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Clemson Commencement Program, May 1970

Clemson University

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CLEMSON UNIVERSITY

Seventy-fourth Commencement

May 8, 1970

Clemson, South Carolina

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

Dennis Lehman Bauknight	Easley	*Stafford Michael Mishoe	Loris
Orren Edward Byrd, Jr.	Hartsville	Thomas Connor Moss, Jr.	Cameron
Larry Dean Cartee	Easley	James Howell Myers, Jr.	Westminster
James Thurman Gordon, Jr.	Mt. Pleasant	William Mobley Reese	Columbia
William Allen Hand	San Antonio, Texas	Ronald Parker Townsend	Anderson

Agronomy

*Elvin Leonidas Bull	Cameron	*Richard Monroe Stepp	Greenville
*George David Pitner	Florence	James Jacob Wheeler III	Saluda
*Thomas Winfield Sawyer	Monetta	Thomas Hampton Wright, Jr.	Dillon

Animal Science

James Merrill Adams	Union	John Franklin McMakin	Lyman
Larry Neal Atkinson	Jefferson	James Oscar Patterson III	Spartanburg
*Charles McHenry Banks	Chester	Robert Saye Riddle	Gastonia, N. C.
Thomas Raymond Henderson, Jr.	McCormick		

Biology

*Bobbie Franklin Ayers, Jr.	Orangeburg	John Nicholas McNair	Jackson
*Robert Morris Clayton, Jr.	Laurens	Margaret Lynn Macaulay	Mt. Morris, N. J.
**James Mack Cloninger	Blackstock	Bruce William Marshall	Claymont, Del.
Donald Edward Collins	Columbia	Rodney Earl Martin	Pelzer
*Marion Scott Cornwell	Ft. Myers, Fla.	*Louis Behrens Mathis, Jr.	Timmonsville
William Wayne Deer	Beaufort	Wilbur Kearse Milhous	Olar
*Kenneth Dale Dykstra	Charlotte, N. C.	Cathy Lou Moss	Blacksburg
Carole Ellis	Fort Mill	Christopher Kent Rash	Anderson
Phillip Harrington Gandy	Hartsville	William Boyd Rhodes III	Charleston
*Gail Louise Hanna	Effingham	Ralph Elliot John Saunders	Dover, N. J.
Ernest Gary Jeffords	Orangeburg	*Donald Thomas Shealy	Seneca
James Leroy Johnson	Claymont, Del.	Frank Joe Singletary	Coward
**Champ McMillian Jones, Jr.	Clemson	Robert Leslie Smalser	Englishtown, N. J.
*Robert George Kelly	Liberty	William Robert Stuart	Clemson
Linda Ruth Kuisma	Iselin, N. J.	Douglas Eugene Waddell	Woodruff
Victor Grainger McKoy	Sumter	**Jerry Craig Waters	Greer

Dairy Science

John Davis Jordan	Olanta	Randolph Edward Senn	Newberry
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Entomology

David Cosby Arnold	West Columbia
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Food Science

***Judith Elaine Beach	Rock Hill	***Linda Marie Parker	Cades
*Thomas Alan Gibson	Clemson	*Charles Clarence Yongue	Columbia

Forestry

Thomas Patrick Dowling	Greenville	James Gary Ramsey	Chesnee
Edmund Gregorie Frampton, Jr.	Georgetown	Ashby Kenneth Smith, Jr.	Murrells Inlet
Benjamin Harrison Green III	Union City, Pa.	Dwight LaVerne Stewart, Jr.	Florence
James John Jensen, Jr.	Livingston, N. J.	William Rutledge Thomas	Carlisle
Isaac Leonard Keller	Clemson	*Walter Virgil Wall, Jr.	Edgefield
Donald Paul Patterson	Frenchtown, N. J.	Henry Neyle Wilson	Sumter

Horticulture

James Corbett Gibson	Newberry	Mary Swaffield Holton	Columbia
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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

Edgar Barber Abrams	Anderson	Richard Leslie Merrick	Northfield, N. J.
Oscar Heyward Bellamy III	Charlotte, N. C.	Charles Harper Mikell, Jr.	Estill
William Timothy Coffey	Aiken	*Glenn Homer Ross	Taylors
Ronald Lenard Ellis	Essex Fells, N. J.	Arthur Henry von Roemer	
John Kwist	Summerville		Colchester, Conn.

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*James Frazier Barker	Kingsport, Tenn.	Albert Bailey Jolly, Jr.	Greenville
Wallace Daniel Beaman	Greenville	*Samuel Linton McCleskey III	Greenville
Steadie Richard Craig	Bethesda, Md.	David Robert Matthews	Westover, Md.
*Robert Marsh Edney	Hendersonville, N. C.	*William Leonard Overstreet, Jr.	Anderson
*William Marion Etheredge	Columbia	Thomas Edward Pope	Pittsburgh, Pa.
Richard Bond Gilpin, Jr.	Savannah, Ga.	Timothy Hammond Powell	Garrett Park, Md.
Phillip Calhoun Goff	Blythewood	Wayne Marshall Reed	Columbia
*Sidney Isaac Hankins III	Knoxville, Tenn.	Ernest Alfred Schichler	Columbia
Mark Edward Hasslinger	College Park, Md.	Larry Clinton Taylor	Johnsonville
*David Newton Hauseman	Decatur, Ill.	Donald Kenneth Terry	Hohokus, N. J.
*Gary Stephen Indyk	West Paterson, N. J.	William Maret Warlick	Columbia
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John Timmons Jeffers	Florence		

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BACHELOR OF ARTS

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Helen Marie Hunnicutt	Clemson	Cheryl Ruth Riddle	Anderson
Elizabeth Diane Jameson	Easley	Janet Marie Stadeli	Clemson
*Patsy Ann Jamison	Conway	Mary Frances Watkins	Greenwood
Jo Jewell King	Piedmont	Pamela Davis Williams	Anderson

Secondary Education

Laura Sharon Alexander	Spartanburg	Jack Herbert King	Wilmington, N. C.
Sonja Jean Bishop	Greenville	Douglas Eugene Limbaugh	Easley
Elizabeth Marie Bowen	Taylors	**Jecnette Dale McAlister	Anderson
James Arthur Brewer	Easley	Joe William McCoy	Easley
James Wilson Brown	Aynor	Patricia Ann Mansfield	Columbia
John Wayne Coker	Edgemoor	Sherry Lynn Marchbanks	Clemson
*Janey Dean Davis	Gainesville, Ga.	Linda Marlene Martin	Clemson
Robert William Fitchett	Baltimore, Md.	**Ann Sinner Mitchell	Burlington, N. C.
Cynthia Gramling Fulmer	Montgomery, Ala.	*Judith Anne Norville	Grover, N. C.
*Bruce Acker Gillespie	Rosemont, Pa.	*Mary Ann Osteen	Anderson
Thomas Hayward Hall	Server, Pa.	Mary Elizabeth Pennington	Starr
*Lydia Lee Hamilton	Greenville	Walter Frank Skilton	Andalusia, Pa.
Kathleen Sharon Jones	Greenville	*Leslie Green Vaughan	Dorchester
*Minnie Clarice Jones	Clover	*Joe Hudson Venable, Jr.	Easley
Sara Rachel Kares	Burton	Kathy Cheryl Watkins	Ware Shoals
Hal Michael Kaylor	Conover, N. C.		

BACHELOR OF SCIENCE

Agricultural Education

(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 ----- Galivants 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.

Recreation and Park Administration

*Robert Earl Barker ----- Conway
Hal Robert Bell ----- Charlotte, N. C.
Roy Eddie Blanchard ----- Aiken
James Hamilton Bull ----- Abbeville
Wilson Warner Cropp -- Charlottesville, Va.
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'Connor --- 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
*Aubrey 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
John Hale Johnson ----- College Park, Ga.
Robert Henry Jolly ----- Winnsboro

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

Chemical Engineering

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

Civil Engineering

James Coley Altman, Jr.	Manning	Cary Durfey McNamara	Alexandria, Va.
Arthur Theron Bass III	North Charleston	**Gleny Surgeon Marshall	Moncks Corner
Daniel Marconi Batten III	Charleston	Harvey Raymond Mathias	West Columbia
Heyward Harles Bouknight, Jr.	Columbia	*George Farquhar Miller, Jr.	Greenville
*David Ronald Brabham	St. Stephen	Paul John Muccino	Seneca
James Larry Buckner	Rosswell, Ga.	Michael Robert Phillips	Charleston
*Michael Glenn Crowe	Marietta	Marion Richardson Rembert, Jr.	Sumter
William Horton Garvin	Greensboro, N. C.	William Henry Sloan	Charleston
Robert Howard Harris, Jr.	Atlanta, Ga.	*Theodore John Spetnagel	Kingsport, Tenn.
Robert Arnold Henning	Scotch Plains, N. J.	Michael Leon Walker	Spartanburg
William Frederick Holle III	LaGrange, Ga.	Bob Young Weathers	Laurens
Oscar Stanley King	Easley	Stephen Lee Wright	North Charleston
John Frederick McCarty	Ware Shoals		

Electrical Engineering

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

Mechanical Engineering

Byron Hansel Barker	Charleston	Jack Quinton Lever, Jr.	Bethesda, Md.
Bernard Arthur Bowen	Anderson	William Welch McCollough	Spartanburg
Robert Anderson Calhoun	Metter, Ga.	Wilbur Joseph Nunes	Greenville
*James Sumter Carter	Fort Lawn	*Coleman Clyde Owens, Jr.	Mt. Pleasant
John Wirt Cook, Jr.	Williamsville, N. Y.	Charles Henry Ratterree III	Spartanburg
Wade Coggins Crow	Spartanburg	Arden William Stewart	Orangeburg
*Robert Francis Drennan, Jr.	Rock Hill	Robert Streator Templeton	Suitland, Md.
Charles Alfred Forsberg III	Charleston	*Mark Harris Tennant	North Augusta
**Dennis Warren Haire	Rock Hill	Harry David Tibbs	Great Falls
Robert Benjamin Hambright	Grover, N. C.	***William Russel Walden	Moore
Samuel LeRoy Herndon III	Hartsville	Robert Windsor Wilson, Jr.	Woodruff
Richard Manning Jamison	Hanahan		

Metallurgical Engineering

Robert Douglas Ainsworth --- Falls Church, Va.

Geoffrey Benjamin Baker --- Alexandria, Va.

BACHELOR OF CIVIL ENGINEERING

Phatphongs Sudasna Ayudhya --- Bangkok, Thailand

COLLEGE OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE

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 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
 William Douglas Evans --- Bluefield, W. Va.
 George Ellison Finkelstein ----- Orangeburg
 Ben Allen Gay ----- Tucker, Ga.
 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

Fritz Isham Merkel ----- Cincinnati, Ohio
 Ronald Joseph Montgomery --- Myrtle Beach
 Robert Simeon Moore, Jr. ----- Atlanta, Ga.
 Eugene Frederick Moyer, Jr. ----- Spartanburg
 John Mullen III ----- Sumter
 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 Thoma -- Piquannock, N. J.
 Jamesine Elaine Thompson ----- Hartsville
 Peter Richard Verdee -- Neptune City, N. J.
 *Jay Stephen Willer ----- Kettering, Ohio
 James Foster Williamson, Jr. ----- Columbia
 Michael Sundy Winburn ----- Patrick

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 Bennett Cornwell III ----- Spartanburg
 Geddes Marvin Cox III --- Fayetteville, N. C.
 Keith Ansel Davis ----- Greenville
 Maynard James Davis, Jr. ----- Winnsboro
 Charles Larry Dickson ----- Sandy Springs
 Floyd Donald Durham ----- Pickens
 *James Franklin Elrod ----- 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
 *Richard Arling Johnson --- Lancaster, Pa.
 Horace Dowling Kinsey ----- Walterboro

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 ----- Belport, 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. ----- Varnville
 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

Textiles

**Randall Elton Bouchillon ---- 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 Rhymer, Jr. ----- Winnsboro

COLLEGE OF LIBERAL ARTS

BACHELOR OF ARTS

John Randal Ashley ----- Belton
James Edward Barbary ----- Simpsonville
**Rachel Alice Blanton ----- Seneca
Phillip Clark Bodle ----- Cincinnati, Ohio
Joseph Dennis Bolt ----- Anderson
Robert Mike Bouknight, Jr. -- West Columbia
Glenn Bowers ----- Lancaster
John Lester Brady, Jr. ----- Spartanburg
John Robert Brock, Jr. ----- Walhalla
Walter Thomas Burris ----- Brooklyn, N. Y.
Marvin Jennings Caughman ----- Columbia
Michael Sean Culder ----- 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 Dyer ----- Seneca
Marshall William Edwards, Jr. ----- Travelers Rest
Glenn Patrick Felton ----- Bayside, N. Y.
Charles Patton Ferguson ----- Rock Hill
James Payton Fields, Jr. ----- McBee
Carolyn Diann Foster ----- Duncan
Wayne Richard Garland ----- Upton, Mass.
Wilbur Norman Ginn III ----- Bethesda, Md.
Mark Harris Goldman -- Woodbridge, Conn.
**Lucille Coursen 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 Janas --- 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 ----- Williamston
Gary Edward Ligi ----- Astoria, N. Y.
*Frances Evans Locklair ----- 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 ----- Rahway, 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 Ray ----- 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 ----- Honec 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	Anita Delaramaux Macaione ----- Abbeville
Nancy McWhorter Barnett --- Lincolnton, Ga.	Danette Wickun Needham --- Milford, Conn.
*Carol Nixon Campbell ----- Anderson	Nancy Margaret Smith --- Greensboro, N. C.
Shirley Janet Causey ----- Mauldin	Janice Gail Rahn Stamps ----- Anderson
Dorothy Louise Crocker ----- Iva	Bennie Sue Strickland ----- Anderson
Catherine Alice David ----- Salters	***Dorothy Juanita Walker ----- Columbia
*Gloria Martin Driver ----- Anderson	Worthlyn Agnes White ----- Columbia
Kathy Mason Henderson ----- Honea Path	*Judith Elizabeth Wright ----- Ward
Bertha Dianne Jones ----- Florence	

COLLEGE OF PHYSICAL AND MATHEMATICAL SCIENCES

BACHELOR OF ARTS

Arts and Sciences

Arthur Jerry Currence ----- York	Angela Cheryl McAlister ----- Union
*Charles Ryan Howard, Jr. ----- Glens Falls, N. Y.	

BACHELOR OF SCIENCE

Chemistry

David Paul Baird ----- Greenville	**Bethany Sharon Franke ----- Spartanburg
**Marshall Lynn Deanhardt ----- Belton	

Geology

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

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

Medical Technology

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

Elisha Remington Baker IV ----- Sumter	Emil William Heikkila, Jr. ----- Clermont, Fla.
*Benny Douglas Bartley ----- Aiken	*Donald Carson Wilson ----- Greenville
*Gordon Heyward Dechman ----- Macon, Ga.	

Pre-Medicine

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

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

MASTER OF INDUSTRIAL EDUCATION

Micah John LaRoche III -- Wadmalaw Island

COLLEGE OF ENGINEERING

MASTER OF SCIENCE

Biengineering

Tommy Lee Bridges ----- Greenville Francis Martin King, Jr. ----- Greenville

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 irregularare* 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

Dissertation: The Mechanism of the Rearrangement of Alkyl Phenyl Ethers: A Study of Intra- and Intermolecular Pathways

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.