahoma City, Okla.
Douglas Randolph Rucker ........ St. Matthews
* Clark Aaron Smith ............. Madison
Dudley Dunwody Stone .......... Atlanta, Ga.
Steven Bradley Tipping .......... Salamanca, N.Y.
Gary J. Ziegler ................. Columbus, N.J.

Electrical Engineering

Earl Lewis Belcher, Jr. .......... Aiken
** David Monroe Bell .......... Hartsville
* David Blanchard Bullard ...... Jackson
William Allen Crumpler .......... Myrtle Beach
William Rowley Dill, Jr. ...... Greenville
Terence Mitchell Essler ........ Greenwood
Lyle Wilson Fairey, Jr. .......... Orangeburg
John Edward Frederiksen ......... Toms River, N.J.
Donald Carl Fulmer .............. Waguener
Michael John Hillyer .......... Asheville, N.C.
* Howard McDonald Jones ...... Greenville
James William Jones, Jr. ........ Travelers Rest
* Philip Ervin Law .............. Columbia
* Robert Edward Lemaack ...... Charleston

* William Edward Miller .......... Neptune Beach, Fla.
** Steve Julius Mitchem .......... Wellford
* Felix Joseph Nepveux IV ........ Charleston
Edward Dominick Nicastr .. Orange City, Fla.
David Cummings Nubickel, Jr. ... Winter Park, Fla.
William Jeffrey Smith .......... Newberry
Edward Raney Stokes ............ Beaufort
Charles Weldon Street, Jr. ...... Florence
** James Everett Thomas .......... Williamston
Dibbon Keith Walters III .......... Charleston

Industrial Engineering

James Alan Doss ................. Chattanooga, Tenn.

Paul Jerry Barraco .............. Clintondale, N.Y.
Robert Coleman Blair, Jr. ......... Columbia
* James Edward Caldwell, Jr. .... Belton
Julian Walter Davis II ........ Westminster
Bruce Miller Dixon .............. Clinton
** Alan Ray Franklin .......... Anderson
David Neal Gay .................. North Augusta

James Manly Harbin III ........ Greenville
Donald Ray Kennedy .......... Woodruff
William Martin Orr .......... Greenville
*** Donald Bisell Pounder ...... North Charleston

Metallurgical Engineering

Roy Charles Dunham .......... Poughkeepsie, N.Y.
** Joseph Daniel Pickling ....... Lancaster

Arthur Kenneth Fox ........ Adams Run

SCHOOL OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE

BACHELOR OF ARTS DEGREE

Arts and Sciences

James Clyde Addison, Jr. ......... Allendale
Alman Lamar Buckalew .......... Columbia
Jerry Zack Campbell .......... Landrum
James Glenn Cantrell .......... Greenville
Robert Newton Church .......... Travelers Rest
Robert Barnwell Clarkston II ... Sumter
James Paul Cromer, Jr. ........ Sumter
Henry Grady Denton, Jr. ......... Lancaster
Gordon Ray Edgin ............... Acton, Mass.
Charles Darrick Ehredige ......... Charleston
James Allen Ferguson, Jr. .. Anderson
* Jamile James Francis, Jr. .... Greenville
Donald Charles Frost, Jr. .... Macon, Ga.
Alan Goldfarb ................. Miami Beach, Fla.
Merritt Riggs Goodman, Jr. .. Burlington, N.C.
David Smith Humberd .......... Cleveland, Tenn.

Arthur Welling LaGrone, Jr. .... Greenville
Henry Dean McAllister, Jr. .... Barnwell
Marion Lee Manning .......... Calhoun Falls
* Larry Swain Merck .......... La France
Robert Arthur Moffatt .......... Anderson
Lawrence Terry Owen .......... Brevard, N.C.
Jonathan Henry Owings .......... Greenville
Richard Lee Roche .......... Gaffney
Frank Randall Schmidt .......... New Hyde Park, N.Y.
Richard Brevard Skilton .... Maitland, Fla.
Grover Clyde Stewart, Jr. .... Anderson
Joel Allen Stron .......... North Augusta
* Milton Allen Toole .......... Greenville
Walter McGee Welch, Jr. .... North Charleston
Thomas Asbury Wilson .......... Anderson
BACHELOR OF SCIENCE DEGREE

Industrial Management

Vernon Wayne Andis ........................ Mauldin
Sam Morgan Barfield, Jr. ..................... Seneca
Richard Preston Black ....................... Anderson
Ronald Lee Blasco .......................... Bronx, N. Y.
Norman Kevin Bryant ........................ Rock Hill
Toby Gerald Chapman ........................ Winnabao
Harry Earl Childs, Jr. ........................ Seneca
Jennings Bennett Collins ....................... Greenville
William Vinson Cummings ..................... Spartanburg
Benjamin Harold Cuttino, Jr. ............... Lithonia, Ga.
Danny Ray Davis ............................. Felzer
Jesse Frank Dillard ........................... Taylors
Paul Winfree Dowdy ........................... Clemson
James Albert Dye ................................ Anderson
Calvin Lynn Farmer ............................ Greenville
Richard Lartigue Garick ....................... Orangeburg
Beaufort Charles Hallman, Jr. ............... Denmark
James Wallace Huckaby ....................... Roebuck
Tony Allen Jones ................................ Charleston Heights
Thomas Leland Jones .......................... North Augusta
Robert McGee Jordan ......................... Hartsville
Dennis Leroy Joye ............................ Charleston
Harvey James Kinder .......................... Kingstree
George John Knight ........................... Varnville
Whitner Kilpatrick Livingston III .......... Mauldin
David Wade Mayes ............................ Aiken
Obert Eugene Olson ........................... Sunburg, Minn.
Thomas Edward Pospisil ........................ Bloomfield, N. J.
Walter Eugene Riga ............................ Madison, Ohio
John Howard Robuck ........................... Spartanburg
Roy Dayne Smith ................................ Ninety Six
James Kirby Snead, Jr. ........................ Greenwood
Hampton Broadus Steedly, Jr. ............... Charleston
Theodore Henry Steiner ....................... Pittsburgh, Pa.
John Hall Waddell ............................. Hendersonville, N. C.
Lawrence Reed Watson ......................... Greenville
Fredrick Donald Welch, Jr. ................... Columbia
Larry Franklin Whiffield ....................... Anderson
Danny Ray Wilson ............................. Fort Mill
Ronald Allen Wingard ......................... Lexington

Textile Chemistry

** Terry Kenneth Anderson ......................... Edwardsville, Ill.
* James Edward Bostic, Jr. .................... Bennettsville

Textiles

William Thomas Jackson ........................ York
Vernon Alton Robbins, Jr. ..................... Rock Hill
* William Milton Sibley ........................ Rock Hill

SCHOOL OF NURSING

ASSOCIATE IN ARTS DEGREE

Nursing

Elizabeth Ann Blackmon ........................ Bowersville, Ga.
* Sarah Josephine Blackmon ..................... Greenville
* Harolyn Faye Bratcher ........................ Belton
* Martha Karen Buckner ........................ Union
* Victoria Gidaro Caldwell ..................... Spartanburg
** Brenda Marcine Calloway ....................... Forest City, N. C.
Judy Cleveland ................................. Elberton, Ga.
Alice Lorraine Culbertson ..................... Honea Path

* Judith Babb Davis ............................ Greenwood
Sandra Ann Dossey ............................. Sumter
Harriet Ann Hall ............................... Anderson
Nancy Luellen Hicks ............................ Aiken
Mary JoAnne Knight ............................ Honea Path
Wanda Gail Mason ............................... Anderson
* Susan Rebecca Tyndall ........................ Clemson
Sandra Joan Yeargin ............................ Elberton, Ga.

* With honor
** With high honor
*** With highest honor
† With departmental honors
CANDIDATES FOR MASTERS' DEGREES

COLLEGE OF AGRICULTURE AND BIOLOGICAL SCIENCES

MASTER OF SCIENCE DEGREE

Agricultural Economics
Dan Lucien McLemore _______ Surrency, Ga. Kimrey Dayton Newlin _______ Liberty, N. C.

Animal Science
Daniel Edward Ramage _______ Pittsburgh, Pa.

Entomology
Howard Roy Harris _______ Queens, N. Y.

Horticulture
Mack James Fleming _______ Charleston

Plant Pathology
Christopher Randall Freeman _______ Sumter William Timothy Mercier _______ Blue Ridge, Ga.

Zoology
Herbert DeWitt Blackwood _______ Spartanburg Mary Lang Olson Edwards _______ Greenville

COLLEGE OF ARTS AND SCIENCES

MASTER OF ARTS DEGREE

English
Mary Sue Jones _______ Taylors

MASTER OF SCIENCE DEGREE

Chemistry
Samuel Jones Price III _______ Birmingham, Ala.

Mathematics
Amos Trice Brown, Jr. _______ Levittown, Pa. Donald Robert Russell _______ Greenville
Richard Bryan Evans _______ Ridgewood, N. J. Billie Ben Smith, Jr. _______ Shreveport, La.
Charles Jeffrey Reese _______ Rock Hill John Lee Wilkins _______ Athens, Ga.

Physics

SCHOOL OF EDUCATION

MASTER OF AGRICULTURAL EDUCATION DEGREE

(Agricultural Education is jointly administered by the College of Agriculture and Biological Sciences and the School of Education.)

Jack Percy Corn _______ Mauldin
### MASTER OF EDUCATION DEGREE

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<th>City</th>
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<tbody>
<tr>
<td>Mary Helen Bennett Acker</td>
<td>Greenville</td>
</tr>
<tr>
<td>Donald Houston Batson</td>
<td>Easley</td>
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<tr>
<td>Edna Coker Bush</td>
<td>Easley</td>
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<tr>
<td>Kathie Robbins Butler</td>
<td>Rock Hill</td>
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<tr>
<td>Mary Gillespie Fowler</td>
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<tr>
<td>Lillian Brown Glenn</td>
<td>Anderson</td>
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<tr>
<td>Elizabeth Lynch Lashley</td>
<td>Rock Hill</td>
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<tr>
<td>Wilma Smith Murphree</td>
<td>Walhalla</td>
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<tr>
<td>Allene Coker Peden</td>
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<tr>
<td>Jean Underwood Phillips</td>
<td>Walhalla</td>
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<tr>
<td>George Wyatt Thompson</td>
<td>Anderson</td>
</tr>
<tr>
<td>Annie Stephens Tribble</td>
<td>Anderson</td>
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<tr>
<td>Edith Wiles Williams</td>
<td>Anderson</td>
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### COLLEGE OF ENGINEERING

#### MASTER OF SCIENCE DEGREE

##### Ceramic Engineering

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
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</thead>
<tbody>
<tr>
<td>Martin Milner Cooper</td>
<td>Thomasville, Ga.</td>
</tr>
<tr>
<td>Erik Francis Croen</td>
<td>Asheville, N. C.</td>
</tr>
<tr>
<td>Donald Lee Hindman</td>
<td>Walhalla</td>
</tr>
<tr>
<td>John Michael Jenkins</td>
<td>Montgomery, Ala.</td>
</tr>
<tr>
<td>Christian Dallas Tulbert</td>
<td>Venice, Fla.</td>
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</tbody>
</table>

##### Chemical Engineering

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
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<tbody>
<tr>
<td>Rudolf Othmar Friederich</td>
<td>Mobile, Ala.</td>
</tr>
<tr>
<td>Hermogenes Moreno</td>
<td>Puerto San Jose, Guatemala</td>
</tr>
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##### Civil Engineering

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
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<tbody>
<tr>
<td>Sheong San Liao</td>
<td>Taipei, Taiwan</td>
</tr>
<tr>
<td>Chuan Chung Lin</td>
<td>Taipei, Taiwan</td>
</tr>
<tr>
<td>Leo Richard Smith</td>
<td>Cheyenne, Wyo.</td>
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</tbody>
</table>

##### Electrical Engineering

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
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<tbody>
<tr>
<td>Luther Lee Joyner</td>
<td>Savannah, Ga.</td>
</tr>
<tr>
<td>William Ray Sutton</td>
<td>Myrtle Beach</td>
</tr>
<tr>
<td>David Oliver Ward</td>
<td>Kingstree</td>
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</table>

##### Engineering Mechanics

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>William Jacob Craft</td>
<td>Rutherfordton, N. C.</td>
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</table>

##### Water Resources Engineering

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>William Harold Allen</td>
<td>Waynesville, N. C.</td>
</tr>
<tr>
<td>Donald Hugh Higgins</td>
<td>Asheville, N. C.</td>
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</table>

### SCHOOL OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE

#### MASTER OF ARTS DEGREE

##### Economics

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
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<tbody>
<tr>
<td>Samuel Jacob Montgomery</td>
<td>Chappells</td>
</tr>
</tbody>
</table>

#### MASTER OF SCIENCE DEGREE

##### Industrial Management

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
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<tbody>
<tr>
<td>Ben Terry Clark III</td>
<td>Charleston</td>
</tr>
<tr>
<td>James Wilton Orr</td>
<td>Greenville</td>
</tr>
<tr>
<td>Perry McCallum Parrott, Jr.</td>
<td>Greenville</td>
</tr>
<tr>
<td>Brent Eric Zepke</td>
<td>Haddonfield, N. J.</td>
</tr>
</tbody>
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##### Textile Chemistry

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Warren Sumner Perkins</td>
<td>Elloree</td>
</tr>
</tbody>
</table>

##### Textile Science

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Woodrow Parker Greene</td>
<td>Marion, N. C.</td>
</tr>
</tbody>
</table>
CANDIDATES FOR DOCTORS’ DEGREES

COLLEGE OF AGRICULTURE AND BIOLOGICAL SCIENCES

DOCTOR OF PHILOSOPHY DEGREE

Agricultural Economics

Henry Cornelius Gilliam, Jr. .................................. Raleigh, N. C.
B.S., M.S., North Carolina State University
Dissertation: An Analysis of the Valuation of Agricultural Land in Cotton-Producing Areas of the South Carolina Coastal Plain

Agronomy

Jerry Clyde Walker ........................................ Pharr, Texas
B.S., Pan American College
Dissertation: Effects of Trifluralin and Inorganic Salts on the Growth of Seedling Cotton

COLLEGE OF ARTS AND SCIENCES

DOCTOR OF PHILOSOPHY DEGREE

Chemistry

Frank Garnett Cowherd III ................................ North Laurel, Md.
B.S., Duke University
Dissertation: Iron Pentacarbonyl Catalyzed Isomerization of Unsaturated Alcohols: The Mechanism of 1,3-Hydrogen Shifts

Randolph Bruce Huff ...................................... Clinton
B.S., Furman University; M.S., Clemson University
Dissertation: I. Reactions of Hydrogen Chloride Gas with Solid 1,10-Phenanthroline and 2,2-Bipyridine Transition Metal Compounds II. Reactions of Hydrogen Chloride Gas with Solid beta Diketone Copper (II) Compounds

Billy Thomas Upchurch ................................... Rocky Mount, N. C.
B.S., North Carolina Wesleyan College; M.S. Clemson University
Dissertation: A Study of the Alkaline Earth Chelates, of the Optically Active trans-Cyclopentane-1,2-diaminetetraacetic Acid

Mathematics

Harold Braun Reiter .................................... New Orleans, La.
B.S., Louisiana State University; M.S., Clemson University
Dissertation: On Embeddings of Topological Spaces in a Product of Real Number Line

Arthur Godwin Sparks .................................. Brooklet, Ga.
B.S., Georgia Southern College; M.Ed., University of Georgia; M.A., University of Florida
Dissertation: Intersections of Maximal Ln Sets and the Generalized Convex Kernel

Physics

Thomas Lee Ferrell ..................................... Anniston, Ala.
B.S., Auburn University
Dissertation: The Equation of Motion for a Particle in an Arbitrary Gravitational Field

Robert Riggs Marchini ................................ Antioch, Ill.
B.S., DePaul University
Dissertation: Energy Gap Measurements in Thin Superconducting Films

John Thaddeus Rompala ................................ Chicago, Ill.
B.S., DePaul University
Dissertation: A Nuclear Scattering Theory
COLLEGE OF ENGINEERING

DOCTOR OF PHILOSOPHY DEGREE

Engineering

John Lyall Taggart ....................................................... Clarksville, Md.
B.S., Tri-State College; M.S., Carnegie Institute of Technology
Dissertation: Gradient Optimization Techniques and the Economic Dispatch Problem (Field of Specialization: Mechanical Engineering)

SCHOOL OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE

DOCTOR OF PHILOSOPHY DEGREE

Engineering Management

Donald Lee Haney .......................................................... Decaturville, Tenn.
B.S., Massachusetts Institute of Technology
Dissertation: A Statistical Interpretation of the Shift-Share Technique and Its Application to Multistage Regional Analysis

Joseph McRae Mellichamp .............................................. Toccoa, Ga.
B.I.E., Georgia Institute at Technology
Dissertation: A Model for Estimating the Secondary Benefits to a Regional Economy Resulting from Development of a Water Resource
Awards

NORRIS MEDAL

First awarded at Clemson University in 1908, the Norris Medal was established under the terms of the will of the Honorable D. K. Norris, a life trustee of this institution. The Medal is given each year to the graduating student who, on the basis of exceptional scholastic achievement and leadership ability, is judged by the University Committee on Honors and Awards to be the best all-around student.

All winners of the Norris Medal have their names fixed to a bronze plaque mounted in the front entrance of Tillman Hall.

WINNER OF THE NORRIS MEDAL FOR 1969

Charles David Cooper
Winter Park, Florida

FACULTY SCHOLARSHIP AWARD

Established at Clemson University in 1959, this award is made annually by the Faculty of Clemson University to the member of the Graduating Class with the highest Scholastic Achievement.

All winners of the Faculty Scholarship Award have their names fixed to a bronze plaque mounted in the front entrance of Tillman Hall.

WINNER OF THE FACULTY SCHOLARSHIP AWARD FOR 1969

Shirley Ann Couch
Williamston, South Carolina
Recipients of Honorary Degrees

HUGH PATE HARRIS

HUGH PATE HARRIS, President of The Citadel since 1965, is a retired General of the United States Army. A native of Anderson, Alabama, he graduated from the United States Military Academy in 1931. His distinguished career of thirty-four years of military service covered a wide range of assignments. Immediately preceding his retirement, he was Commanding General, United States Continental Army Command. During his tenure at The Citadel he has increased the offerings in graduate education at that institution and has contributed materially to educational progress at all levels in South Carolina.

CLARENCE HUGH HOLMAN

CLARENCE HUGH HOLMAN is a native South Carolinian who has devoted his life to education. He received his initial undergraduate degree from Presbyterian College and the Doctor of Philosophy degree from the University of North Carolina. He has served on the faculties of Presbyterian College and the University of North Carolina, including the office of Provost at the latter institution. He was the recipient of a Guggenheim Fellowship and is a member of numerous learned societies, including Phi Beta Kappa. Author of novels and of numerous educational and scholarly publications, he is recognized as an authority in the field of South Carolina and Southern literature.

JENKIN LLOYD JONES

JENKIN LLOYD JONES is Editor and Publisher of the Tulsa Tribune, Tulsa, Oklahoma. He graduated from the University of Wisconsin in 1933 and has been continuously engaged in the field of journalism since that date, except for a period of naval service during World War II. His weekly syndicated column published in newspapers throughout the country combines keen observation and human interest with a devotion to the basic values of American life. He has served as President of the American Society of Newspaper Editors and is the recipient of the William Allen White Award for distinguished journalism. He is President of the United States Chamber of Commerce.
HUBERT BOND OWENS

HUBERT BOND OWENS is a distinguished landscape architect, educator, lecturer and author. A native of Georgia, he received the Bachelor of Science and Master of Arts degrees from the University of Georgia. He has done advanced graduate study at Cornell University, Columbia University, and Harvard University, and is a member of numerous honorary and professional societies. He is the author of fourteen books and many articles and monographs. He was the first Chairman of the Georgia Board of Landscape Architecture and Environmental Design at the University of Georgia.

WILSON ALVIN REEVES

WILSON ALVIN REEVES is a Textile Scientist and Chief of the Cotton Finishers Laboratory, United States Department of Agriculture, in New Orleans. He received his undergraduate degree from the University of Southwestern Louisiana and his Master's degree in chemistry from Tulane University. He is a pioneer in the development of flame-retardant materials and has contributed significant research in this field. He holds many patents in textile processing and is the author of numerous papers and publications on textiles. His extensive memberships in professional societies include the American Chemical Society and the Gulf Research Committee of the American Association of Textile Chemists and Colorists, of which he is Chairman.
Emeritus Professors

A faculty member who has a minimum of fifteen years academic service, ten of which has been at Clemson, and who is on active status at Clemson when he reaches retirement age, is awarded the title "Emeritus." During the 1968-1969 year this title has been earned by two professors:

HOWARD LOUIS HUNTER, Dean of the College of Arts and Sciences and Professor of Chemistry, joined the Clemson University faculty in 1928 as an Assistant Professor of Chemistry. He received his Bachelor of Chemistry and Doctor of Philosophy degrees from Cornell University and later did post-doctoral work at the Massachusetts Institute of Technology. From 1931-32 he served as Acting Head and Professor of Textile Chemistry and Dyeing. He was made Dean of the School of Chemistry and Geology in 1947; and when Chemistry and Geology were made a Department of Arts and Sciences in 1955, he was made Dean of the College of Arts and Sciences. He served four years during the Second World War in the Chemical Warfare Service, stationed at Massachusetts Institute of Technology, and retired with the rank of Lieutenant Colonel. He has been a member of Phi Kappa Phi, Sigma Xi, a fellow of both The American Institute of Chemists and the American Association for the Advancement of Science, also a member of the American Chemical Society, The South Carolina Academy of Sciences, The Blue Key, Tiger Brotherhood, Alpha Chi Sigma, and various other organizations. He was the first representative of Clemson University on the Council of Oak Ridge Institute of Nuclear Studies and has continued to serve in this capacity until his retirement.

HUGH HARRIS McGARITY, Professor of Music, joined the Clemson faculty in 1946. He was promoted to Professor in 1961. A native of Athens, Georgia, Dr. McGarity received the degrees of Bachelor of Fine Arts and Master of Fine Arts from the University of Georgia, after which he became a member of the Clemson faculty. The Doctor of Philosophy degree was conferred by The Florida State University. Dr. McGarity served as Band and Glee Club director at Clemson University and has been active in musical activities in the Clemson area. Among his best known compositions is the music of the Clemson University Alma Mater.