

12-19-1968

# Clemson Commencement Program, December 1968

Clemson University

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# CLEMSON UNIVERSITY

Graduating Exercises

December 19, 1968

Clemson, South Carolina

# Graduation

Thursday, December 19, 1968

11:00 a. m. — Littlejohn Coliseum

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## ORDER OF EXERCISES

### Processional

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

### Invocation

The Reverend C. A. Arrington  
Clemson Baptist Church  
Clemson, South Carolina

### Address to Graduating Class

Dr. William M. McCord  
President, The Medical College of South Carolina  
Charleston, South Carolina

### Conferring of Degrees and Delivery of Diplomas

President Robert C. Edwards

### Benediction

Mr. Joseph E. Jackson, Organist



# CANDIDATES FOR BACHELORS' DEGREES

## COLLEGE OF AGRICULTURE AND BIOLOGICAL SCIENCES

### BACHELOR OF SCIENCE DEGREE

#### Agricultural Economics

Belton Kelly Smith ..... Hartsville

#### Agronomy

Thomas Cooper Bishop ..... Kingstree      Henry McCall Swink ..... Effingham  
Charles Edward Mills ..... Clarks Hill

#### Animal Science

Lewis Robert Beckham ..... St. Matthews      Walter Kirkland Pooser, Jr. ..... Cameron  
\*Clyde Robert Cone ..... Ridge Spring      James Michael Thomas ..... Hampton

#### Biology

David Roy Alverson ..... Spartanburg      Maida Anne Owen ..... Berkeley, Calif.  
\*\*Shelley White Barbary ..... Washington, D. C.      \*Linda Fay Ridgeway ..... Greenville  
John Alex Bass ..... Helena, Ga.      Herbert Wayne Smith, Jr. ..... Spartanburg  
George Russell Creech ..... Charleston      John Francis Suber ..... Holly Hill  
Joseph Edwin Evans ..... Murfreesboro, N. C.      Charles George White, Jr. ..... Greenwood  
Henry Pinckney Moore III ..... Orangeburg

#### Food Science

Joseph Conrad Leyh, Jr. .... North Charleston      Karl E. Weingartner ..... New York, N. Y.  
\*Bill Dale Roebuck ..... Marysville, Ohio

#### Forestry

Gerald Ingersoll Carlson II ..... Chalkhill, Pa.      Robert Harvey Ford ..... Great Falls

#### Horticulture

\*Rembert Clark DuBose ..... Ridge Spring      Anna Kathryn Martin ..... North Charleston  
\*Tristan Albert DuBose ..... Monetta

## SCHOOL OF ARCHITECTURE

### BACHELOR OF ARTS DEGREE

#### Pre-Architecture

Thomas Crisp Hipp ..... Spartanburg      Russell John Morse ..... Turtle Creek, Pa.  
John Butler LaFoy ..... Greenville      William Eugene Yoke, Jr. .... Clarksburg, W. Va.

### BACHELOR OF ARCHITECTURE DEGREE

Richard Lynn Doane ..... Kingsport, Tenn.      Warren North Patterson ..... Greenwood  
John Albert Hemphill ..... Charlotte, N. C.      Svern Ulvedal ..... Stamford, Conn.  
Richard Lee Nygard ..... Duluth, Minn.

### BACHELOR OF BUILDING CONSTRUCTION DEGREE

William Blaine Beauchene ..... Summerville      Henry Albert Garbelman ..... Oxon Hill, Md.

## COLLEGE OF ARTS AND SCIENCES

### BACHELOR OF ARTS DEGREE

Brenda Gail Addis ..... Walhalla      \*Jerry Arthur Mobley ..... North Charleston  
\*Bjorn Arne Ingvar Anzen ..... Fagersta, Sweden      Alan Frederick Mohrmann ..... Ridge Manor, Fla.  
Martha Carrie Atkins ..... Boonville, Ind.      Donna Divincenzo Moore ..... Bowling Green, Ky.  
Furman Daniel Bryant ..... Sumter      Marilyn Ann Ott ..... Greenville  
Philip Arrington Chovan ..... Clinton, Md.      Richard Alan Pederson ..... Alexandria, Va.  
Linda Sue Fowler ..... Ft. Lee, Va.      Jeffrey King Randel ..... Clemson  
Evangeline Becky Georgeo ..... Mt. Pleasant      Mathias Bealy Richardson ..... Pendleton  
Nelson Kinsey Gibson ..... Hartsville      Carol Thompson Rodgers ..... Greenville  
\*Frances Nash Harmon ..... Clemson      \*\*\*Margaret Sara Uller ..... Miami Beach, Fla.  
Patrick Ryan Hawkins ..... Greer      Michael William Vento III ..... Beaver, Pa.  
\*Madeline Morgan Knowles ..... Spartanburg      \*Dolores Ann Violette ..... Lake City  
Grayson Poats Lane ..... Clemson      Wilbert Ronald Williams ..... Camden  
\*\*Kathy Harrell Merritt ..... Clemson  
Benjamin Thomas Michael ..... Clemson



## BACHELOR OF SCIENCE DEGREE

### Geology

Terry Lowell Jackson ..... Greenville      Arthur Marvin Maybin III .. Kings Park, N. Y.  
Frank Xavier Kuhn III ..... Springfield, Va.

### Mathematics

William Dever Davis ..... Gaffney      Martha Aldana Stuart ..... Columbia  
\*John Henry Reeves, Jr. .... Greenville

### Medical Technology

Emma Jane Buckland ..... Boone, N. C.      James Michael Twombly ..... Sumter

### Physics

\*Herbert Eugene Boyd, Jr. .... West Asheville, N. C.

### Pre-Medicine

Richard Lemont Dales ..... Columbia	***Barnwell Rhett Myers III ..... Pickens
Paul Douglas Fernandez .... Englewood, N. J.	Kirby Doerr Raines ..... Charleston
Charles Rogers Hook ..... Manning	Edward Hacker Robertson III .. Mt. Pleasant
William Jay McAninch ..... Spartanburg	Caleb Lee Trexler, Jr. .... Concord, N. C.
*Stephen Joseph Morrison .. Thunderbolt, Ga.	Frank Henderson Turpin ..... Americus, Ga.

## SCHOOL OF EDUCATION

### BACHELOR OF ARTS DEGREE

#### Elementary Education

***Susan Lindsay Bishop ..... Clemson	**Sally Masters Seigler ..... Anderson
Teresa Francine Matthews ..... Greenville	***Elizabeth Lewis Stanzione ..... Hartsville
Rebecca Timmerman Payne ..... Greenville	Jean Tooley Wade ..... Duncan

#### Secondary Education

Richard Glenn Dodson ..... Piedmont	Violet Scott Klein ..... Anderson
ViKary Ellen Fins ..... Columbia	Larry Lovette Nazry ..... Columbia
Kirsten Maureen Garrett ..... Spartanburg	William David Patrick ..... Winnsboro
Erika Andrea Helfer ..... Columbia	Ruth Ann Terry ..... Anderson

### BACHELOR OF SCIENCE DEGREE

#### Agricultural Education

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

John Robert Crawford ..... Saluda	Calvin Thompson Robertson ..... Laurens
Roger Dale Hayes ..... Travelers Rest	*Michael Ellis Roddey ..... Chester
Roy Patton McFadden ..... Catawba	John Samuel Shirley ..... Seneca
Richard Lewis Minchew ..... Saluda	

#### Industrial Education

Richard Himes Bellflower .... Asheville, N. C.	George Henry Theodore Hoffmeyer .. Florence
Samuel Hilton Bishop ..... Spartanburg	Samuel Boyd Sexton ..... Woodruff
Marshall Wayne Condrey ..... Inman	Jimmy Dunlap Snoddy, Jr. .... Wellford
Edmund Bellinger Gregorie III ..... Easley	

#### Recreation and Park Administration

Leland Earle Anderson, Jr. .... Clemson	Albert Adams Hinson ..... Thomaston, Ga.
George Franklin Baughman ..... Abbeville	James Milton Hudgens, Jr. .... Union
Wallace Charlton Brittain ..... Hendersonville, N. C.	Earl Michael McGill ..... Blacksburg
James Harley Burton ..... Leesville	Malcolm Jaudon O'Neal ..... Fairfax
David Martin Hansen ..... Charleston	Alvin Vance Riley, Jr. .... Gastonia, N. C.
	Gregory Carlyle Schoper .. Huntsville, Ala.

#### Science Teaching

Ivan French Kelley III ..... North Charleston	James Hiram Lowe ..... Edgefield
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## COLLEGE OF ENGINEERING

### BACHELOR OF SCIENCE DEGREE

#### Ceramic Engineering

John Frederick Alexander, Jr. ....	Clemson	John Weston Cotton .....	Columbia
Gary Robert Alfred .....	Easley	Kenneth Rodney Dunham .....	Nutley, N. J.
Johnny Hopper Blackmon .....	Lancaster	Ben Colclough Jeffords .....	Orangeburg
Woods Wannamaker Burnett .....	Columbia	James Edmond Vissage, Jr. ....	Greenville

#### Chemical Engineering

Albert Eugene Johnston III .....	Greenville	Benjamin Franklin Williams .....	Dillon
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#### Civil Engineering

Lewis Eldridge Aston .....	Charleston Heights	Samuel Sturkie Jackson .....	Pellon
Michael Keith Bantz .....	North Charleston	Joseph Stanford Jacobs III ..	Gastonia, N. C.
Robert Field Binford, Jr. ....	Charleston	Douglas Carroll Johns .....	Taylors
Muhammad Tufail Chaudhri .....		Rudolph Maurine Jones, Jr. ....	Sumter
.....	Lahore, West Pakistan	Joseph William Jordan .....	Mullins
Thomas Joe Coyle .....	Easley	Charles Lewis Matthews .....	North Charleston
Charles Richard Donohoe .....		Joel Oscar Tyner .....	Florence
.....	West Long Branch, N. J.	James William Walker, Jr. ....	Decatur, Ga.
Robert Fredrick Edmonds, Jr. ....	Pickens	John Richard Ward .....	Sarver, Pa.
Robert McPherson Glenn, Jr. ..	Hartwell, Ga.		

#### Electrical Engineering

George Frank Bell, Jr. ....	Hartsville	Emile N. Rasheed .....	Beit Mery, Lebanon
Norbert John Borke, Jr. ....	Charleston	John Felix Shouse, Jr. ....	Clemson
James Howard Brandon, Jr. ....	Clover	Andrew Paul Smith, Jr. ....	Pinopolis
Arthur Franklin Cochcroft, Jr. ....	Newberry	*Skippy Jerry Townsend .....	Abbeville
Patrick Warren Huntley .....	Asheville, N. C.	James Harold Tuck .....	Greenville
Kenneth Morrison .....	Anderson	James Uzell Watts III .....	Darlington
William Ray Phillips, Jr. ....	Taylors		

#### Industrial Engineering

Donald Floyd Collins .....	Toccoa, Ga.	Herbert Alfred Johnson, Jr. ....	Simpsonville
Richard Allan Conklin .....	Clearwater, Fla.	*Karl Franklin Stroup .....	Gastonia, N. C.
Charles Dean Hardister .....	Easley		

#### Mechanical Engineering

Roy Henry Bredal, Jr. ....	Spartanburg	Eldon David Luft .....	Penrose, N. C.
Roland Lee Brown .....	Spartanburg	Kenneth Michael Montjoy .....	Woodruff
John Steven Coons .....	Glenview, Ill.	Thomas Clifton Newman .....	Sumter
John Daniel Fralick .....	Walterboro	*Ronald Eugene Power .....	Jacksonville, Fla.
Theodore Edward Jones, Jr. ....	Anderson	Robert Edward Pruett .....	North Augusta
Robert Cranston Justis, Jr. ....	Wilmington, Del.	William Evans Reynolds, Jr. ....	Sumter
Thomas Preston Lane, Jr. ....	Greenville	David Elwood Strickland ..	Jacksonville, Fla.
*Lynn Robert Lease .....	Clemson	Joseph Jordan Tankersley .....	Greenville
Thomas Broome Lee .....	North Augusta		

## SCHOOL OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE

### BACHELOR OF ARTS DEGREE

#### Arts and Sciences

William Charles Biediger .....	Greenville	Wiley Harris Johnson, Jr. ....	Spartanburg
Harry Frederick Byers, Jr. ....		Robert Joseph King .....	River Edge, N. J.
.....	Hendersonville, N. C.	Jerry Eugene McGee .....	Langley AFB, Va.
David Lee Campbell .....	Haddonfield, N. J.	Kenneth Vander Madren, Jr. ....	Charleston
Dennis Gerald Danko .....	Pittsburgh, Pa.	Patricia Ann Mangum .....	College Park, Ga.
James William Engram .....	Columbia	Roger Leroy Pedrick .....	Anderson
Gary William Engstrom ..	Cedar Grove, N. J.	Daniel Harlan Rhodes .....	Anderson
Jack William Erter, Jr. ....	Sumter	Bruce Trimble Rhyne .....	College Park, Ga.
Hans Charles Otto Felge .....		Truman David Roper .....	Columbia
.....	Ft. Lauderdale, Fla.	Joseph Warren Sellers III .....	Jackson, Ga.
James Curtis Floyd .....	Georgetown	Jon Emmett Shuler .....	Clemson
Calvin Lewis Hudson .....	Asheville, N. C.	Jack Bruce Swerling .....	Belleville, N. J.
Larry Ronald Huffman .....	Greenville	Douglas Len Walker .....	Kershaw
Harold Lemoine Johnson .....	Alexandria, Va.		



## BACHELOR OF SCIENCE DEGREE

### Industrial Management

Russell Hiles Abernethy — Garden City Beach  
Peter William Angelakos — Laurens  
Barry Kay Aughtry — Lyman  
John Randolph Bettis, Jr. — Charleston  
Jay Craft Bobo — Anderson  
Thomas Olin Brock — Hodges  
Harvey Ronnie Burgess — York  
Charles Fredrick Busch — Walhalla  
Dwight Benton Cochran — Ware Shoals  
Carol Duckett Copeland — Clinton  
James Franklin Cox III — Charleston  
Peter Alexander Crawford — College Park, Ga.  
William Lloyd Crosby — Cedar Grove, N. J.  
Joseph Edgar Crosland, Jr. — Greenville  
James Harvey Evans — Charleston Heights  
William Folk Evans, Jr. — Alexandria Va.  
Timothy Powell Finn — Greenville  
James Felton Folsom — Adel, Ga.  
Benny Elbert Gilliard — Greenville  
Thomas Elmo Hall — Martinsville, Va.  
Keith Frederic Heintz — New Providence, N. J.  
\*John Kirkland Hind — Clemson

Charles Henry Houck — Allendale  
Michael Ralph Howard — Apollo, Pa.  
Charles Wesley Hunter — Hendersonville, N. C.  
William Joseph James — Toms River N. J.  
Daniel Ray Johnson — Augusta, Ga.  
Ronald Wayne Jones — Greenville  
Michael Sidney Lipscomb — Roebuck  
George Michael Long — Augusta, Ga.  
Gerald Kenneth McAlister — Anderson  
Michael Fleming Mickelson — Perry, Fla.  
James Arthur Mishoe — Columbia  
Jimmy Earl Nolan — Easley  
Hodgdon Christian Nuckols, Jr. — Columbia  
Lester Pete Sherbert — Woodruff  
Gilmer Lee Snipes, Jr. — Seneca  
Carl Leslie Tarpley II — North Charleston  
Henry Stephen Trammell — Charlotte, N. C.  
\*Jerry Eugene Trapnell — Metter, Ga.  
Gerald Luther Truluck — Lynchburg  
Bob Louis Wielenga — Paterson, N. J.

### Textile Chemistry

Paul John Kozma — Staten Island, N. Y. Robert William Millar — Pickens

### Textile Management

William Joseph Kennedy III — Beaufort

### Textiles

Roland Lee Connelly — Spartanburg  
Lawrence Oliver Goldstein — Spartanburg  
Raymond Dean McDonald — Rock Hill

Herbert Bays Moore, Jr. — Rock Hill  
Victor Neil Robertson — Taylors  
Roy Allen Smith — Pageland

\*With honor

\*\*With high honor

\*\*\*With highest honor

## CANDIDATES FOR MASTERS' DEGREES

### COLLEGE OF AGRICULTURE AND BIOLOGICAL SCIENCES

#### MASTER OF SCIENCE DEGREE

##### Agricultural Economics

Clayton Grant — Dahlgene, Ga.  
John William McAlhany — Reevesville

Joseph Adams Malcom — Social Circle, Ga.

##### Agronomy

Charles William Robinson — McDonald, Pa.

##### Entomology

Allan Travers Bullard — Mount Kisco, N. Y.

##### Forestry

Woodrow Greene Strock, Jr. — Cope

##### Horticulture

Larry Julian Smith — Lake View

James Brice Waters — Rodman

##### Zoology

William Kenneth Reisen — Little Silver, N. J.  
Pamela Jean Ely Rhyne — Narberth, Pa.

Lawrence Harvey Robinson — Columbia



## SCHOOL OF ARCHITECTURE

### MASTER OF ARCHITECTURE DEGREE

John Murphy Crowell ..... Columbia

## COLLEGE OF ARTS AND SCIENCES

### MASTER OF ARTS DEGREE

#### English

Faye Penland Cowan ..... Iva ..... Kathleen English Jennings ..... South St. Paul, Minn.

#### History

Albert Easton Glenn, Jr. .... Starr

### MASTER OF SCIENCE DEGREE

#### Mathematics

Daniel Bruce McCallum ..... Shreveport, La. .... Dwight Wilson Polk ..... Charleston

#### Physics

Winston Earl Faust ..... Rome, Ga. .... Anthony Andrew Kloba ..... Justice, Ill.  
George Robert Fletcher, Jr. .... Rome, Ga. .... Ronald Irvine Miller ..... Clarksville, Tenn.

## SCHOOL OF EDUCATION

### MASTER OF EDUCATION DEGREE

Ronnie Dan Eaddy ..... Taylors ..... James Clark Magee ..... Greenville  
Mary Anne Herndon ..... Clemson ..... Royce Milton Melvin ..... Anderson

### MASTER OF INDUSTRIAL EDUCATION DEGREE

Carroll Eugene Garrison ..... Greenville ..... Arthur Stiefel West ..... Columbia  
Jack Lamar Hunter ..... Easley ..... George Clayton Whelchel ..... Norris

## COLLEGE OF ENGINEERING

### MASTER OF SCIENCE DEGREE

#### Bioengineering

Wayne Douglas Torrey ..... Denver, Colo.

#### Ceramic Engineering

James Robert Booth ..... New Kensington, Pa. .... James Elmer Williamson, Jr. .... Ware Shoals  
William Otis Cullum, Jr. .... Columbia

#### Chemical Engineering

John Reeves Grubbs, Jr. .... Kingstree ..... Lexie Daniel Walters ..... Greenville  
Gary Norman Mock ..... Spartanburg ..... Thomas Benton Young ..... Greenville

#### Civil Engineering

Henry Lee Holshouser, Jr. .... Charlotte, N. C. .... William Rodger McCombs ..... Surfside Beach  
Neil Frederick Katz ..... Pittsburgh, Pa.

#### Electrical Engineering

Aaron Strother Collins ..... Walhalla ..... William Albert Larsen, Jr. .... Greenville  
Dudley Columbus Edgemon ..... Englewood, Tenn. .... James Herbert Rash, Jr. .... Anderson

#### Engineering Mechanics

John Jin-Jau Shi ..... Taipei, Taiwan

#### Environmental Systems Engineering

Frank Patrick Gallagher III ..... Colin George Grieves ..... Stockton-on-Tees, England  
..... New Orleans, La.  
William Earl Gilbert ..... Greenwood ..... Daniel Charles Stanzione ..... Hartsville

#### Mechanical Engineering

George David Alexander ..... Columbus, Ga. .... Elton Eugene Mitchell, Jr. .... Okmulgee, Okla.  
Robert Fleetwood Epps III ..... Lake City

#### Water Resources Engineering

Richard Martin Greening ..... East Northport, N. Y.



## SCHOOL OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE

### MASTER OF ARTS DEGREE

#### Economics

John Foeter Bean ..... Lynchburg

### MASTER OF SCIENCE DEGREE

#### Industrial Management

George William Benedict ..... Duquesne, Pa.      Michael Jones Maxwell ..... Greenville  
Samuel Claude Martin ..... Easley      Juan Gustavo Moreno ..... Medellin, Colombia

#### Textile Chemistry

Hubert Jennings Booth ..... Hartsville      James Easton Hendrix ..... Pensacola, Fla.

#### Textiles

Ramesh Chander Jain ..... New Delhi, India

## CANDIDATE FOR DOCTORS' DEGREES

### COLLEGE OF AGRICULTURE AND BIOLOGICAL SCIENCES

#### DOCTOR OF PHILOSOPHY DEGREE

##### Agricultural Economics

Bobby Hugh Robinson ..... Fairfax, Va.  
B.S., Berea College; M.S., North Carolina State University  
Dissertation: An Economic Analysis of the Effects of Changing Technology and Government Cotton Programs on Farm Income and Organization, Upper Coastal Plain, South Carolina

### COLLEGE OF ARTS AND SCIENCES

#### DOCTOR OF PHILOSOPHY DEGREE

##### Chemistry

John Ashley Alford ..... Conway  
B.S., University of South Carolina; M.S., Clemson University  
Dissertation: Stereochemistry of Abietic Acid Derivatives

Joseph Henry Cecil ..... Louisville, Ky.  
B.S., University of Louisville; M.S., Clemson University  
Dissertation: Reactions of Some Acylquinolones

##### Mathematics

Donald Milton Bardwell ..... Robert, La.  
B.S., Southeastern Louisiana College; M.S., Clemson University  
Dissertation: Combinatorial Designs and Geometric Constraints

##### Physics

Thomas Parker Bishop ..... Richland, Ga.  
B.S., Carson Newman College; M.S., Emory University  
Dissertation: Optical Reorientation of V<sub>k</sub> Centers in Potassium Chloride

William James Chervenak ..... Louisville, Ky.  
B.S., M.S., John Carroll University  
Dissertation: A Study of Relativistic Many Particle Systems

Hoyle Mitchel Simpson ..... Concord, N. C.  
B.S., Pfeiffer College  
Dissertation: Production and Recovery of Electron Radiation Damage in Aluminum

### COLLEGE OF ENGINEERING

#### DOCTOR OF PHILOSOPHY DEGREE

##### Engineering

Lyman Lyle Holland ..... Holland, Va.  
B.Ch.E., University of Virginia; M.S., Clemson University  
Dissertation: The Effect of Mixing on the Growth Kinetics of *Chlorella Pyrenoidosa* Tx71105 in a Parallel Plate Flow Photosynthetic Gas Exchanger Under Conditions of Low Intensity Illumination (Field of Specialization: Chemical Engineering)

Perry Sprawls, Jr. ..... Williston  
B.S., M.S., Clemson University  
Dissertation: The Development and Analysis of a Computer Method for the Interpretation of Radioisotope Distribution Patterns (Field of Specialization: Bioengineering)