5-1-1970

Clemson Commencement Program, May 1970

Clemson University

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Graduation
Friday, May 8, 1970
11:15 A. M.  Littlejohn Coliseum

Order of Ceremonies
(Audience will please stand as faculty and candidates march in and remain standing for the Invocation)

Invocation
The Reverend Thomas C. Davis
Rector, Holy Trinity Episcopal Church
Clemson, South Carolina

Conferring of Degrees and Delivery of Diplomas
President Robert C. Edwards

Benediction

Music by Clemson University Concert Band
Dr. John H. Butler, Director
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 nine major academic units. These are the College of Agriculture and Biological Sciences; the College of Architecture; the College of Education; the College of Engineering; the College of Industrial Management and Textile Science; the College of Liberal Arts; the School of Nursing; the College of Physical and Mathematical Sciences; 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

#### Agricultural Economics

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
</tr>
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<tbody>
<tr>
<td>Dennis Lehman Bauknight</td>
<td>Easley</td>
</tr>
<tr>
<td>Orren Edward Byrd, Jr.</td>
<td>Hartsville</td>
</tr>
<tr>
<td>Larry Dean Cartee</td>
<td>Easley</td>
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<tr>
<td>James Thurman Gordon, Jr.</td>
<td>Mt. Pleasant</td>
</tr>
<tr>
<td>William Allen Hand</td>
<td>San Antonio, Texas</td>
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<tr>
<td><em>Stafford Michael Mishoe</em></td>
<td>Loris</td>
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<tr>
<td>Thomas Connor Moss, Jr.</td>
<td>Cameron</td>
</tr>
<tr>
<td>James Howell Myers, Jr.</td>
<td>Westminster</td>
</tr>
<tr>
<td>William Mobley Reese</td>
<td>Columbia</td>
</tr>
<tr>
<td>Ronald Parker Townsend</td>
<td>Anderson</td>
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#### Agronomy

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<tr>
<td><em>Elvin Leonidas Bull</em></td>
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<tr>
<td><em>George David Pitner</em></td>
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<tr>
<td><strong>Thomas Winfield Sawyer</strong></td>
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<tr>
<td>James Merrill Adams</td>
<td>Union</td>
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<tr>
<td>Larry Neal Atkinson</td>
<td>Jefferson</td>
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<td><em>Charles McHenry Banks</em></td>
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<td>Thomas Raymond Henderson, Jr.</td>
<td>McCormick</td>
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<tr>
<td><em>Richard Monroe Stepp</em></td>
<td>Greenville</td>
</tr>
<tr>
<td>James Jacob Wheeler III</td>
<td>Saluda</td>
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<tr>
<td>Thomas Hampton Wright, Jr.</td>
<td>Dillon</td>
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#### Animal Science

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<tr>
<td>John Franklin McMakin</td>
<td>Lyman</td>
</tr>
<tr>
<td>James Oscar Patterson III</td>
<td>Spartanburg</td>
</tr>
<tr>
<td>Robert Saye Riddle</td>
<td>Gastonia, N. C.</td>
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#### Biology

<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>Bobbie Franklin Ayers, Jr.</td>
<td>Orangeburg</td>
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<td>Robert Morris Clayton, Jr.</td>
<td>Laurens</td>
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<tr>
<td><strong>James Mack Cloninger</strong></td>
<td>Blackstock</td>
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<td>Donald Edward Collins</td>
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<tr>
<td>Marlan Scott Cornwell</td>
<td>Ft. Myers, Fla.</td>
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<td>William Wayne Deer</td>
<td>Beaufort</td>
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<td><em>Kenneth Dale Dykstra</em></td>
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<tr>
<td>Carole Ellis</td>
<td>Fort Mill</td>
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<td>Phillip Harrington Gandy</td>
<td>Hartsville</td>
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<tr>
<td><em>Gail Louise Hanna</em></td>
<td>Effingham</td>
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<tr>
<td>Ernest Gary Jeffords</td>
<td>Orangeburg</td>
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<td>James Leroy Johnson</td>
<td>Claymont, Del.</td>
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<td>**Champ McMillian Jones, Jr.</td>
<td>Clemson</td>
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<tr>
<td>Robert George Kelly</td>
<td>Liberty</td>
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<td>Linda Ruth Kusma</td>
<td>Iselin, N. J.</td>
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<td>Victor Grainger McKay</td>
<td>Sumter</td>
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<td>John Nicholas McNair</td>
<td>Jackson</td>
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<td>Margaret Lynn Macaulay</td>
<td>Mt. Morris, N. J.</td>
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<td>Bruce William Marshall</td>
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<td>Rodney Earl Martin</td>
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<td><em>Louis Behrens Mathis, Jr.</em></td>
<td>Timmonsville</td>
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<td>Wilbur Kears Milhous</td>
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<td>Cathy Lou Moss</td>
<td>Blacksburg</td>
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<tr>
<td>Christopher Kent Rash</td>
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<td>William Boyd Rhodes III</td>
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<td>Ralph Elliot John Saunders</td>
<td>Dover, N. J.</td>
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<td><em>Donald Thomas Shealy</em></td>
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<td>Frank Joe Singletary</td>
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<tr>
<td>Robert Leslie Smulser</td>
<td>Englishtown, N. J.</td>
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<td>William Robert Stuart</td>
<td>Clemson</td>
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<td>Douglas Eugene Waddell</td>
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<td><strong>Jerry Craig Waters</strong></td>
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#### Dairy Science

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<tr>
<td>John Davis Jordan</td>
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<td>Randolph Edward Senn</td>
<td>Newberry</td>
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#### Entomology

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<th>Name</th>
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<tr>
<td>David Cosby Arnold</td>
<td>West Columbia</td>
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#### Food Science

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<th>Name</th>
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<tr>
<td>*<strong>Judith Elaine Beach</strong></td>
<td>Rock Hill</td>
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<tr>
<td><em>Thomas Alan Gibson</em></td>
<td>Clemson</td>
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<tr>
<td><strong>Linda Marie Parker</strong></td>
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<tr>
<td><em>Charles Clarence Yongue</em>*</td>
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#### Forestry

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<th>Name</th>
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<tr>
<td>Thomas Patrick Dowling</td>
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<td>Edmund Gregorie Frantmond, Jr.</td>
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<td>Benjamin Harrison Green III</td>
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<td>James John Jensen, Jr.</td>
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<td>Isaac Leonard Keller</td>
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<td>Donald Paul Patterson</td>
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<td>James Gary Ramsey</td>
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<td>Ashby Kenneth Smith, Jr.</td>
<td>Murrells Inlet</td>
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<td>Dwight LaVerne Stewart, Jr.</td>
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<td>William Rutledge Thomas</td>
<td>Carlisle</td>
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<td><em>Walter Virgil Wall, Jr.</em></td>
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<td>Henry Neyle Wilson</td>
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#### Horticulture

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<tr>
<td>James Corbett Gibson</td>
<td>Newberry</td>
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<tr>
<td>Mary Swaffield Holton</td>
<td>Columbia</td>
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COLLEGE OF ARCHITECTURE

BACHELOR OF ARTS
Pre-Architecture
Howard Richard Howes ______ Stratford, Conn. Timothy Leo McNeight ______ Newburgh, N. Y.

BACHELOR OF SCIENCE
Building Construction

BACHELOR OF ARCHITECTURE

COLLEGE OF EDUCATION

BACHELOR OF ARTS
Elementary Education
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(Agricultural Education is jointly administered by the College of Agriculture and Biological Sciences and the College of Education.)

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Larry Dwight Floyd Galvants Ferry
Raymond Leslie Galloway, Jr. Darlington
Joseph Craven Jones Florence

Thomas Parker Little Culberson, N. C.
Donald Andrew Newton McColl
Bryan Cadette Page Dillon
Thomas Samuel Welsh Bishopville

Industrial Education

Calvin Newell Bowie, Jr. Due West
William Len Broome Abbeville
Jackson Wilbur Burnett III Greenville
William Bruce Busch, Jr. Columbia
Samuel Earl Crosby Greenville
Richard Cleveland Henderson III Belton
Donald Ray Hill Greenville
Michael Keith Jones Greer
David Lane Lee, Jr. Sumter
Edwin O'Dell Lesley Manning

George Gregory Link Clinton
Harold Wilson Lowrance, Jr. North Charleston
James Halbert Moseley, Jr. Greenville
Terry Wayne Phillips Gaffney
David Michael Reuter Charleston
Jonathan Cleveland Rice III Ware Shoals
*Jackie Weyman Smith Norcross, Ga.
James William Tucker, Jr. Easley
John Robert Zepf New Milford, Conn.

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Hal Robert Bell Charlotte, N. C.
Roy Eddie Blanchard Aiken
James Hamilton Bull Abbeville
Robert Rees Durant III Manning
John Baker Fulmer Lancaster
Steven Amos Gantt Chester
Joe Lawrence Hambright, Jr. Grover, N. C.
Salley Mitchell Hubbard Westminster
Francis Allen Jeffries, Jr. Columbia
Washington Reynolds Keels III Pinewood

*William Alexander Lashley, Jr. Columbia
Robert Andrew McKinney, Jr. Greenville
Larry McSween Miller Johnsonville
William Terrell O'Conor Brevard, N. C.
Russell Arthur Poston Hanahan
*Arnold Joseph Ramsey Pauline
David Lawrence Sadowski Oak Ridge, Tenn.
Frankie Marion Setzler Whitmire
George Dana Tawes Crisfield, Md.
Danny Lane Turpin Easley

Science Teaching

Julian Langston Boyles Winston-Salem, N. C.
Ronald Wayne Coker Asheville, N. C.
Barry Anthony Earle Valley Station, Ky.
Edward William Hartling Islip, N. Y.

Margaret Louise Hawkins Central
*Audrey Walker Parker, Jr. Dillon
Charlton Boyd Patterson, Jr. Spartanburg
David Garvin Porter Spartanburg
Charles Milton Werner, Jr. Travelers Rest

COLLEGE OF ENGINEERING

BACHELOR OF SCIENCE

Agricultural Engineering

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

Thomas Eugene Dobbins Townville
Heath Persons Dobson Greer

Thomas Roy Garrett Six Mile
Alvin Alexander Leach Effingham

Ceramic Engineering

Judson Dennis Dobbins Greer
Robert Henry Jolly Winnsboro

Franklin Neal Knight Laurens
Charles David Taylor, Jr. Salisbury, N. C.
Chemical Engineering

Harold Ciremba Amick, Jr. ______ Orangeburg
James Cecil Barker ___________ Sumter
Patrick Eugene Binkley __________ Florence
Donald Lee Bruce _______________ Greer
James Preston Campbell __________ Dillon
*Leland Tarver Clarke, Jr. _______ Charlotte, N. C.
Charles Jayroe Cole ______________ Columbia
**Bennett Hueston Corpening ____________ Asheville, N. C.
Joe Myers Davis _________________ Westminster
*John King Edmonds _____________ Anderson
Benjamin Franklin Ford, Jr. ______ Great Falls
Gary Joel Giegerich _____________ Euclid, Ohio
Susan Providence Glen _____________ Greenville
**Charles Harold Gooding __________ Hampton
***Edwin Fletcher Herrington III ________ Waynesboro, Ga.
Clyde Havird Jones, Jr. __________ Batesburg
Ralph Barber Kunz _______________ Florence
Jerry Brannon Martin ____________ West Columbia
Furman Rudolph Morrow, Jr. ______ West Columbia
Michael Dean Newman ____________ Inman
*Barry Louis Ornitz ______________ Seneca
Jeffrey Todd Palmer _____________ Winter Park, Fla.
James Bryson Peeples, Jr. __________ Barnwell
**William Edward Robinson __________ Gaffney
Ronald Wingard Roof ______________ Lexington
Charles Roelyn Rutland __________ Orangeburg
William Bruce Scherler ___________ Greenville
Richard Dean Simmons ____________ Anderson
Wilhelmus Cornelis Van Loon ____________ Savaneta, Aruba, Antilles
Johnnie James Walters ____________ North Charleston
William Ira Watson ______________ Woodleaf, N. C.
David Monroe Whetsell ___________ Charleston
*Larry Walker Wyatt ______________ Seneca
James Carl Young, Jr. ____________ North Charleston

Civil Engineering

James Coley Altman, Jr. ___________ Manning
Arthur Theron Boss III ____________ North Charleston
Daniel Marconi Batten III __________ Charleston
Heyward Harles Bouknight, Jr. _______ Columbia
*David Ronald Brabham __________________ St. Stephen
James Larry Buckner _______________ Roswell, Ga.
*Michael Glenn Crowe _________________ Marietts
William Horton Garvin _____________ Greensboro, N. C.
Robert Howard Harris, Jr. ___________ Atlanta, Ga.
Robert Arnold Henning ____________ Scotch Plains, N. J.
William Frederick Holle III ______ LaGrange, Ga.
Oscar Stanley King ________________ Easley
John Frederick McCarty ____________ Ware Shoals
Jerry Wayne Allen ________________ Spartanburg
*Charles Edward Bardsley III __________ Neenah, Wis.
William Milton Burns _______________ Charleston
Guy Pierre Canavaggio ____________ Panama, Panama
Gerald Wayne Cone _________________ Summerville
*Harold Lee Davenport ______________ Greenville
Reginald Gaines Hargrove ___________ Greenville
*Roger Fulton Hatchell ______________ Effingham
William Hubert Kirby, Jr. ___________ Greenville
Cary Durley McNamara _____________ Alexandria, Va.
**Glenty Spurgeon Marshall _______ Moncks Corner
Harvey Raymond Mathias ___________ West Columbia
*George Farquhar Miller, Jr. _______ Greenville
Paul John Muccino _________________ Seneca
Michael Robert Phillips _____________ Charleston
Marion Richardson Rembert, Jr. _______ Sumter
William Henry Sloan _______________ Charleston
*Theodore John Spielagel ____________ Kingsport, Tenn.
Michael Leon Walker ______________ Spartanburg
Bob Young Weathers _______________ Laurens
Stephen Lee Wright ________________ North Charleston

Electrical Engineering

Jerry Wayne Allen ________________ Spartanburg
*Charles Edward Bardsley III __________ Neenah, Wis.
William Milton Burns _______________ Charleston
Guy Pierre Canavaggio ____________ Panama, Panama
Gerald Wayne Cone _________________ Summerville
*Harold Lee Davenport ______________ Greenville
Reginald Gaines Hargrove ___________ Greenville
*Roger Fulton Hatchell ______________ Effingham
William Hubert Kirby, Jr. ___________ Greenville
Dennis Harold Lockwood ____________ Hackensack, N. J.
*Dennis Leroy Mauney ______________ Greenwood
James Arthur Miller ________________ Clemson
William Buck Sparkman ____________ Pressly __ Greenville
Jacob Rhodes Rogers III _______________ Dillon
*Glen Edwin Singletary _____________ Miami, Fla.
Eugene Andrew Smith, Jr. ___________ St. George
James Robbins Youngblood ____________ Charlotte, N. C.

Mechanical Engineering

Byron Hansel Barker _______________ Charleston
Bernard Arthur Bowen ______________ Anderson
Robert Anderson Calhoun ___________ Metter, Ga.
*James Sumter Carter _______________ Fort Lawn
John Wirt Cook, Jr. ________________ Williamsville, N. Y.
Wade Coggin Crow _________________ Spartanburg
*Robert Francis Drennan, Jr. _______ Rock Hill
Charles Alfred Forberg III ___________ Charleston
**Dennis Warren Haire ____________ Rock Hill
Robert Benjamin Hambright __________ Grover, N. C.
Samuel LeRoy Herndon III __________ Hartsville
Richard Manning Jamison ____________ Hanahan
William Henry Kahrs ______________ North Charleston
Jack Quinton Lever, Jr. _____________ Bethesda, Md.
William Welch McCollough __________ Spartanburg
Wilbur Joseph Nunes ________________ Greenville
*Coleman Clyde Owens, Jr. __ Mt. Pleasant
Charles Henry Ratterree III __________ Spartanburg
Arden William Stewart ______________ Orangetburg
Robert Streator Templeton _______ Sullivant, Md.
*Mark Harris Tennant ______________ North Augusta
Harry David Tibbs _________________ Great Falls
****William Russell Walden __________ Moore
Robert Windsor Wilson, Jr. __________ Woodruff
Metallurgical Engineering

BACHELOR OF CIVIL ENGINEERING
Phatphongs Sudasna Ayudhya --- Bangkok, Thailand

COLLEGE OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE

BACHELOR OF ARTS
Arts and Sciences

**Scott Cunningham Bergren _____ Greenville
Michael Gregory Bishop _________ Greenville
Larry Michael Blackmon _________ Lancaster
Marvin Richard Buchanan ____________ Jacksonville, Fla.
**Richard Earl Buller _____________ Media, Pa.
Jack Wayne Carter, Jr. ____________ Walterboro
Randall Dean Collins ___________ Lancaster
William Eric DeYoung _____________ Greer
George Ellison Finkelstein ___________ Orangeburg
Daniel Horton III _________________ Ridgeland
*Daniel Edward Hunt ______________ Greenville
*Joseph Johnson Hunter III ___________ Greenville
Terry Lockman Long _______________ Mauldin
Patrick Maurice McClure _________ Morton, Pa.
Douglas Charles McKinney _________ Greenville

BACHELOR OF SCIENCE
Industrial Management

Thomas Eugene Biechlin _____ Emmaus, Pa.
Thomas Joseph Brown ____ Kennett Square, Pa.
Wayne Perry Brown _____________ Easley
*Dennis Ray Cash ______________ Greenville
George Ernest Coleman ___________ Laurens
William Womble Cooper, Jr. ____________ Hanahan
John Bennette Cornwell III _____ Spartanburg
Geddes Marvin Cox III ________ Fayetteville, N. C.
Keith Ansel Davis ______________ Greenville
Maynard James Davis, Jr. ___________ Winnabro
Charles Larry Dickson _______ Sandy Springs
Floyd Donald Durham _____________ Pickens
*James Franklin Eliod __________ Greenville
Robert David Gantt ______________ Greenville
Johnny Stephen Gentry _________ Spartanburg
Harold Eugene Gilbert ___________ Seneca
Vernon Wofford Gravlee __________ Greenville
John Francis Gray _______________ Abbeville
Herman Odell Griffin, Jr. _________ Fort Mill
William Michael Griggs ___________ Southern Pines, N. C.
Larry Lionell Hall _______________ Jackson
Robert Linn Heverley _________ Walterboro
Hugh Edward Hurley ______________ Greenville
Albert Edwin Jeffords ___________ Lake City
Horace Dowling Kinsey ___________ Walterboro

Fritz Isham Merkel _____________ Cincinnati, Ohio
Ronald Joseph Montgomery ____ Myrtle Beach
Robert Simeon Moore, Jr. _______ Atlanta, Ga.
Eugene Frederick Moyer, Jr. _______ Spartanburg
John Mullen III _________________ Sunter
Horace Davenport Padgett, Jr. ___ Spartanburg
Herbert Lee Parham, Jr. ___________ Greenville
Michael Douglas Patterson _______ Greenwood
William Gregory Pearce ___________ Charleston
Linda Faye Rominger _______________ Sumter
Stanley Bruce Seawright ___________ Greenville
Lawrence Darrell Thomas ___ Pegram, N. J.
James Elaine Thompson _________ Hartsville
Peter Richard Verdee ___ Neptune City, N. J.
*Jay Stephen Willer _____________ Kettering, Ohio
James Foster Williamson, Jr. _______ Columbia
Michael Sundy Wimburn ___________ Patrick

Steven Glenn Edward Kuester ... Evansville, Ind.
Robert Lawrence LaForge ___________ Greenville
Frederick Lynn Latham ___________ Hanahan
*John Daniel Ledford ______________ Greenville
Jackson Edward McCann, Jr. _______ Abbeville
Joel Wayne McCombs ______________ Greenville
Olin Ronnie McNeely ______________ Pickens
Joel Richard Mahaffey ___________ LaGrange, Ga.
Norman Terry Massey _____________ Greenville
Eugene St. Clair Mellard, Jr. ____ Summerville
Robert James Melville _______ Statesville, N. C.
Thomas Anthony Ming ___________ Eatontown, N. J.
Hugh Foster Morgan, Jr. __________ Laurens
Larry William Oates ______________ York
William Riley Palmer ______________ Gaffney
Richard Joseph Pilo ______________ Bellport, N. Y.
James Michael Pizzicato _______ Rochester, N. Y.
William Nelson Poe, Jr. ___________ Greenville
James Ferris Poling ______________ Winter Park, Fla.
Thomas Marion Slaton ___________ Tignall, Ga.
Eric Morris Stone _______________ McCormick
Ray Livingston Vroom, Jr. _________ __________ Upper Saddle River, N. J.
William Sanford Ware, Jr. __________ Varville
William Colmery Webster _______ Greenville
Robert Hollis Williams ___________ Rock Hill
Darrell Moore Young ____________ Timmonsville
Textile Chemistry
Lawrence Bronson Durham, Jr. — Arcadia

Textile Science
*Kenneth Bruce Hayes —— Pickens
William Patrick McGuigan —— Abbeville
Wade Curtis Mullinnix —— Pickens

Textiles
**Randall Elton Beuchillon —— Simpsonville
*John William Gambrell —— Great Falls
Samuel Alexander Glenn, Jr. —— Fair Play
Thomas Hugo Klahre —— Deal, N. J.
Ben Allen Maynard, Jr. —— Simpsonville
William Eugene Rhymert, Jr. —— Winnsboro

COLLEGE OF LIBERAL ARTS

BACHELOR OF ARTS

John Randal Ashley ——— Belton
James Edward Barbery ——— Simpsonville
**Rachel Alice Blanton ——— Seneca
Phillip Clark Boddie ——— Cincinnati, Ohio
Joseph Dennis Bolt ——— Anderson
Robert Mike Bouknight, Jr. ——— West Columbia
Glenn Bowers ——— Lancaster
John Lester Brady, Jr. ——— Spartanburg
John Robert Brock, Jr. ——— Wallhalla
Walter Thomas Burris ——— Brooklyn, N. Y.
Marvin Jennings Caughman ——— Columbia
Michael Sean Caulder ——— Camden
Gary Elmore Clary ——— Gaffney
James Lane Coley II ——— Anderson
*Rosemarie Anhold Cothran ——— Nordenham, Germany

Henry Clay Cox, Jr. ——— Anderson
John Redmond Coyle ——— Easley
William Henry Crocker ——— Columbia
Nancy Ruth Dannals ——— Maitland, Fla.
*Robert Anthony DeFrancisco ——— Derby, Conn.
Horace Christopher Dyar ——— Seneca
Marshall William Edwards, Jr. ——— Travelers Rest
Glenn Patrick Felton ——— Bayside, N. Y.
Charles Patton Ferguson ——— Rock Hill
James Fayton Fields, Jr. ——— McBee
Carolyn Diann Foster ——— Duncan
Wilbur Norman Glenn III ——— Bethesda, Md.
Mark Harris Goldman ——— Woodbridge, Conn.
**Lucille Courson Gordon ——— Edgewater, Md.
*Betty Joyce Graham ——— Clemson
Aaron Harvey, Jr. ——— Charleston
William Harry Howard ——— Greenville
Cordelia Snyder Hunter ——— Manning
†Beverly Jo Jackson ——— Newberry
Teddee Laura Janes ——— Chihuahua, Mexico
***Sharron Lee Jansen ——— Sumter
**Horace Steven Johnson ——— Greer
Judith Drake Jones ——— Anderson
David Lee Kay ——— Greenville
Francis Wilkinson King, Jr. ——— Georgetown
Thomas Simpson Klugh ——— Clemson
Linda Jo Ladd ——— Williamson
Gary Edward Ligi ——— Astoria, N. Y.
*Frances Evans Locklear ——— Holly Hill
Larry Bruce Long ——— Greenville
Brenda Sharon Manley ——— Rock Hill
James Maurice Merrill ——— Greenville
Helen Marion Molten ——— Greenville
*Dennis Duane Moore ——— Greenville
*Kathryn Melinda Nixon ——— High Point, N. C.
Jeanne Hall Norris ——— Greenville
John Croft Norton ——— Ocean Drive
*Richard Louis Oborn ——— Faribault, Minn.
Wayne Robert Osef ——— Richway, N. J.
Anne Campbell Peden ——— Pelzer
Stanley Victor Perez ——— San Domingo, D. R.
Robert Michael Pridmore ——— Hickory Grove
*Edward Stuart Pusey ——— Charleston
George David Rankin III ——— Clemson
George Dewey Rave ——— Clemson
Edward Mark Rubich, Jr. ——— Willingboro, N. J.
Guy StClaire Sanders III ——— Bamberg
**Glenn David Shepherd ——— Greenville
Malcolm Duane Shuler ——— Kingstree
Gerald Wade Smith ——— Madison
*Harriet Robins Smith ——— Jacksonville, Fla.
†Thomas Michael Smith ——— Spartanburg
William Alan Smoke ——— Greenville
William Ray Thomson ——— Honea Path
Edward Charles Townsend, Jr. ——— Cambridge, Md.
*David Phillips Watkins, Jr. ——— Anderson
Ernest William Weaver, Jr. ——— Lake City
Ralph Edward Wempe ——— Sumter
Robert Krehl Whitney ——— Clemson
David Frank Williams ——— Greenville
Leonard Elwin Witt III ——— Washington, D. C.
James Goodrich Wright, Jr. ——— Coral Gables, Fla.
Vivian Elise Young ——— Sumter
SCHOOL OF NURSING

ASSOCIATE IN ARTS Nursing
Barbara Jean Ashley -------------- Donalds
Nancy McWhorter Barnett -------- Lincoln, Ga.
*Carol Nixon Campbell ---------- Anderson
Shirley Janet Causey ------------ Mauldin
Dorothy Louise Crocker ---------- Iva
Catherine Alice David ---------- Salters
*Gloria Martin Driver ---------- Anderson
Kathy Mason Henderson --------- Honea Path
Bertha Dianne Jones ------------ Florence

*Anita Delaramaux Macalone ----- Abbeville
Danette Wickun Needham ------- Milford, Conn.
Nancy Margaret Smith ---------- Greensboro, N. C.
Janice Gail Rahn Stamps ------- Anderson
Bennie Sue Strickland ---------- Anderson
**Dorothy Juanita Walker ------- Columbia
Worthlyn Agnita Walker -------- Columbia
*Judith Elizabeth Wright -------- Ward

COLLEGE OF PHYSICAL AND MATHEMATICAL SCIENCES

BACHELOR OF ARTS Arts and Sciences
Arthur Jerry Currence ------------- York
*Charles Ryan Howard, Jr. -------- ------------------------------------------ Glens Falls, N. Y.

BACHELOR OF SCIENCE Chemistry
David Paul Baird ---------------- Greenville
**Marshall Lynn Deanhardt ------- Belton

Geology
Michael Luther Capps --------- Greenville
*Stephen LeRoy Wood ----------- Woodruff

Mathematics
William Robert Blackwell -------- Clinton
**Margaret June Cely ---------- Greenville
*James Peter Chovan ---------- Bethlehem, Pa.
Byran Douglas Earwood ---------- Anderson
*Colonel Jack Gaddy, Jr. ------- Myrtle Beach
Barbara Jean Hayes ------------- St. Paul, Minn.
†***Robert Edward Jamison II --- Winter Haven, Fla.
Sidney Martin Kearse ---------- Florence
Richard Stephen Kutsleb ------- Freehold, N. J.
Charles Michael Murphree ------- Easley
*Judith Anne Nicks ------------ Decatur, Ga.
Randall Charles Phillips -------- Greenville
**Elizabeth Pitts -------------- Clemson
Bobby Joe Poole -------------- North Charleston
**Virginia Dawn Richbourg Riddle --- Florence
Del Ackerman Rosebrock ---- North Charleston
Eulalie Yvonne Seel ---------- Rahway, N. J.
*Vincent Chester Smoral, Jr. -- Danville, Va.
*Michael Thomlinson Stewart ---- Lake City
**Danny Ray Sutherland -------- Greenwood
Marion Cooper Thompson -------- Manning

Medical Technology
Brenda Gail Argo -------------- Toccoa, Ga.
Nancy Masters Ellenburg ------ Liberty

Physics
Elisha Remington Baker IV ------- Sumter
*Benny Douglas Bartley --------- Aiken
*Gordon Heyward Dechman ----- Macon, Ga.

Emil William Heikkila, Jr. ---- Clermont, Fla.
*Donald Carson Wilson --------- Greenville
Pre-Medicine

*Milton Donald Alexander, Jr. ______ Brunson
**William Lafayette Betsill, Jr. _____ Anderson
Jerry Lane Bodie ____________ Ridge Spring
*William Pinckney Bonner ______ Gaffney
***John Arnold Brennan _______ Galesburg, Ill.
*James Henning Brunson, Jr. ______ Manning
Anthony Andrew Cochet ________ North Charleston
*Douglas Michael Conrad ________ Charleston
Charles Harmon Crawford, Jr. ______ Fort Lawn
Roy Charles Eldridge, Jr. _______ Spartanburg
Ralph Cleo Fennell, Jr. __________ Kingstree
Harrell Lee Gardner, Jr. ________ Darlington
**Stanford Taylor Garnett __________ Columbia
*Richard Wayne Hanna ___________ Lake City
Leonard Thomas Henderson ________ Newberry
*John Sylvester Hill _______ Charleston, W. Va.
John Radford Howell, Jr. __________ Williston
James Reid Jackson ____________ Sumter
Robert Nash Jackson ______________ Sumter
Thomas Lee Jacobs _______________ Sumter
Robert Garland Jamison __________ Conway
*Henry Bennett Kinard III ________ Greenwood
James Melvin Lindsey, Jr. ________ Manning
*Perry Irvine Lupo ______________ Greenville
*John Robert Mann _______________ Orangeburg
Theibert Johnson Milligan, Jr. ______ Loris
James Ray Mobley _______________ Anderson
Nathan Shadrack Newton, Jr. _______ Clemson
Lester Ray Oliver _________________ Hartsville
*Lawrence Kent Ray ______________ Walhalla
Raymond Howard Schneider III ________________ Pennsauken, N. J.
*Jerry Earl Smith _______________ East Northport, N. Y.
Kirby Hatten Smith _______________ Orangeburg
*Rowena Gail Sobczyk _______________ Clemson
William Gary Sturgis _____________ Rock Hill
Goodwin Grove Thomas, Jr. ________ Rock Hill
Michael David Thorne ______________ Jackson
*Ronald Richard Underhill _______ Sarasota, Fla.
**William Edward Verross _______ Hinesville, Ga.
**Auburn Woods III ______________ Hartsville
**George Frederick Worsham, Jr. ________ Charleston

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

COLLEGE OF AGRICULTURE AND BIOLOGICAL SCIENCES

MASTER OF SCIENCE

Agronomy
Benjamin Crane Morton, Jr. ______ Pendleton

Animal Science
Samuel Baylis Shackelford, Jr. __ Spartanburg

Entomology
John Chapman Morse __ Winston-Salem, N. C.

Forestry
Bobby Lamar Lanford __________ Woodruff
Arthur Townsend Shearin ______ Darlington

Horticulture
Joseph Frank Garofalo _______ Tickfaw, La.
Jack Rudolf Stang _______ Independence, Ohio
Alex Joseph Kish ___________ Youngstown, Ohio
Benjamin Ronald Stepp ______ Flat Rock, N. C.
Archie Jefferson Lewis III ______ McCormick

Microbiology
Donald Lyle Ewert ___________ Inkster, Mich.

Poultry Science
Virgil Ernest Kummers, Jr. _____ Fort Worth, Texas
Jackson Burley Ramsey, Jr. ___ Bryson City, N. C.

Zoology
Laura Freeman Bishop __________ Dahlonega, Ga.
Donald Stephen Cherry ________ Paterson, N. J.

COLLEGE OF ARCHITECTURE

MASTER OF CITY AND REGIONAL PLANNING
Michael Keith Bantz ______ North Charleston

COLLEGE OF EDUCATION

MASTER OF AGRICULTURAL EDUCATION
(Agricultural Education is jointly administered by the College of Agriculture and Biological Sciences and the College of Education.)

Everett Joseph Butler __________ Lexington

MASTER OF EDUCATION

John William Caldwell __________ Greenville
Lewis Paul Coffey ____ Blowing Rock, N. C.
Martha Ledbetter Daniels __________ Belton
Anne Beall Godbee __________ Ft. Walton, Fla.
James Irby Hightower, Jr. __________ Greer
John Robert Hilley ___________ Greenwood
Frances Cheatham James _______ McCormick
Johnnie Campbell Lowry __________ Felser
Richard Leon Mobley _______ Savannah, Ga.
Rebecca Burgess Murray ___ Greenback, Tenn.
Sara Martin Thornton __________ Anderson
Margaret Monroe Wagener _______ Clemson

MASTER OF INDUSTRIAL EDUCATION
Micah John LaRoche III ___ Wadmalaw Island

COLLEGE OF ENGINEERING

MASTER OF SCIENCE

Bioengineering
Tommy Lee Bridges ___________ Greenville
Francis Martin King, Jr. ______ Greenville
Ceramic Engineering
Robert Lane Mitchell --------- Atlanta, Ga.

Chemical Engineering
William Daniel Holder ------- Greenwood
Jerald Paul Peterson ------- Syracuse, Ind.
William Macon Sheppard ------ Orangeburg
Dave Robinson Stokely, Jr. ------ Kingsport, Tenn.

Civil Engineering
Jim David Rabon ------------------ Aynor

Electrical Engineering
Raymond Rees Glenn ------- Barberton, Ohio

Engineering Mechanics
Joseph George Neuwirth --------- Greenville

Materials Engineering
Furman Houston Brown ------------ Laurens

Mechanical Engineering
James Alexander Fowler ------- Bennettsville
Thomas Andy Grizzle ------ North Charleston

Water Resources Engineering
Robert Fredrick Edmonds, Jr. ------- Pickens

COLLEGE OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE

MASTER OF ARTS
Economics
Andy Hubbard Barnett --------- Westminster

MASTER OF SCIENCE
Management
Jerry Eugene Trapnell ------- Metter, Ga.

Textile Chemistry
Carroll Monroe Carter, Jr. ___ Lumber City, Ga.
Hsuan-wen Sabrina Wu _____ Taipai, Taiwan

Textile Science
Pierre Lucien Seveno ____ Lachute, Quebec

COLLEGE OF LIBERAL ARTS

MASTER OF ARTS
English
Edythe Rutherford Lambert ------- Clemson

COLLEGE OF PHYSICAL AND MATHEMATICAL SCIENCES

MASTER OF SCIENCE
Chemistry
James Francis Cope ------------ Greenville

Mathematics
Carl Vinson Hinkle, Jr. _______ Staunton, Va.
Alexia Broughton Latimer ------- Columbia
Julia Karlton Polk ___________ Hammond, La.
Nicholas Mark Stavrakas ___ Charlotte, N. C.
Becky Joyner Tallon _______ Nashville, N. C.

Physics
Charles Edward Kennedy II ___ Roanoke, Va.
CANDIDATES FOR DOCTORS' DEGREES

COLLEGE OF AGRICULTURE AND BIOLOGICAL SCIENCES

DOCTOR OF PHILOSOPHY

Animal Physiology

Thomas Mikell Leland .................................................. Summerville
B.S., Presbyterian College; M.S., Clemson University
Dissertation: The Fine Structure of Lutein Cells from the Cyclic and Pregnant Bovine

Entomology

Robert Rhea Nash .................................................. Central
A.B., Wesleyan Methodist College; M.S., Clemson University
Dissertation: Isocitrate lyase activity in the alfalfa weevil, *Hypera postica* (Gyllenhal), during summer diapause

Robert Irving Van Hook, Jr. ........................................... Florence
B.S., Clemson University
Dissertation: Energy and nutrient dynamics of predator and prey arthropod populations in a grassland ecosystem

Plant Pathology

Harley Furman Cantrell .............................................. Hendersonville, N. C.
B.S., Furman University; M.S., N. C. State College of A&E at University of North Carolina
Dissertation: The Effects of Temperature and pH on Growth, Physiology, and Metabolic Activities of *Pythium irregular* and *Pythium vexans*

COLLEGE OF ENGINEERING

DOCTOR OF PHILOSOPHY

Engineering

Clifford Noel Click ................................................... Reynoldsburg, Ohio
B.ChE., Ohio State University; M.S., University of Toledo
Dissertation: Some Critical Factors Relating to the Performance of a Pilot-Sized Deep Facultative Lagoon (Field of Specialization: Bioengineering)

William Jay Huffman .................................................. Paden City, W. Va.
B.S., West Virginia University; M.S., Clemson College
Dissertation: The Effect of Forced and Natural Convection During Ultrafiltration of Protein-Saline Solutions in Thin, Horizontal Channels (Field of Specialization: Chemical Engineering)

Calvin Boyd Parnell, Jr. .............................................. Anthony, N. Mex.
B.S., New Mexico State University; M.S., Clemson University
Dissertation: Electrostatic Force and Charge on Cotton Fibers As Influenced by Absolute Humidity, Dry Bulb Temperature, Fiber Length, and Electric Field Intensity (Field of Specialization: Environmental Systems Engineering)

James Harvey Turner .................................................. Stuart, Fla.
B.S., M.S., University of Maine
Dissertation: Fluid Bed Adsorption of Low Concentrations of Sulfur Dioxide in Air Onto Activated Carbon (Field of Specialization: Chemical Engineering)
COLLEGE OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE

DOCTOR OF PHILOSOPHY
Engineering Management

Elmer Earl Burch, Jr. ---------------------------------------- Spartanburg
B.S., M.S., Clemson University
Dissertation: A Factor Analysis Model for Evaluating and Comparing Company Performance

COLLEGE OF PHYSICAL AND MATHEMATICAL SCIENCES

DOCTOR OF PHILOSOPHY
Chemistry

James Easton Hendrix ........................................ Pensacola, Fla.
B.T.S., Alabama Institute of Technology; M. S. Clemson University
Dissertation: Thermal Degradation of Cellulose and Related Carbohydrates in the Presence of Selected Organic Phosphates

Homer Clyde Odom, Jr. ......................................... Laurel, Miss.
B.A., University of Southern Mississippi
Dissertation: Synthetic Approaches to the Eremophilane Sesquiterpene Group

Philip Andrew Spanninger ................................... Quakertown, Pa.
B.S., Philadelphia College of Textiles and Science; M.S., Clemson University
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 1970
Martenza Lenoir Jones
Columbia, South Carolina

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 1970
Edwin Fletcher Herrington III
Waynesboro, Georgia
Recipients of Honorary Degrees

WILLIAM JENNINGS BRYAN DORN

WILLIAM JENNINGS BRYAN DORN is the Congressman from the Third Congressional District of South Carolina, in which Clemson University is located. He has represented the District for more than twenty years as a member of Congress. A native of Greenwood County, South Carolina, he has devoted his adult life to service for his State and Country. He is Vice Chairman of the House of Representatives Committee on Veterans' Affairs. His active interest and leadership in this prestigious committee have resulted in numerous benefits for veterans wounded in defense of their Country. Included in his other Congressional assignments are Secretary of the House Informal Textile Committee and member of the Steering Committee of the House of Representatives. His tireless efforts in protecting the lands of Clemson University from flooding by the Hartwell Reservoir and his assistance in acquiring thousands of acres of forest lands for experimental purposes have contributed substantially to the benefit of Clemson University and the State.

STATES RIGHTS GIST FINLEY

STATES RIGHTS GIST FINLEY is a graduate of Clemson University in the Class of 1918. His dedicated loyalty, enthusiasm and industry in behalf of his Alma Mater have contributed materially to its educational advancement. He is a native South Carolinian who has been a leader in the public utilities industry, having recently retired from active service as Chairman of the Electric Power Board of Chattanooga, Tennessee. He has served as member, director and chairman of numerous civic, professional and charitable organizations, devoting his energies to the benefit of the community and its citizenry.

PAUL HARDIN III

PAUL HARDIN III is the eighth President of Wofford College, Spartanburg, South Carolina. A distinguished educator and teacher, he has served as a member of the faculties of the law schools at Duke University, the University of Texas and the University of Pennsylvania. His scholarly qualities have been demonstrated by extensive writings for law journals and co-authorship of two course books. In addition to serving as the chief executive officer at Wofford College, he is presently a member of the Duke University Board of Trustees and the Board of Trustees of the Junaluska Assembly.
EDWARD FRED KNIPLING

EDWARD FRED KNIPLING is a distinguished scientist whose entire career has centered around the continual improvement of methods for controlling injurious insects and for utilizing to fullest advantage beneficial insects. He is a native of Texas, receiving his undergraduate education at Texas A & M University, and his graduate degrees at Iowa State University of Science and Technology. His service with the United States Department of Agriculture covers a span of almost forty years, and he is presently serving as its Director of Agricultural Research Service. He is a member of many prestigious scientific and professional associations and has been the recipient of numerous distinguished service awards, including the Rockefeller Public Service Award and the National Medal of Science.
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 1969-70 year this title has been earned by three professors. These titles were conferred at a meeting of the General Faculty on May 7.

THOMAS A. CAMPBELL, JR., Professor of Textiles and Head of the Department of Textiles, joined the Clemson University faculty in 1937. He received his Bachelor of Textile Industrial Education degree from Clemson in 1928 and the Master of Science in Industrial Education from Pennsylvania State University in 1947.

After graduation from college he taught at Chester, South Carolina, High School for one year before joining J. P. Stevens and Company as an accountant. He later served as a Textile Cost Engineer with Ralph E. Loper and Company.

At Clemson he served on numerous college and university-wide committees and was especially active in curriculum development for textile education. From 1959 to 1964 he was Head of the Textile Management Department. Two student organizations were formed under his guidance, the Society for the Advancement of Management and the American Association of Textile Technology. He was the first faculty adviser for each.

In addition to his career as a teacher and an administrator, he has served as a consultant to many textile companies as well as an arbitrator for the U. S. Conciliation Service. In 1969 Phi Psi, an honorary textile fraternity, named him "man of the year" for his contribution to the textile industry in South Carolina and to textile education in the United States.

ALAN JOHNSTONE McCUTCHEON, Associate Professor of Civil Engineering, joined the Clemson University faculty in 1956 after serving as an officer in the U. S. Army Corps of Engineers. Professor McCutchen received the B.S. degree from the United States Military Academy in 1928 and the B.S.C.E. degree from the University of California in 1932. From 1936 to 1940 Professor Mc-
Cutchen served as a mathematics instructor at West Point, and since 1956 he has taught construction courses in the Department of Civil Engineering at Clemson.

RAY WATSON RUTLEDGE, Professor of Botany, joined the Clemson faculty as Assistant Professor of Botany in 1946. He was promoted to associate professor in 1947 and professor in 1957. Dr. Rutledge is a native of Alabama. He received the B.S. degree from Union University, the M.A. from Peabody College, and the Ph.D. from the University of Chicago. Prior to coming to Clemson Dr. Rutledge taught at Southwest Texas State Teachers College, Tennessee Polytechnic Institute, and State Teachers College (Florence, Alabama). He is a fellow of the American Association for the Advancement of Sciences and a member of the Botanical Society of America, the Association of Southeastern Biologists, the South Carolina Academy of Science, Sigma Xi and Phi Delta Kappa. During his stay at Clemson Dr. Rutledge has been active in civic improvement and in the program of the Unitarian Church within the community.