

8-8-1987

# Clemson Commencement Program, August 1987

Clemson University

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# CLEMSON UNIVERSITY

Graduation Exercises

August 8, 1987

Clemson, South Carolina

# GRADUATION

Saturday, August 8, 1987

11:00 a. m. Littlejohn Coliseum

## Order of Ceremonies

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

### Invocation

Jeffrey C. Clayton  
Presbyterian Student Association

### Conferring of Honorary Degrees

### Address to Graduating Class

Lee M. Thomas  
Environmental Protection Agency

### Conferring of Degrees in Course and Delivery of Diplomas

President Max Lennon

### Welcome to New Alumni

George M. Moore  
Executive Officer, Alumni Relations

### Benediction

Frank W. Breazeale, Organist

Visitors are not allowed on the floor of the coliseum for photographic or other purposes until after the commencement address. Access to the floor of the coliseum will be allowed beginning with the conferring of degrees of the undergraduate candidates.

You are requested to refrain from loud expressions of pleasure for individual graduates. Such expressions frequently detract from the recognition due the next graduate in line.

Your cooperation is respectfully but urgently requested.

## **HONORARY DEGREE**

### **DOCTOR OF HUMANITIES**

**JAMES RUTHERFORD FAIR, JR.**

Dr. James R. Fair, Jr., educator, engineer, author and historian has received world-wide recognition for his contributions to the development of separations technology, which is fundamental to the chemical industry and one of the cornerstones of the chemical engineering profession.

Although born in Charleston, Missouri, Dr. Fair has family roots in upstate South Carolina. His father was born and reared in Newberry, and Dr. Fair lived there as a youngster in the late 1920s.

Dr. Fair attended The Citadel before transferring to Georgia Tech to earn a Bachelor of Science Degree in chemical engineering. He earned a master's from the University of Michigan and a doctorate from the University of Texas, also in chemical engineering.

He joined the Monsanto Chemical Company in 1943, achieving notable success in the company and eminence in his profession. He rose to Director of Technology with Monsanto before taking his talents to academia in 1979 when he joined the University of Texas.

Dr. Fair has received numerous major awards for excellence in professional practice from the American Institute of Chemical Engineers. He is a member of the National Academy of Engineering, and of several professional and honorary organizations. A prolific contributor to the chemical engineering literature with more than 100 technical publications, mostly in the area of separation processes, he still remains vigorously active in research.

He is holder of the John J. McKetta Centennial Energy Chair in Engineering of the Department of Chemical Engineering at the University of Texas at Austin. He is head of the University's Separations Research Program, a consortium of 37 industries who sponsor research in separations technology. Started by Dr. Fair four years ago, the program is the largest of its kind in the world.

A popular professor who loves to teach, Dr. Fair has won many teaching awards. He is a sought-after lecturer and consultant who travels all over the world to share his knowledge and expertise. His continuing education course on separations technology has been given more often than any other American Institute of Chemical Engineers' course.

Dr. Fair has served on numerous university advisory boards (including that of the Clemson's Chemical Engineering Department), and on editorial advisory boards for several professional journals. He has an honorary doctorate from Washington University in St. Louis.

Complementing his professional career is a lifelong interest in trains and railroading that dates back to his childhood days in Newberry. His great-grandfather, Simeon Fair, was a prominent railroad builder in the Newberry area. Dr. Fair has written one book and several articles on railroading. He has done research on South Carolina railroads and prepared a history of one that runs even today from Columbia to Laurens operating under Seaboard CSX Weston System.

Through his technical expertise and leadership in his profession, Dr. Fair has contributed greatly to a better quality of life throughout the world. Clemson University is honored to award this honorary doctoral degree to Dr. James R. Fair, Jr., in recognition of his distinguished achievements.

## HONORARY DEGREE

### DOCTOR OF LAWS

#### LEE MULLER THOMAS

Lee Thomas, dedicated and outstanding public servant, distinguished American and South Carolinian, is administrator of the U. S. Environmental Protection Agency.

Mr. Thomas has served as the chief protector of our nation's environment and public health since 1985 when he was appointed to head the agency by President Ronald Reagan. He was unanimously confirmed by the Senate.

Mr. Thomas is the President's principal adviser on environmental matters and serves as the Administration's chief spokesman in this area. The agency is responsible for administering and enforcing 13 federal statutes dealing with environmental protection, including the Clean Water Act, the Clean Air Act, and laws concerning toxic waste, and toxic chemicals and pesticides. He directs a research and development program for environmental improvement and spearheads international efforts aimed at solving global environmental problems.

As EPA chief, Mr. Thomas oversees a program with 14,000 employees and an annual budget of more than \$5 billion. The agency has 10 regional offices and 31 laboratories.

A great tribute to his leadership, knowledge and commitment to a cleaner and safer America was the passage of the landmark Superfund legislation last year to support a toxic waste cleanup program five times the size of the previous effort. Mr. Thomas played the pivotal role in the passage of this law, which was a major step not only toward saving and restoring the country's precious natural resources but also in protecting the health and very lives of its citizens.

His philosophy and management style have enabled him to effectively carry out his duties and have earned him the respect of both environmental groups and the nation's business community.

Mr. Thomas, who is from Ridgeway in Fairfield County, studied engineering at Clemson in the sixties, earned a bachelor's degree in psychology at the University of the South at Sewanee, Tenn., and began working as a juvenile probation officer. He later earned a master's degree in counseling at the University of South Carolina.

His federal career of public service began in 1981 when he was called to Washington by President Reagan to serve as associate director of the Federal Emergency Management Agency and went on to become its executive deputy director. His move to the national scene followed an exceptional period of state public service in South Carolina which included five years as executive director of the Office of Criminal Justice Program, Office of the Governor, and then several years as director of the Division of Public Safety Programs, Office of the Governor.

For the past 20 years Lee Thomas has held positions of public trust, each of which has carried a larger challenge and required a greater commitment. Each time he has responded in a manner which has made him a model for public servants functioning in the complex social, political and technical environment of this age. It has been said that his vision, leadership and professionalism will have a major positive impact on the quality of our environment for generations to come.

Clemson University holds him and his achievements in the highest regard. It is a privilege for all of us to honor not only a good Clemson friend, but a man who has contributed so much of himself to improving the quality of life of his fellow man.

## CANDIDATES FOR BACHELORS' DEGREES

### COLLEGE OF AGRICULTURAL SCIENCES

STEPHEN RICHARD CHAPMAN, Acting Dean

#### BACHELOR OF SCIENCE

##### Agricultural Education

Robert Earl Myers, Jr. \_\_\_\_\_ Lynchburg

##### Agricultural Mechanization and Business

James Graham Farmer \_\_\_\_\_ Florence George Foster Senn, Jr. \_\_\_\_\_ Newberry

##### Agronomy

Eric Buel DuBose \_\_\_\_\_ Monetta Patrick Alfred Owens \_\_\_\_\_ Barnwell

##### Economic Biology

Alfred Casburn Johnson, Jr. \_\_\_\_\_ Gastonia, N. C. Matthew Earle Thomas \_\_\_\_\_ Charleston  
Adam Howard Morgan \_\_\_\_\_ Columbia

##### Horticulture

Richard Lancaster Maness \_\_\_\_\_ Florence Ross Gregory Weed \_\_\_\_\_ Irmo

### COLLEGE OF ARCHITECTURE

JAMES FRAZIER BARKER, Dean

#### BACHELOR OF SCIENCE

##### Building Science and Management

\*Bjorn Arthur Luff Swenson \_\_\_\_\_ Roswell, Ga.

##### Design

Francis Huber Bain \_\_\_\_\_ East Hampton, N. Y. Ann Marie Harney \_\_\_\_\_ Scotia, N. Y.  
Gregory Charles Burchard \_\_\_\_\_ Chapel Hill, N. C. Glenn Hayes Lewis \_\_\_\_\_ Burlington, N. C.  
Charles Schell Carson \_\_\_\_\_ Columbia David Andrew Reilly \_\_\_\_\_ Upper Montclair, N. J.  
Jefferson DuBose Fort \_\_\_\_\_ Sumter Floyd Eugene Sides, Jr. \_\_\_\_\_ Newberry

#### BACHELOR OF ARCHITECTURE

Edward Leon Abraham \_\_\_\_\_ Greenwood

### COLLEGE OF COMMERCE AND INDUSTRY

RYAN CUSTER AMACHER, Dean

#### BACHELOR OF ARTS

##### Economics

Marcus Charles Black, Jr. \_\_\_\_\_ Fayetteville, N. C. Robert Nelme Shelton \_\_\_\_\_ Greensboro, N. C.

#### BACHELOR OF SCIENCE

##### Accounting

Alberto Antonio Alvarez \_\_\_\_\_ Bowie, Md. Marvin Joseph Johnson \_\_\_\_\_ Summerville  
Stephen Lynn Bomar \_\_\_\_\_ Greenville Rajan Laljee Kotecha \_\_\_\_\_ Greenville  
Mary Elizabeth Brock \_\_\_\_\_ Anderson Lisa Ann Layton \_\_\_\_\_ Stuarts Draft, Va.  
Kyle Royce Carter \_\_\_\_\_ Seneca Marilyn Michelle Massey \_\_\_\_\_ Aiken  
Walter Christopher Castro \_\_\_\_\_ Central Stephen Michael Rumble \_\_\_\_\_ Hanahan  
Rhonda Lynn Clinkscales \_\_\_\_\_ Anderson Donna Jean Simpson \_\_\_\_\_ Anderson  
Gary Michael Conner \_\_\_\_\_ St. Louis, Mo. Angela Kay Springs \_\_\_\_\_ Union  
Kymberlye Fawne Davidson \_\_\_\_\_ Greenwood Ansel Howard Warren \_\_\_\_\_ Clemson  
Donna Maria Drinon \_\_\_\_\_ Williston Fred Donald Wessel \_\_\_\_\_ Greenville  
Faye O'Quinn Dyer \_\_\_\_\_ Seneca Belva Dyan White \_\_\_\_\_ Marion  
Deborah Latonia Harris \_\_\_\_\_ Augusta, Ga. \*Elizabeth Barrett Woodard \_\_\_\_\_ Aiken  
Sandra Kaye Hopkins \_\_\_\_\_ Mauldin

##### Economics

Shawn Michael Burke \_\_\_\_\_ Lawrenceville, N. J. Edwin Burtis Crow \_\_\_\_\_ Florence

#### **Financial Management**

Bradley Wilton Brooks	Simpsonville	David Matthew Nicoletti	Ringo, N. J.
Thomas Armour Connors	Greenwood	John Michael Padgett	Cincinnati, Ohio
Wayland Paul Craven	Dillon	Robert Lee Peeler, Jr.	Anderson
Mary Catherine DuRant	Olanta	Lucynthia Colene Rogers	Williamston
Gene Ann Gerdng	Rumson, N. J.	Antonette Smith	New Zion
Margaret Elizabeth Hendrix	Anderson	Gregory Manning Sox	Columbia
*Jo Ellen Howle	Camden	Peter William Stebbins	Silver Spring, Md.
Jeffrey Lee Jennings	Spartanburg	Andrew Joseph Stull	Wilmington, Del.
John Wesley Lowrance	Richmond, Va.	Elliott Glenn Yates	Lexington, Ky.
Kenneth Alexander McLeod	Columbia		

#### **Industrial Management**

Timothy James Carter	Ft. Myers, Fla.	Allyn M. Sacane	Wall Township, N. J.
David Denny Curry III	Gaffney	John Riley Stephens	Decatur, Ga.
Michelle Olivia Jordan	Atlanta, Ga.	Andrew Eugene Targonski	Sumter
Kevin Ackley Kirkbride	Raleigh, N. C.	Marion Bradford Tisdale	Spartanburg
William Frederick Moorhead III	Sumter	Christopher Matthew Troy	Westfield, N. J.
Samuel Frederick Richey III	Hartsville	Thomas Franklin Turner	Winston-Salem, N. C.
Martin Sanford Rogers	Pickens		

#### **Management**

Michelle Annette Bannister	Columbia	Douglas Anthony Marchal	Dayton, Ohio
Mary Turner Dean	Greenville	Mary Catherine Meyerson	Sacramento, Cal.
Andrew Holmes Donaldson	Mt. Pleasant	Lisa J. Miller	Clemson
Kenneth Wayne Dorrity	Greenwood	Sharon Ann Mullinax	Hanahan
Karen Frances Dowdle	Clinton	Michael Andrew Newell	Bristol, Tenn.
Stacey Staphon Driver	Griffin, Ga.	Lisa Ann Nine	Greenville
Christopher Joseph Fenwick	Greenville	Victoria Ponder Rauton	Clemson
Pamela Jo Foust	Westerville, Ohio	Allison June Rhoden	Greenville
Douglas Clark Gillespie	Anderson	Phoebe Carol Sanders	Camden
James Robert Godwin	Charleston	Paul Andrew Schlosser	Hilton Head
Jill Ann Hartung	Marietta, Ga.	Ashley Barron Segal	Rock Hill
John Michael Jollay	Tucker, Ga.	Kimberly Anne Steinbrecher	Pickens
George Franklin League IV	Greenville	Allison Weeks	Aiken

#### **Marketing**

\*Martha Alice Skelley Clemson

#### **BACHELOR OF TEXTILE TECHNOLOGY**

Paul Wayne Garrison Winston-Salem, N. C.

### **COLLEGE OF EDUCATION**

**JAMES EDWARD MATTHEWS, Dean**

#### **BACHELOR OF ARTS**

##### **Early Childhood Education**

Jennifer Lynne Cruikshank	Rumson, N. J.	Amy Marie Roberts	Kershaw
Ginger Swaney Ellenberg	Seneca	Macie Allison Young	Columbia
Theresa Ann Maiden	Piedmont		

#### **Elementary Education**

*Allison Eve Bell	Williamston	Caroline Stokes Kirkley	Greenville
Sherri Lynn Browning	Easley	Ann Maria McGaha	Anderson
Linda Sue Fawley	Columbia	***Dianne Moore Prioletti	Anderson
Lisa Ellen Ipock	Manning	Deborah Elaine Thompson	Anderson
Lynn Michelle Julian	Taylors		

#### **Secondary Education**

Leslie Amanda Brooks	Rock Hill	Keith Blair Patterson	Elkton, Md.
Melissa Gail Campbell	Greenwood	Patricia Carolyn Scyphers	West Columbia
Louann Davis	Anderson	Katherine Williams Vinson	Seneca
Margaret Anne Hall	Anderson		

**BACHELOR OF SCIENCE**  
**Graphic Communications**

Timothy Paul Crawford	Hanahan	Dana Jo Prado	Murrells Inlet
Bryan Earl Dyer	Central	Patricia Merritt Sanders	Anderson
James Robert Hailey	Rock Hill	John Mark Scott	Clinton
Pamela Lynn Howes	Camden		

**Industrial Education**

Anthony Marshal Bridges	Simpsonville	Anthony McSwain	Caroleen, N. C.
Sebastian Browning	Lithonia, Ga.		

**Science Teaching**

Walter Alexander Mayfield III	Anderson	*Mark Earl Reynolds	Rockville, Md.
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**COLLEGE OF ENGINEERING**

**JOSEPH CHARLES JENNETT, Dean**

**BACHELOR OF SCIENCE**

**Agricultural Engineering**

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

George Long Evans	Spartanburg
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**Ceramic Engineering**

William Pitts Byrd, Jr.	Laurens	Tanya Louise Schnau	Pickens
Karen Marie Mancini	Belton	Warren Hamilton Strange, Jr.	Sumter
William Buford Meeks III	Spartanburg		

**Chemical Engineering**

Michael Grant Avant	Florence	John S. Hong	Surfside Beach
Robert Ray Biggerstaff, Jr.	Clemson	Tiffany Lee Porter	North Augusta
Dan Greene Bradley, Jr.	Birmingham, Ala.	Bart George Schile	Walhalla
David Alan Gillespie	Aiken	Ricardo Ernesto Siu	Panama

**Civil Engineering**

Byron Philip Blackstock	Chesnee	Robert Thomas Guss	Hilton Head
Wendy Gail Blizzard	Charleston	Donna Jeannine Knighton	Pauline
Frederick Roland Broome, Jr.	Augusta, Ga.	Jeffrey Hewett Moore	Mills River, N. C.
Geoffrey Lin Ciniero	Columbia, Md.	Waylan Prince Nicholson	Hayesville, N. C.
Douglas Holmes Gingrey	Aiken	Richard Melvin Owen	Florence
Robert Barry Green	Waynesboro, Pa.	Monique Sullivan Williams	Charleston

**Computer Engineering**

Donald Edward Barker	Greenville	Joerg Schoenfuss	Rock Hill
Arthur Bartley Brock	Moncks Corner	Charles Edward Sult	Hayesville, N. C.
Paul Matthew Farkas	Aurora, Ohio	Robert Martin Wolfe	North Myrtle Beach
Karen Michaela Johnson	Greenville		

**Electrical Engineering**

Jack Freeman Anderson, Jr.	Travelers Rest	Deborah Lynn King	Walhalla
**Edward Clayton Boggess, Jr.	Belton	Alan Neil Lollis	Greenville
Kirk Michael Brown	Aiken	Nilesh Vasant Merchant	Spartanburg
Roger James Clarke	Pickens	John Bradley Nix	Anderson
James Kenneth Gantt II	Boiling Springs, N. C.	†**Michael Eugene Tubbs	Fulton, Md.
Abraham Alden Gold	Columbia	Glenn Regan Varenhorst	Clemson
Lori Yvonne Hemphill	Gaffney	Jeffrey Allen West	Rockville, Md.
Larry Allen Hillman, Jr.	Williston	Jeffrey Martin Whitlow	Elberton, Ga.
Robert Jefferson Johnson	Summerville		

**Engineering Technology**

Douglas Owen Meacham	Columbus, Ohio	Christopher Herman Strange	Greer
Thomas Taylor Patton	Mexico City, Mexico	Randall Elliott Wooten	Greer
Leslie Neil Sparks	Statesboro, Ga.		

**Industrial Engineering**

*Mauricio Rafael Celin	Barranquilla, Colombia	Joseph Rodgers Maxberry III	Columbia
Edward Burns Daughtry	Hartwell, Ga.	Boots Robin Moody	Marietta
Scott Thomas Henderson	Cincinnati, Ohio		

**Mechanical Engineering**

Todd Matthew Adams	Airville, Pa.	Robert Wayne Hickman	Myrtle Beach
Nathan Boyles	Central	Daniel Bray Holcombe	Columbia
David Keith Brandes	Hopkins	William Smyly Kinard, Jr.	Florence
Scott Evan Crandall	Greenville	Joe Pring LeNoir, Jr.	Summerville
Christopher Morgan Crawford	Lavonia, Ga.	Donald William Luther	Severna Park, Md.
William Kenneth Crocker, Jr.	Orangeburg	Billy John Michales, Jr.	Asheville, N. C.
Thomas Abney Dance, Jr.	Aiken	John Merrill Millard, Jr.	High Point, N. C.
Thomas James Esper	Central	Jeffrey Alan Nelson	Lugoff
David Brian Everett	Spartanburg	Christopher John Pearce	Trumbull, Ct.
John Peter Faraci	Aiken	Jeffrey Bryan Ramsey	Blacksburg
Dawn Friend Goodwin	Freehold, N. J.	Timothy Richard Rock	Mt. Laurel, N. J.
Norman Douglas Hall	Charleston	Timothy Matthew Smith	Williston
Michael Allen Hawkins	Liberty	Timothy Leon Welting	Louisville, Ky.

**COLLEGE OF FOREST AND RECREATION RESOURCES**

BENTON HOLCOMB BOX, Dean

**BACHELOR OF SCIENCE****Forest Products**

Michael Thomas Washburn Pittsburg, N. H.

**Parks, Recreation, and Tourism Management**

Joel Thomas Bullard	Lyman	Ann Lawrence Prehoda	Hartsville
Sandra Lynn Carrico	Richburg	*Pamela Anne Price	Greenville
Dana Swinford Craft	Anderson	Janice Johnson Sargent	Piedmont
Jeffrey John deAlmeida	Ashland, Mass.	Victor Leon Smalls	Charleston
Kathi E. Hilgert	Lima, Ohio	†††Cheryl Everett Smith	Greer
Julie Marie Hudspeth	Anderson	Dana Francis Smith	Lincolnton, Ga.
Dorian Elizabeth Kierce	Anderson	Richard Jude Stachelek	Columbia
Shirley Renee Lark	Inman	Deborah Lynne Stiles	Springfield, Va.
Jayne Frances Latimer	Brentwood, Tenn.	Diane Ward	Germantown, Tenn.
Ramona Christine Lee	Summerville	Anthony Kyle Weekley	Columbia
Ruth Ann Norman	Salisbury, N. C.	Tamara Burgess Whitton	Columbia
Mark Sherod Owens	Anderson		

**COLLEGE OF LIBERAL ARTS**

ROBERT ALFRED WALLER, Dean

**BACHELOR OF ARTS****English**

Barbara Ann Congdon	Jacksonville, Fla.	Deneen M. Stirewalt	Clemson
*Cheryl Bristow Fraley	Clemson	Susan Elizabeth Toms	Spartanburg
**Laura Shevaun Green	Anderson	Clair Manning Turner	Charleston
Amelia Clara Ryan	Columbia		

**History**

Ronald Gene Barnett	Clemson	Charlotte Penelope Davis	Clemson
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**Modern Languages**

Karen Adele Hilgemeier	Carmel, Ind.
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**Political Science**

Virginia Annette Auer	Pendleton	*Gregory Dean Ruehle	Elyria, Ohio
Brian William Badger	Charleston	Lynn Scarborough	North
Bryan Virgil Gamble	Manning	Keith Donaldson Snell, Jr.	Brooksville, Fla.

**Pre-Professional Studies**

***Peter John Carek	Charleston
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**Psychology**

Angela Marie Farmer	Richmond, Va.	**Lucinda Sorciere Shealy	Clemson
Dee Gieger-Brown	Shreveport, La.	Mickey Lynn Stein	Florence
Wendy Lynn Griffin	Townville	Robert Glenn Wotring	Toledo, Ohio

**Sociology**

Bridget Mary Anderson	Greer
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**Double Major****Economics and Spanish**

**Stefanie Ann Weber	Miami, Fla.
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## **COLLEGE OF NURSING**

**OPAL SHEPARD HIPPS, Dean**

### **BACHELOR OF SCIENCE Nursing**

Stacy Allyson Massey ----- Mauldin

## **COLLEGE OF SCIENCES**

**HENRY ELLIOTT VOGEL, Dean**

### **BACHELOR OF ARTS Chemistry**

James Wesley Dickson ----- Black Earth, Wis.

### **Mathematical Sciences**

†\*\*Laura Shevaun Green ----- Anderson

### **BACHELOR OF SCIENCE Biochemistry**

\*\*\*Mark Edward Carver ----- Kingsport, Tenn. Amy Rene Wethington ----- Pauline

### **Chemistry**

Mary Lee Denne ----- Summerton

### **Computer Information Systems**

Israel Bocanegra, Jr.	Greenville	Sandra Leigh Geddings	Mt. Pleasant
Michael Wilhoit Brice	Roanoke, Va.	Bradley Kent McCoy	Harrisonburg, Va.
*Carol Ann Copenhagen	Greenville	Alexis Ivy Reid	Charleston

### **Computer Science**

Vanessa Lucinda Dixon	Bethune	David Lawrence Ramger	Maryville, Tenn.
Michael Sidney Marshall	Greenville	Reesa Louise Shearer	Taylors
Richard Eugene Mullinax	Clemson	Jeffrey Floyd Snow	Greer

### **Geology**

†\*Ronald Lamar Knight ----- Charleston Heights

### **Mathematical Sciences**

Albert LeRoy Brown	Mountain Rest	Wendell Padraic Johnson	North Augusta
Joseph Everett Carter III	Louisa, Ky.	Patricia Lyn McCarthy	Mountainside, N. J.
Nancy Lenore Chipps	Anderson	Melanie Renee Meghdadi	Longwood, Fla.
†*Ernest Alexander Cline	Batesburg	William Jule Rodatz	Clemson
Lynda Valerie Hagen	Abbeville		

### **Medical Technology**

Nancy Susan Holden	Inman	**Linda Sue Thomas	Centerville, Ohio
Angela Dianne Hughes	Six Mile		

### **Microbiology**

Dawn Allyne Knecht	Greenville	William Christopher Rock	Naples, N. Y.
David Scott McCann	Anderson		

### **Pre-Professional Studies**

Catharina Carolyn Aurich	Clemson	William John Ricken	Clemson
Claude William Caraway, Jr.	Charleston		

### **Zoology**

***Janet Carol Bottomley	Hockessin, Del.	**Linda Anne Novak	Greenville
***Nancy Jane Cottingham	Charleston		

\*Cum laude: A grade point ratio of 3.40 to 3.69

\*\*Magna cum laude: A grade point ratio of 3.70 to 3.89

\*\*\*Summa cum laude: A grade point ratio of 3.90 to 4.00

†Senior Departmental Honors: The students so designated have earned a B or better in the six to twelve credits of honors work at the upper division level in a program designed by their department. They have maintained a minimum GPR overall of 3.40. They appear in the line of march with an honors medallion on an orange and purple ribbon.

## CANDIDATES FOR EDUCATION SPECIALIST AND MASTERS' DEGREES

ARNOLD EDWARD SCHWARTZ, Dean, Graduate School

### COLLEGE OF AGRICULTURAL SCIENCES

#### MASTER OF AGRICULTURAL EDUCATION

Stanley Jay Gibson	Pendleton	Robert Emmet Spalding, Jr.	Easley
Barry Eugene Hawkins	Calhoun Falls		

#### MASTER OF AGRICULTURE

James Michael Griggs	Ruby
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#### MASTER OF SCIENCE

##### Animal and Food Industries

Terry Vaughn Eades	Inman	Jackie Ann Souther	Hamptonville, N. C.
Nestor Isnardo Plata	Bucaramanga, Colombia		

##### Entomology

Jena Ann Johnson	New Orleans, La.
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##### Horticulture

John Preston Lewis	McCormick
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##### Nutrition

Juliette Lane Monroe	Roebuck	Catherine Joan Walsh	Midland, Mich.
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##### Plant Pathology

Daryl Parker Whittington	Millers Creek, N. C.
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##### Wildlife Biology

Edward Wingfield Frierson	Columbia
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### COLLEGE OF ARCHITECTURE

#### MASTER OF ARCHITECTURE

Brenda Kay Barnes	Middletown, N. J.
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#### MASTER OF CITY AND REGIONAL PLANNING

Benjamin Jerry Washington, Jr.	Greenville
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#### MASTER OF FINE ARTS

Donald Roy Ledbetter	Evansville, Ind.	Deborah Deane Wourms	Clemson
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### COLLEGE OF COMMERCE AND INDUSTRY

#### MASTER OF BUSINESS ADMINISTRATION

Albert Daniel Chamblee	Anderson	Charles Eddie Nations	Anderson
Kenneth Scott Christiansen	Greenville	Henry Henon Perkins III	Clemson
Swati Vijay Daji	Bombay, India	Edward Terrence Poplava	Greenville
John Alan Dean	Taylors	Sheila Joan Poteat	Greer
Richard Carl Detjen	Cincinnati, Ohio	Clyde Andrew Selleck III	Greer
Barton DeJager Heres	Raleigh, N. C.	Frederick Douglas Wilson	Simpsonville
Thomas Owens Loehr	Greenville		

#### MASTER OF PROFESSIONAL ACCOUNTANCY

John Avery Elliott	Spartanburg	William Jeffrey Laffidy	Hartsville
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#### MASTER OF ARTS

##### Economics

Gordon Owens Shuford	Hanahan
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**MASTER OF SCIENCE  
Industrial Management**

Carole Beaulieu	Marmande, France	Jean Louet	Barbazan-Debat, France
Patrice Jacky Blot	Pau, France	Judith Lucas-Drews	Clemson
Robert Alan Bullock	Hockessin, Del.	Jean-Luc Mauboules	Pau, France
Thomas John Den Boer	Sheboygan, Wis.	Veronique Marie-Claire Soret	Tours, France
Beverley Patricia Dinham-Smith	Kingston, Jamaica	Huey-Chyn Josephine Yuan	
Wendell Elmore Jones, Jr.	Taylors		Hsin-Chu City, Taiwan

**Textile Science**

Sheridan Ann Lloyd \_\_\_\_\_ Rumson, N. J.

**COLLEGE OF EDUCATION**

**EDUCATION SPECIALIST**

**Administration and Supervision**

Lewis Earl Gilstrap, Jr. \_\_\_\_\_ Easley

**MASTER OF EDUCATION**

**Administration and Supervision**

Thomas Robert Borrelli	Goose Creek	Elizabeth Jean Freeman Miller	Greenville
Debra Phillips Cox	Seneca	Lewis Maxwell Monroe	Pickens
Cathryn Anderson Davis	Greenwood	Dexter Lee Wansley	Anderson
Talmadge Matthew Gray	Mauldin	Randy Keith Weber	Churchville, Md.

**Counseling and Guidance Services**

Michael Alan Arnold	Greenville, N. C.	Joy Fowler LaForge	Anderson
David Mayfield Bennett	Cheraw	Katherine Hawk Long	Six Mile
Virginia Steiner Cadaret	Clemson	Jami Lynne McNeely	Greenville
Evelyn Fant Cauley	Greenwood	Amy Partin Moore	Easley
Sharon Lee Proctor Crout	Williamston	Patti Doris Nelson	Greenville
Jeffery Lance Cruce	Lake City, Fla.	Robert William Oppermann	Anderson
Deborah Worley Davis	Greenville	Venita Kaye Ouzts	Greenwood
Nancy Goldsmith Dendy	Seneca	Argy Pantazis	Inman
Debra Joe Driggers-Franks	Greenwood	Donald Keith Reeves	Liberty
Helen Elizabeth Eddy	Columbia	Larry McKinley Rowland, Jr.	Anderson
Glenda Camak Galphin	Ninety Six	Laura Helton Snead	Hodges
Mary Bolton Gredlein	Greenwood	Lori Ann Wilkerson	Whitmire
Cynthia Jane Hamby	Seneca	Deborah Scott Willingham	Greenwood
Michael Lee Jenkins	Norris		

**Elementary Education**

Angela Shealy Bedenbaugh	Pomaria	Lisa Kathleen Nichols	Greenville
Vickie Robinson Boyter	Ware Shoals	Denise Duncan Pearson	Mountain Rest
Jacquelyn Louise Coley	Anderson	Teresa Diane Pearson	Walhalla
Charlsie Counts Doolittle	Pomaria	Cynthia Cadwell Sanders	Toccoa, Ga.
Angela Gail Cox Hurlburt	Westminster	Carole Diane Shurtz	Coral Springs, Fla.
Elizabeth Lester Kiker	Newberry	Sandra Gardner Smith	Six Mile
Susan Ruth Lawson	Whitmire	Deborah Welcher Williams	Toccoa, Ga.
Mary Louise Layton	Anderson	Nancy Lubitz Witcher	Anderson
Frances Summey Neal	Seneca		

**Reading**

Carolyn Lee Amond	Greenville	Gervais Jennings Emanuel	Clemson
Maria Gay Cox	Easley	Karen Atkins Fitts	Greenville
Carolyn Higginbotham Cromer	Anderson	Janet Elizabeth McClure	Anderson
Althea Elisabeth Davis	Siloam Springs, Ark.	Sarah Gillespie Richardson	Clemson

**Secondary Education**

Stuart Shawn Adamson	Glencoe, Ill.	Jamie DeAnne Gregory	Rock Hill
Catherine Oakes Arnold	New London, N. C.	Amanda Woodall Tinklepaugh	Tucker, Ga.
Susan Caroline Dover	Liberty		

**Special Education**

Pamela Jeanne Daugherty	Greenville	Traci Baker Sorgenfrei	Easley
Patricia Malissa Edwards	Belton	Susan Ruth Vickery	Seneca
Kathleen Elizabeth Gambrell	Walhalla	Meri Margaret Waite	Racine, Wis.
Ann Page Gibson	Orangeburg	Jeffrey Reid Wilson	Anderson
Patrick Calvin Pritchard	Fair Play	Judith Ann Woodard	Central
Linda Jean Robinson	Anderson		

**MASTER OF INDUSTRIAL EDUCATION**

Terri Lynn Center	Greenville	Michael McCoy Reaves	Hartsville
Ernest James Lamb	Matthews	Linda Johnson Shirley	Anderson
Michael Renard Lucas	Florence		

**COLLEGE OF ENGINEERING****MASTER OF ENGINEERING  
Electrical Engineering**

William Henry Bollman	Bethesda, Md.	Ming-Ju Tsay	Bridgewater, N. J.
Frederick Elliott Melen	Londonderry, N. H.		

**Environmental Systems Engineering  
Angela Elaine Summers Shedd** Brandon, Miss.**MASTER OF SCIENCE  
Bioengineering**

Jennifer Marie Hizer	St. Louis, Mo.	Arun Sudhakar Shanbhag	Bombay, India
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**Ceramic Engineering**

In-Tae Kim	Pusan, Korea	Kyei-Sing Kwong	Taipei, Taiwan
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**Chemical Engineering**

Gregory Allen Chapman	Marion, Ind.	Karin Michele Lutsky	Clayton, Mo.
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**Civil Engineering**

Wei-Jen Lee	Taipei, Taiwan	Jea-Liang Wey	Kaohsiung, Taiwan
Harish Chellaram Mirchandani	Bombay, India		

**Computer Engineering**

Samir Gurunath Kelekar	Margao-Goa, India	M. N. Muralidhar Rao	Bangalore, India
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**Electrical Engineering**

Edwin Gonzalo Duran	Quillacollo, Bolivia	Michael James Satterfield	Dahlonega, Ga.
Melisa Bagley Johns	Columbia	Ho-Chen Charles Shie	Taipei, Taiwan
Prashant Kamalakant Khambekar	Bombay, India	Kalpathi Subramanian Suresh	Madras, India
Suresh C. H. Kumar	Bangalore, India	Jianming Tao	Clemson
Ling Pan	Nanchang, China	Edward Henry Vickers	Fair Play
		Chia-Chi Wang	Kaohsiung, Taiwan

**Engineering Mechanics**

Stephanie Cordell Menon	Gaffney
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**Environmental Systems Engineering**

Scott Hoffman Reboul	New Hope, Pa.	Eric James Wahlberg	Wilbraham, Mass.
Steven Eugene Scarlett	Greenville		

**Industrial Engineering**

Lawrence Jay Caldwell	Medford, N. J.
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**Mechanical Engineering**

Ujjwal Chakraborty	Calcutta, India	Manoj Nigam	Indore, India
Monimoy Chakravorty	Calcutta, India	Pramod Madhukar Pawar	Walhe, India
Kirsten Katherine Gow	Harrisburg, N. C.	Frank Mark Pitman	Duncan
John Thomas Holland	Greenville	Mark Lewis Sweatman	Orangeburg
M. A. Kalam	Hyderabad, India		

## COLLEGE OF FOREST AND RECREATION RESOURCES

### MASTER OF PARKS, RECREATION, AND TOURISM MANAGEMENT

Weber Kirby Player \_\_\_\_\_ Bishopville Sharon Lynne Yoder \_\_\_\_\_ State College, Pa.

### MASTER OF SCIENCE

#### Forestry

Robert T. Deen \_\_\_\_\_ Meridian, Miss. Bradford Mason Sanders \_\_\_\_\_ Coral Springs, Fla.

### Parks, Recreation, and Tourism Management

Rebecca Faith Kosanke \_\_\_\_\_ Bozeman, Mont.

## COLLEGE OF LIBERAL ARTS

### MASTER OF ARTS

#### English

Charlotte Lane Holt \_\_\_\_\_ Clemson Robert Arthur Vaughan, Jr. \_\_\_\_\_ Florence  
Aubrey Leavell Padgett, Jr. \_\_\_\_\_ Saluda Matthew Henry Wilson \_\_\_\_\_ Anderson  
Marcia Kay Posey \_\_\_\_\_ Easley

#### History

Fara Yvette Driver \_\_\_\_\_ Richland Phillip Harold Garland \_\_\_\_\_ Greenville

## COLLEGE OF NURSING

### MASTER OF SCIENCE

#### Family Health Nursing

Susan Allene Ables \_\_\_\_\_ Gainesville, Ga. Shirley Ann Hyland \_\_\_\_\_ Akron, Ohio  
Pamela Ann Atkinson \_\_\_\_\_ Toccoa, Ga. Joyce Higdon Littlefield \_\_\_\_\_ Pauline  
Melanie Gayle Bunn \_\_\_\_\_ Raleigh, N. C.

## COLLEGE OF SCIENCES

### MASTER OF SCIENCE

#### Botany

Sally Trigg Brock \_\_\_\_\_ Seneca

#### Chemistry

Gautam Shrikrishna Haldankar \_\_\_\_\_ Bombay, India Yuh Sun \_\_\_\_\_ Taipei, Taiwan  
Sungho Hu \_\_\_\_\_ Seoul, Korea

#### Computer Science

Jih-Cherng Chern \_\_\_\_\_ Taichung, Taiwan Charles David Page, Jr. \_\_\_\_\_ Seneca  
John Smith Graham, Jr. \_\_\_\_\_ Clemson Harminder Gambhir Singh \_\_\_\_\_ New Delhi, India  
John Roger King \_\_\_\_\_ Oregonia, Ohio Wayne Alan Smith \_\_\_\_\_ Aiken  
Robena Elaine Medbery \_\_\_\_\_ Charleston

#### Mathematical Sciences

Walter Gilbert Bullard, Jr. \_\_\_\_\_ Mobile, Ala. Hwa-Chung Shieue \_\_\_\_\_ Clemson  
Pierre Marie Genevier \_\_\_\_\_ Poitiers, France Tracy Ann Summers \_\_\_\_\_ Ogema, Wis.  
Richard Allen Hinrichsen \_\_\_\_\_ Longview, Wash. Kellie Elaine Tedder \_\_\_\_\_ Smyrna, Ga.  
Jeffery Mark Owens \_\_\_\_\_ Bladenboro Kathy Ann Vandiver \_\_\_\_\_ Washington, Ga.  
Lee Raymond Rowley, Jr. \_\_\_\_\_ Easley Richard Kyle Wofford \_\_\_\_\_ Alma, Ark.

#### Microbiology

George Joseph Fennington, Jr. \_\_\_\_\_ Liberty Janice Ann Jones \_\_\_\_\_ Honea Path  
Lisa Delene Johnson \_\_\_\_\_ Mt. Pleasant David Latorra \_\_\_\_\_ Bridgewater, N. J.

#### Physics

Norma Azucena Elias \_\_\_\_\_ Clemson James Phillip Gundlach \_\_\_\_\_ Flint, Mich.

#### Zoology

Steven Lane Ashby \_\_\_\_\_ Gulfport, Miss. Thomas Lyle Morton \_\_\_\_\_ Lexington, Ky.  
John Richards Hay III \_\_\_\_\_ Kingsport, Tenn.

## CANDIDATES FOR DOCTORS' DEGREES

ARNOLD EDWARD SCHWARTZ, Dean, Graduate School

### COLLEGE OF AGRICULTURAL SCIENCES

#### DOCTOR OF PHILOSOPHY Applied Economics

Nathan West Childs \_\_\_\_\_ Anderson  
B.S., Clemson University; M.B.A., University of Georgia  
Dissertation: The Impact of Monetary Policy on Selected Agricultural Commodity Exports

#### Entomology

Gregory Terrell Payne \_\_\_\_\_ Bowman, Ga.  
B.S., Georgia College; M.S., Clemson University  
Dissertation: Inheritance and Mechanisms of Permethrin Resistance in the Tobacco Budworm, *Heliothis virescens* (Lepidoptera: Noctuidae)

#### Nutrition

James Eric Whisenhunt III \_\_\_\_\_ Anderson  
B.S., M.S., Clemson University  
Dissertation: Response of Plasma Calcium to Oral Dosing with Cholecalciferol in Rachitic Chicks and Poulets Treated with Aflatoxin B<sub>1</sub>

#### Plant Physiology

Jeffrey Grover Williamson \_\_\_\_\_ Huntsville, Ala.  
B.S., M.S., Auburn University  
Dissertation: The Effects of Root Growth and Distribution, and Plant Water Status on Growth and Productivity of Peach, *Prunus persica* (L.)

### COLLEGE OF COMMERCE AND INDUSTRY

#### DOCTOR OF PHILOSOPHY Industrial Management

Samir Barman \_\_\_\_\_ Calcutta, India  
B.M.E., Jadavpur University; M.S., M.S., Clemson University  
Dissertation: A Comparison of the Relative Performance of the Relative Performances of Several Aggregate Scheduling Models

Orinda Byrd Christoph \_\_\_\_\_ Society Hill  
B.S., M.S., Clemson University  
Dissertation: MRP Lot Sizing Under Conditions of Uncertainty and Multiple Purchase Discounts

Cheryl Cook Patterson \_\_\_\_\_ Clemson  
B.A., University of Alabama; M.S., Clemson University  
Dissertation: The Development of a Simulation Model of the Quality Control System for a Manufacturing Process

### COLLEGE OF EDUCATION

#### DOCTOR OF EDUCATION Vocational and Technical Education

Priscilla Mackenzie Kline \_\_\_\_\_ Pendleton  
B.S.N., M.S.N., University of Illinois  
Dissertation: Effects of Informational Support and Emotional Support on Morale of Nursing Home Staff Providing Care to Alzheimer's Disease Patients

### COLLEGE OF ENGINEERING

#### DOCTOR OF PHILOSOPHY Engineering

Kent Davis \_\_\_\_\_ Siloam Springs, Ark.  
B.S., John Brown University; M.S., University of Maine  
Dissertation: The Development of a Quality Performance Tracking System for Design and Construction (Field of Specialization: Civil Engineering)

Autar Krishen Kaw	Srinagar, India
B.E., Birla Institute of Technology and Science; M.S., Clemson University Dissertation: Damage Growth in Composite Laminates with Interleaves (Field of Specialization: Engineering Mechanics)	
Napoleon Hugo Ortiz	Barcelona, Venezuela
M.E., Universidad de Oriente; M.S., University of Michigan Dissertation: Robust Manipulator Control Using Arm-Wrist Partitioning (Field of Specialization: Mechanical Engineering)	
Paul Frederick Petersen	Clemson
B.B.A., Southern Methodist University; M.B.A., Clemson University Dissertation: Modeling Control System Selection and Evaluation (Field of Specialization: Industrial Engineering)	
Perry Joe Robertson	Greensboro, N. C.
B.S., North Carolina State University; M.S., Clemson University Dissertation: Characteristics of Heteroepitaxial Si-BP Structures Grown at a Single Growth Temperature (Field of Specialization: Electrical Engineering)	

## COLLEGE OF FOREST AND RECREATION RESOURCES

### DOCTOR OF PHILOSOPHY Forestry

Stephen William Fraedrich	Oceanside, N. Y.
B.S., Old Dominion University; M.S., Clemson University	
Dissertation: The Influence of Rhizosphere Oxygen Concentration and Host Nutrition on the Susceptibility of Shortleaf and Loblolly Pine Roots to Infection by <i>Phytophthora cinnamomi</i>	

## COLLEGE OF SCIENCES

### DOCTOR OF PHILOSOPHY Chemistry

Charles William Bauknight, Jr.	Anderson
B.A., Duke University	
Dissertation: The Chemistry of Cyanogen Fluoride and the N-Halodifluoromethanimines	
Karen Sonja Jenks Brewer	Lancaster
B.S., Wofford College	
Dissertation: The Development of Novel Fe, Co, Ir, and Ru Complexes for the Capture and Utilization of Solar Energy	
Joseph George Young	Asheville, N. C.
B.S., University of North Carolina at Asheville	
Dissertation: Synthesis of Di-disubstituted Phthalocyanines	

### Computer Science

Thomas Victor Wimer	Clarion, Pa.
B.S., M.S., University of Pittsburgh	
Dissertation: Linear Algorithms on k-Terminal Graphs	

### Mathematical Sciences

Wendell Davis Jones	Edgefield
B.S., Furman University; M.S., Clemson University	
Dissertation: Detecting and Understanding Joint Influence in Regression Diagnostics	

Therese Sullivan Shelton	Houston, Texas
B.S., Texas A&M University; M.S., Clemson University	
Dissertation: A Product Integral Solution of the Volterra-Stieltjes Equation with Unbounded Kernel	

### Physics

Mark David Kluge	Baltimore, Md.
B.S., Loyola College	
Dissertation: Molecular Dynamics Studies of Silicon	

## CLEMSON ALMA MATER

A. C. Corcoran, '19

Where the Blue Ridge yawns its greatness,  
Where the Tigers play;  
Here the sons of dear old Clemson  
Reign supreme alway.

### Chorus

Dear old Clemson, we will triumph  
And with all our might,  
That the Tiger's roar may echo  
O'er the mountain height.

We will dream of great conquests,  
For our past is grand,  
And her sons have fought and conquered  
Every foreign land.

Where the mountains smile in grandeur  
O'er the hill and dale.

Here the Tiger lair is nestling  
Swept by storm and gale.

We are brothers strong in manhood,  
For we work and strive;  
And our alma mater reigneth  
Ever in our lives.