

12-21-1989

# Clemson Commencement Program, December 1989

Clemson University

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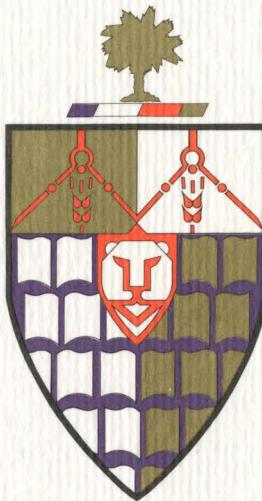
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# CLEMSON UNIVERSITY

Graduation Exercises

December 21, 1989

Clemson, South Carolina

CENTENNIAL  
1889-1989

# Graduation

Thursday, December 21, 1989

11:00 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 Steven L. Price  
Presbyterian Student Association

### Conferring of Honorary Degrees

President Max Lennon

### Recognition of President's Award Recipients

### Address to Graduating Class

John A. Rollwagen  
Chairman and Chief Executive Officer, Cray Research

### Conferring of Degrees and Delivery of Diplomas

President Max Lennon

### Welcome to New Alumni

J. Ryan White  
President, Alumni Association

### Benediction

Frank W. Breazeale, Organist

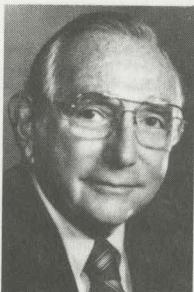
Kevin Davidson, Soloist

Dr. John Jefferson Porter, University Marshal

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 doctoral candidates. Please return to your seat promptly after making photographs in order to keep distraction on the floor at a minimum.

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**  
**GEORGE C. CHAPLIN**  
**DOCTOR OF HUMANITIES**

Clemson alumnus and South Carolinian George Chaplin, editor-at-large of **The Honolulu Advertiser** is one of the most highly respected journalists to come out of the institution. He enjoys both a national and international reputation in his field.

As a young cadet in the early 1930s, Mr. Chaplin was majoring in chemistry and reporting for **The Tiger**. He was encouraged to put away his test tubes and pursue a career in the written word because his special flair for writing had not gone unnoticed by John D. Lane, who was faculty adviser to the student newspaper. Professor Lane taught English and was beloved by countless students. Mr. Chaplin remembers Professor Lane telling him one day that "he probably had set chemistry back a couple of centuries." But Chaplin also credits Professor Lane as "the person more than anyone else who set me in the direction my life has taken."

Born in Columbia, Mr. Chaplin moved to Greenville with his family when he was about 14 years old. He earned his undergraduate degree at Clemson, where he was editor of **The Tiger** and was a cadet lieutenant colonel of the cadet corps. He graduated in 1935.

Mr. Chaplin's full-time career as a journalist began in nearby Greenville with the **Piedmont**. At age 26, when he was a city editor of the **Piedmont**, he was recipient of a Nieman Fellowship at Harvard University in 1940-41. He first went to Hawaii in the Army in World War II as the founding editor and officer-in-charge of the Pacific edition of **The Stars and Stripes**, the armed forces newspaper.

He later worked on newspapers in Camden, New Jersey, San Diego and New Orleans (where he was editor of the **Daily Item** from 1949 to 1958) before moving to Hawaii to begin his long association with **The Honolulu Advertiser**, Hawaii's prize-winning newspaper. When he was elected president of the American Society of Newspaper Editors thirteen years ago, he was the first editor outside the continental United States to be so honored.

After a distinguished career which spanned 52 years, 28 of them with **The Advertiser**, he retired as editor-in-chief on December 1, 1986 and remains as editor-at-large. During his tenure at the editorial helm, **The Advertiser** won more than 60 national awards. Mr. Chaplin himself also has received many writing awards. Among his current writing projects is a biography of the 133-year-old newspaper where he spent much of his career.

Two years ago Mr. Chaplin founded and raised \$200,000 for the Coalition for a Drug-Free Hawaii, a respected non-profit, private-sector program aimed at the young, their parents, and people in the workplace. He also has worked for many years to improve relations between the United States and Japan. In recognition of this, the government of Japan conferred upon him the Order of the Rising Sun. His biographical sketch has for years been included in "Who's Who in America" and "Who's Who in the World."

Clemson University holds him and his lifetime achievements in the highest regard. It is a privilege for all of us to honor an individual who has contributed so much to the cause of a free press and to the building of stronger relationships among nations through his humanitarian initiatives.



## HONORARY DEGREE

JOHN C. MAROUS

DOCTOR OF LETTERS

John C. Marous, one of the most often quoted spokesmen for corporate America on the concept of total quality and excellence, is chairman and chief executive officer of Westinghouse Electric Corporation in Pittsburgh, Pennsylvania.

Prior to becoming chairman on January 1, 1988, Mr. Marous served as president of the Corporation's Industries and International Group. The group included businesses involved globally in the development, manufacture and marketing of a wide variety of electrical and electronic products for industrial, construction and utility markets.

Following service in the Army, Mr. Marous earned bachelor and master of science degrees in electrical engineering from the University of Pittsburgh.

A Pittsburgh native, Mr. Marous joined Westinghouse on the graduate student training program in 1949. He held a series of key sales and marketing positions in electronic and construction products divisions and was named executive vice president of the Construction Group in 1973. He was named president-international in 1979, and in 1983 was appointed president of the Industries and International Group.

He is a member of the President's Advisory Council at Clemson, the board of directors of Bell Atlantic, Connecticut Mutual Life Insurance Company and Mellon Bank. He also is chairman of the Board of Trustees of the University of Pittsburgh and chairman of the board of River City Brass Band.

South Carolina is among the top three states in terms of Westinghouse employment, and Clemson has enjoyed an excellent working relationship with the corporation through the years. Sixty Clemson alumni are employed by Westinghouse in its various locations, and the University is among a select group of schools nationwide which are targeted for recruiting activity by Westinghouse.

Mr. Marous also serves on the boards of the Pittsburgh Opera, the American Waterways Wind Orchestra and the Allegheny Trails Council of the Boy Scouts of America. He is an international councilor of the Center for Strategic and International Studies and a member of the Japan-U.S. Business Council. He is a lifetime member of the Council on Foreign Relations and an Overseer of the Executive Council on Foreign Diplomats.

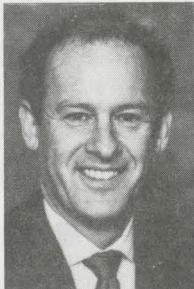
He also is a member of The Business Roundtable and a trustee of the U.S. Council of the International Chamber of Commerce; an elected member of the Conference Board, Inc.; a member of the American Society of Corporate Executives, the Business-Higher Education Forum and the National Foreign Trade Council; a board member and former chairman of the World Affairs Council of Pittsburgh; and a director of the Foundation for the Malcolm Baldrige National Quality Award.

Clemson University holds John Marous and his achievements in the highest regard, and it is a distinct pleasure to present to him the honorary degree, Doctor of Letters.

# The President's Award



LAWRENCE M. GRESSETTE, JR.



JOHN A. ROLLWAGEN

## LAWRENCE M. GRESSETTE, JR.

Clemson alumnus and newly elected life trustee Lawrence Gressette, Jr. of Columbia is president of SCANA Corp. and vice chairman of South Carolina Electric & Gas Co., its principal subsidiary.

The Wall Street Journal announced his October 25 election to the additional posts of chairman of the board and chief executive officer of SCANA Corp. to become effective on February 1. Mr. Gressette also was elected chairman and chief executive officer of all SCANA subsidiaries.

Mr. Gressette is committed to a key role in volunteer service to Clemson as chairman of the National Corporations Committee of The Campaign for Clemson: A Partnership for Academic Excellence.

He is working with a group of corporate executives from across the nation on behalf of the University's major corporate fund-raising initiatives for academic programs. He was instrumental in SCANA's decision to make commitments, through S. C. Electric and Gas Co., totaling \$1.15 million to Clemson University within The Campaign for Clemson. Mr. Gressette was recognized last month by the Clemson University Foundation as its 1989 Volunteer of the Year for his outstanding efforts in fund-raising.

He also serves on the Clemson University Research Foundation Board of Directors. Mr. Gressette was elected a life trustee on November 21.

A St. Matthews native, he earned a B.S. degree with honors from Clemson in 1954 and his LL.B. degree with honors from the University of South Carolina School of Law.

## JOHN A. ROLLWAGEN

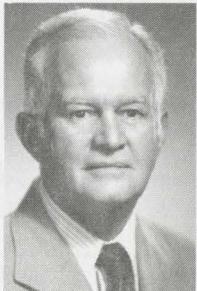
John A. Rollwagen is chairman and chief executive officer of Cray Research, Inc. of Minneapolis, Minnesota, Mr. Rollwagen is responsible for the corporation's ongoing development as the leading supplier of supercomputers.

He oversees the formulation and achievement of long-term objectives for the company and helps provide an environment for technical people to explore new ideas in system development.

Mr. Rollwagen has been an integral part of Cray Research since 1975, when he joined the company as vice president of finance. In 1976 he became vice president of marketing, and in 1977 was named president of the company and a member of the board of directors. Mr. Rollwagen became chief executive officer in 1980 and assumed the responsibilities of board chairman in 1981 when Seymour Cray stepped down from that position.

A Minneapolis native, Mr. Rollwagen is committed to Mr. Cray's approach to development and creativity. He is largely responsible for ensuring a fluid corporate environment that fosters individual creativity, thus enabling people in all areas of the company to exercise their potential in the development of innovative ideas and products.

Mr. Rollwagen earned a master's degree in business administration from the Harvard Business School in 1964 and a bachelor of science degree in electrical engineering from the Massachusetts Institute of Technology in 1962.



MURRAY M. STOKELY

MARSHALL E. WALKER, SR.

### MURRAY M. STOKELY

In 1936 the architectural and engineering firm, J. E. Sirrine Company, hired a 22-year-old electrical engineer fresh from Clemson College with Bachelor of Science degree in hand. The new employee was Murray Marvin Stokely, who would help build the company into a giant in its field and would be elevated to its highest position of leadership.

Mr. Stokely remained with J. E. Sirrine (now CRS Sirrine) throughout his professional career, becoming a partner in the firm in 1954 and an officer of the company in 1956. He retired as chairman of the board and chief executive officer in December 1979.

He exemplifies the Clemson alumnus who has a strong desire to return something to his alma mater for what it imparted to him as a student. Mr. Stokely has been generous to Clemson with time, talents, and financial support.

He served for many years on the Board of Directors of the Clemson University Foundation and is a former president of that organization. He has been a strong supporter of the Foundation's Pooled Income Fund, beginning with an initial gift in 1975 and subsequent gifts through the years.

Mr. Stokely is a member of the Founders major gift club, the Benefactors of 1889 and the Benjamin Ryan Tillman Society. Many honors have come to him in recognition of what he has meant to Clemson. In 1978 he was recipient of the highest honor given by the Clemson Alumni Association — the Distinguished Service Award.

### MARSHALL E. WALKER, SR.

Clemson alumnus Marshall Walker of Rock Hill retired as chairman and president of Catawba Wholesale Electric Supply Co. in December 1988.

Mr. Walker earned his B.S. degree in agronomy from Clemson in 1941 and entered military service in the European Theater in World War II. He served as a bomber pilot in the Army Air Corps, earning several awards for valor. He continued his military service with the National Guard until 1976 when he retired as a brigadier general.

Returning home from the war, he joined a small electric supply business as a partner, purchased the business soon afterwards and changed its name to Walker Electric Co., Inc. In 1948 he started Catawba Wholesale Electric Supply Co. which wholesales electrical supplies to contractors and businesses.

Mr. Walker also built the Walker Electric Co. into a highly successful electrical contracting operation which has handled numerous projects throughout the Carolinas.

Mr. Walker has been a loyal Clemson alumnus, serving his alma mater in a variety of capacities to promote excellence in all University programs. He served on the Alumni National Council and he is a recipient of the Distinguished Service Award (1973), the highest honor bestowed by the Clemson Alumni Association. He has a record of consecutive annual gifts to the Clemson Loyalty Fund since it was established in 1956. He is a member of the President's Club and the new John C. Calhoun Society.

Mr. Walker is lifetime director and former national president (1974) of IPTAY, continuing his support as a scholarship donor.

## BOARD OF TRUSTEES

Louis P. Batson, Jr., Chairman	Greenville
Billy L. Amick, Vice Chairman	Batesburg
J. J. Britton	Sumter
Fletcher C. Derrick, Jr.	Charleston
W. G. DesChamps, Jr.	Bishopville
Lawrence M. Gressette, Jr.	Columbia
Louis B. Lynn	Columbia
Thomas B. McTeer, Jr.	Columbia
Buck Mickel	Greenville
Philip H. Prince	Pawleys Island
B. Marion Smith	Columbia
Allen P. Wood	Florence

### Trustees Emeriti

William N. Geiger, Jr.	Columbia
Paul W. McAlister	Laurens
Paul Quattlebaum, Jr.	Charleston
James C. Self	Greenwood
D. Leslie Tindal	Pinewood
James M. Waddell, Jr.	Beaufort

## ADMINISTRATIVE OFFICERS

Max Lennon	President
W. David Maxwell	Provost and Vice President for Academic Affairs
Hugh J. Clausen	Vice President for Administration and Secretary of the Board of Trustees
Milton B. Wise	Vice President for Agriculture and Natural Resources
David R. Larson	Vice President for Business and Finance
Gary A. Ransdell	Vice President for Institutional Advancement
G. Jay Gogue	Vice President for Research
Manning N. Lomax	Vice President for Student Affairs

# The Academic Procession

The Academic procession is composed of the faculty, officers, Trustees, and honored guests of the University. Faculty enter by college and each college is preceded by its marshal, a senior faculty member, with the college baton, described under University Regalia.

Following the marshal is the college banner bearer. Each banner is a combination of colors that declare the disciplines taught in that college. These colors, which were established by the American Council on Education, are as follows:

College	Colors	Discipline
Agriculture	Maize	Agriculture
Architecture	Brown	Fine Arts
	Lilac	Architecture
Commerce & Industry	Copper Drab	Economics Business
Education	Light Blue	Education
Engineering	Orange	Engineering
Forest & Recreation Resources	Russet Sage Green	Forestry Recreation Education
Liberal Arts	Dark Blue White Cream	Philosophy Letters & Humanities Social Science
Library	Lemon	Library
Nursing	Apricot	Nursing
Sciences	Golden Yellow	Sciences
Staff	Purple & Orange	Academic Support

Collegiate faculty follow their banner in order of academic rank wearing academic costumes of medieval origin. Those who have received their degrees from institutions outside the United States wear costumes specified by the awarding institutions.

The academic costumes of faculty whose degrees are from United States' institutions are specified by a uniform code maintained by the American Council on Education. Caps are black and are usually mortar boards with tassels. Doctors of Philosophy wear gold tassels usually of metallic thread; other degrees wear black or discipline colors.

The bachelors' gown is simple and black with long, pointed sleeves. Masters' gowns, also black, are longer than bachelors. Older gowns have sleeves that terminate at the elbow while those since 1960 have sleeves extended to the wrist. Doctors' gowns are full, with bell-like sleeves. The front is marked by velvet panels and the sleeves are marked by three velvet bars. While most gowns are black with black velvet, one variation is to replace black velvet with velvet in the discipline color. A second variation is a colored gown usually of the university's colors.

All hoods specify the level of degree, the discipline studied and the awarding institution. First, degree level is signified by the size of the hood with bachelors' smallest, masters' larger, and doctors' quite large and of a different shape. Clemson does not award hoods to bachelors. The width of the velvet trim also conveys the degree. Secondly, the discipline is indicated by the color of the trim edging the hood to form the throat over the gown. Finally, the color of the hood's lining specifies the awarding institution. The colors are displayed in combinations that are drawn from heraldry. Notice that the Clemson University hood is lined with purple through which is an orange chevron (a "V"). Although many combinations are duplicated by dozens of institutions, Clemson is presently the only institution with that registered combination.

The officers, trustees, and honored guests wear academic, ecclesiastical, or military regalia as set forth by their professions. They are preceded by the University marshal. Clad in a gown of office in gold and purple, the marshal wears no hood and bears the University mace. At the ceremony's close, the faculty do not exit as a part of the recessional but are dismissed, along with students and guests, when the marshal leaves the coliseum.

## The University Regalia

The University mace is the symbolic representation of the whole of Clemson University and must be present at any convocation where the University, through its delegated members, is acting officially. At any official convocation such as commencement, the University Marshal, carrying the mace, precedes the President into the assembly. The mace rests before the President's chair or speaker's stand throughout the ceremony, and its removal from the assembly at the close of a convocation is symbolic of the official withdrawal of the University and, thus, the close of the proceedings.

The decorative design of Clemson's mace is derived from the ceremonial maces carried by heads of state and church in the Middle Ages. Its basic club-like shape, however, is much more ancient, probably going back to man's pre-history. It is made of walnut wood and silver, with the seal of the University in gold and the University colors represented by insets of cornelian (orange) and amethyst (purple). Amethyst is also the state stone of South Carolina.

The Presidential chain and seal is symbolic of the authority vested in the office of president by the governing body of the University. Only the University President may wear it, and while wearing it he speaks for the whole body of the institution. Clemson's chain and seal are made of silver and gold, and cornelian and amethyst.

The batons of the college marshals also descend from medieval "staffs of office" which were carried by the senior members of departments of state or church. They display the seal of the University and the symbolic color of the discipline to which the college belongs. Clemson's batons are made of walnut wood and silver with the various disciplines inset with enamel.

The University regalia were designed and executed by Mr. Robert Ebendorf. Mr. Ebendorf is twice winner of the Tiffany Award and one of the most acclaimed goldsmiths of our era. The enamel plaques for the batons were executed by the late Professor Marshall C. Bell, and the lapidary work was executed by the late Mr. C. C. Wilson of Clemson University.

## Coat of Arms

Designed by Clemson University graphic artist, Connie Floyd, the coat of arms represents the historic three-fold mission of this institution: teaching, research and service.

Pictured on the cover, the coat of arms is divided into three parts. The bottom contains a series of open books representing the concept of teaching as the basis of the land-grant university. The white of the books and the purple of the background designate the teaching mission of the University as it is achieved through undergraduate and graduate instruction.

The upper portion of the shield contains two sets of calipers and wheat sheaves illustrating the measurement system for research, as well as Clemson's tradition in agriculture and Extension. The three symbols — the books, calipers and wheat sheaves — also represent the humanities, technology and science.

The entire shield is joined by a small orange center shield bearing a white tiger mask symbolizing the abiding spirit of Clemson.

The crest is a gold palmetto tree, which emphasizes Thomas Green Clemson's desire that Clemson become "the people's university" for South Carolinians. It rises from a band of purple, orange, white and gold. The outer pair of colors, purple and gold, are the official colors of the University; the inner pair, orange and white, are Clemson's student colors.

## CANDIDATES FOR DOCTORS' DEGREES

FARRELL BLENN BROWN, Acting Dean, Graduate School

### COLLEGE OF AGRICULTURAL SCIENCES

#### DOCTOR OF PHILOSOPHY

##### Agronomy

John Charles Reardon \_\_\_\_\_ Clemson  
B.S., M.S., University of Georgia; M.A., Virginia Polytechnic Institute and State University  
Dissertation: The Influence of Carbon Dioxide Enrichment on the Seasonal Patterns of Nitrogen Fixation  
In Soybeans

##### Applied Economics

Katherine Haywood Daigle \_\_\_\_\_ Newport, Va.  
B.A., St. Mary's University; M.A., Washington State University  
Dissertation: Positive Shares in Bankruptcy: An Agency Theory Explanation

Ronald Earle Gregory \_\_\_\_\_ Greenville  
B.S., Furman University; MBA, Clemson University  
Dissertation: Succession and the Development of the Modern Corporation

Elizabeth Becker Young \_\_\_\_\_ Appleton, Wis.  
B.A., University of Wisconsin-Madison; M.A., Clemson University  
Dissertation: The Illusion of Fiscal Illusion: Unsticking the Flypaper Effect

##### Entomology

Jonathan Arthur Hornby \_\_\_\_\_ Lehigh Acres, Fla.  
B.S., Florida Institute of Technology; M.S., University of Georgia  
Dissertation: Aldicarb Distribution in Soil and Leaf Tissue of Pecan as Related to Application Methodology; Its Potential and Realized Effect on Pecan Aphids and Nut Yields

##### Nutrition

James Franklin Rhoades II \_\_\_\_\_ West Plains, Mo.  
B.S., M.S., University of Missouri  
Dissertation: Regulation of Food Intake in the Female Broiler Chicken

### COLLEGE OF COMMERCE AND INDUSTRY

#### DOCTOR OF PHILOSOPHY

##### Industrial Management

Sadananda Suresh Prabhu \_\_\_\_\_ Clemson  
B.T., Indian Institute of Tech. Bombay; M.S., Clemson University  
Dissertation: Effects of Diversification and Vertical Integration on Firm Performance: The Role of Market Structure

### COLLEGE OF ENGINEERING

#### DOCTOR OF PHILOSOPHY

##### Engineering

Abhijit Banerjee \_\_\_\_\_ Clemson  
BCHE, Jadavpur University; M.S., University of Calgary  
Dissertation: Interfacial Characterization of Carbon Fiber/Epoxy Composites (Field of Specialization: Chemical Engineering)

Timothy Nolan Burcham \_\_\_\_\_ Phil Campbell, Ala.  
B.S., M.S., Mississippi State University  
Dissertation: The Vortical Particle Size Distribution System (Field of Specialization: Agricultural Engineering)

Anish Rajanikant Jantrania \_\_\_\_\_ Vyara, India  
B.E., University of Udaipur; M.S., Ohio State University  
Dissertation: Expert System for Site Assessment and Design of Municipal Sludge Land Application (Field of Specialization: Agricultural Engineering)

Robert George Kaires	Rumnemede, N. J.
B.A., Rutgers, The State University of New Jersey; M.S., Michigan State University	
Dissertation: Analysis of Narrow Conducting Strips on a Grounded Dielectric Slab by Means of the Modified Diakoptic Theory (Field of Specialization: Electrical Engineering)	
Perng-Kwei Keith Lei	Chung-Ching, Chy-Sang
B.S., National Taiwan University; M.S., Clemson University	
Dissertation: Solar Driven Absorption Cycle Heat Pump Grain Drying System (Field of Specialization: Agricultural Engineering)	
Anthony Quinn Martin	Greenville, Miss.
B.S., M.S., University of Mississippi	
Dissertation: An Analytical and Experimental Investigation of an Axially-Directed Antenna In the Presence of an Infinite Conducting Cylindrical Tube (Field of Specialization: Electrical Engineering)	
Shahnam Navaee	Tabriz, Iran
B.S., M.S., Louisiana State University and Agricultural and Mechanical College	
Dissertation: Alternate Equilibrium Configurations of Flexible Cantilever Beams (Field of Specialization: Civil Engineering)	
James Carter Sinclair	Waynesboro, Va.
B.S., M.S., Virginia Polytechnic Institute and State University	
Dissertation: Performability and Perturbation Analysis of Virtual Circuit Packet Networks (Field of Specialization: Electrical Engineering)	
Derek Martin Wells	Calgary, Alberta
B.S., University of Calgary; M.S., University of Alberta	
Dissertation: Network Representation of Low-Level Sensorimotor Transformations Using Back Propagation (Field of Specialization: Bioengineering)	

## COLLEGE OF FOREST AND RECREATION RESOURCES

### DOCTOR OF PHILOSOPHY Forestry

Jyan-Chyun Jang	Taipei, Taiwan
B.S., M.S., National Taiwan University	
Dissertation: Development of In Vitro and In Vivo Screening Techniques for Detection of Littleleaf Disease Resistance	
Elizabeth Rose Adams	Key West, Fla.
B.A., Clemson University; M.S., Johns Hopkins University	
Dissertation: Women Primatologists in National Parks in East Africa	
Sung Soo Pyo	I-Ri-City, Jun-Book, Korea
BBA, Kyonggi University; M.S., California State University-Long Beach	
Dissertation: U. S. Tourism Demand: Seemingly Unrelated Regression Equation Models	

## COLLEGE OF SCIENCES

### DOCTOR OF PHILOSOPHY Chemistry

Walter Albritton Flomer	Wetumpka, Ala.
B.S., Auburn University	
Dissertation: Transition Metal Polytellurides	
Sun-Hee Hwan Hwang	Seoul, Korea
B.S., M.S., Yonsei University	
Dissertation: Studies on Alkali Metal Fluoride-Halogen Complexes and Some Fluorinated Cyano Compounds	
David Brent MacQueen	Goldsboro, N. C.
BSC, MSC, University of North Carolina at Wilmington	
Dissertation: The Synthesis, Characterization, Photochemistry, and Photophysics of Mono-and Poly-nuclear Transition Metal Hydrides	

**Physics**

George Albert Popson, Jr. ----- Kittanning, Pa.  
B.S., M.S., Indiana University of Pennsylvania  
Dissertation: Ionic Transport of Allovalent Solutes in AgBr and AgCl

**Zoology**

William Herschel Yenke ----- Wheeling, W. Va.  
B.A., Alaska Methodist University; M.S., Louisiana Tech University  
Dissertation: Ultrastructural Survey and Morphometric Analysis of Torpid and Euthermic Deermouse,  
*Peromyscus maniculatus nubiterrae*, Pinealocytes: Including Culturing with Norepinephrine

## CANDIDATES FOR EDUCATION SPECIALIST AND MASTERS' DEGREES

FARRELL BLENN BROWN, Acting Dean, Graduate School

### COLLEGE OF AGRICULTURAL SCIENCES

#### MASTER OF AGRICULTURAL EDUCATION

Candace James Cummings ----- Clemson Charles Tennyson Edens ----- Dalzell

#### MASTER OF SCIENCE

##### Agronomy

Dwi Putro Priadi ----- Palembang, Indonesia Simon Lawrence Worthington ----- Wellington, New Zealand

##### Animal and Food Industries

Tammy Hughes Alsep ----- Pendleton Walter Floyd Earle ----- Anderson

##### Entomology

Stuart Hubble Tedders ----- Perry, Ga.

##### Horticulture

Roger Linton Francis --- Castries, St. Lucia, West Indies

##### Wildlife Biology

Claude Spurgeon Cobb, Jr. ----- Lake City, Fla. Alan Brown Whitehouse ----- Wacissa, Fla.  
Gloria Carmen Lee ----- San Juan, Puerto Rico

### COLLEGE OF ARCHITECTURE

#### MASTER OF BUILDING SCIENCE AND MANAGEMENT

David Harry Parker ----- Spartanburg Roger A. Priest ----- Fort Pierce, Fla.

#### MASTER OF CITY AND REGIONAL PLANNING

Kimberly Crowder Herndon ----- Asheboro, N. C.

#### MASTER OF FINE ARTS

Dale Edward Clifford ----- Cincinnati, Ohio Deborah Reid Cooke ----- Florence

### COLLEGE OF COMMERCE AND INDUSTRY

#### MASTER OF BUSINESS ADMINISTRATION

Delbert Wayne Bell ----- Spartanburg	Russell Cannon Masters ----- Easley
James David Bennett, Jr. ----- Greenville	Jerry Lee McMurray ----- Taylors
Jacquelyn Lorraine Carson ----- Anderson	Charles Cecil Meeks, Jr. ----- Simpsonville
Rose Chu ----- Simpsonville	Robert Wayne Oki ----- Greenville
Kelly Cunningham ----- Taylors	David Alan Olasco ----- Allen Park, Mich.
John Willis Drake ----- Greenville	Michael Thomas Parker ----- Greenville
Grace Lowe Duvall ----- Spartanburg	Alvin Bruno Pauly ----- Greenville
Connie Leann Dyer ----- Simpsonville	Michael Joseph Silva ----- Greer
Frederick Christian Grimm ----- Greenville	Ann E. Stewart ----- Greenwood
Glenn Edward Heller ----- Taylors	Robert William Tanner ----- Greenville
Randall Eugene Herbig ----- Byron, Ill.	Richard Peter Wagner ----- Greenville
Gary Richard Holeman ----- Greenville	Martin Jeremy Wardle ----- Greenville
Robert Jude Kluka ----- Roseville, Mich.	Thomas Anderson Weir ----- Simpsonville
Robert Glenn Lockery ----- Spartanburg	Stephen Michael Williamson ----- Terre Haute, Ind.
Richard William MacNamee ----- Poughkeepsie, N. Y.	Craig Michael Winebarger ----- Mauldin
Thomas Keven Magee ----- Greenville	James Ferguson Withington ----- Greenville
	Valarie Wen Jun Yong ----- Singapore

**MASTER OF PROFESSIONAL ACCOUNTANCY**

Kathryn Krejci Brown	Easley	Kimberly McGuffin Parzil	Pickens
John Greeley Earls	Blacksburg	Terry Morris Smith	Duncan
Timothy Stanley Kudlock	Spartanburg	Uma Kolachina Velury	Hyderabad, India
Lisa Gaye Padgett	Spartanburg		

**MASTER OF ARTS****Economics**

Robert William Martin	Blacksburg, Va.	Charles Steven Zollinger	Islip, N. Y.
Martha Grace Watson	Batavia, N. Y.		

**MASTER OF SCIENCE**  
**Industrial Management**

Bryan Earl Dyer	Central	Joseph Bishop Nelson, Jr.	Clinton
Christina Marie Emich	Greenville	Mridula Madhavan Sugadhan	Greer
Ramesh Giururajan	Clemson	Laura Wanda Tripp	Charlotte, N. C.
Rebecca Cron Hobart	Ponte Vedra Beach, Fla.	Wendy Suzanne Whelchel	Columbia
Samuel Alton Holloway	Mountain Home, Ark.	Garry Michael Williams	Fort Lawn
Thomas Edward Knoebber	Edwardsburg, Mich.		

**Textile Chemistry**

Gregory Scott Straeffer Chattanooga, Tenn.

**Textile Science**

Elizabeth Baird McIntyre	Johnson City, N. Y.	Sarah Ann Williams	Cumberland, Md.
Shobhit Mehrotra	Kampur, India		

**COLLEGE OF EDUCATION****EDUCATION SPECIALIST****Administration and Supervision**

Carl Michael Campbell	Abbeville	James Nelson Elliott	Commerce, Ga.
Jessie Ray Curtis	McCormick	Jacob Lamont Oxendine	Dalzell
Charles Lee Dixon	Elberton, Ga.	William Cheek Wallace	Laurens

**MASTER OF EDUCATION****Administration and Supervision**

Kurtis Lee Fields	Easley	Stanley Edward Pressley	Anderson
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**Counseling and Guidance Services**

Robert Thomas Boyer	Clemson	Patricia Marie Morlino	Clemson
Charlotte Maret Cowden	Anderson	Gary Lamont Murphy	Anderson
Elizabeth White Dosher	Greenville	Elizabeth Morgan Poole	Clemson
Crystal Addison Greenway	Greenwood	Barbara Fortune Roberts	Greenville
Rachel Fleming Gunby	Greenville	Todd Lee Schonhar	Easley
Renee Trent Martin	Clemson	Elaine Rochester Williams	Seneca
Leigh Hartsell Miller	Greenville		

**Elementary Education**

Janice Norwood McCullough	Iva	Suzanne Mills Senklw	Easley
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**Reading**

Kari Norbeck Harper	Anderson	Judi Ann Smith	Anderson
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**Secondary Education**

Anna Maria Oakley	Clinton	Priscilla Fender Watson	Greer
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**Special Education**

Amy Wylene Hartzog	North Augusta
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**MASTER OF INDUSTRIAL EDUCATION**

Joseph Michael Barrett	Chapin	Alvin Goodnight Ludwig	Inman
Christopher Randall Blackburn	Greensboro, N. C.	John Squyres Olive	Clemson
		Donald Brent O'Shields	Greer
Kenneth Ray Britton	Simpsonville	Robert Morris Sandrock	Clemson
Johnny Ray Hendricks	Simpsonville	John Wesley Sexton	Greenville
Judith James LaBoone	Easley	Chi Yuen Yam	Hong Kong

## **COLLEGE OF ENGINEERING**

### **MASTER OF ENGINEERING**

#### **Electrical Engineering**

Jeffrey Robert Clobes \_\_\_\_\_ Yukon, Okla. William Gerald Lowery \_\_\_\_\_ Graham, N. C.

### **MASTER OF SCIENCE**

#### **Agricultural Engineering**

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

Timothy Paul Aydt \_\_\_\_\_ Nashville, Ill.

### **Bioengineering**

Lawrence Martin Boyd \_\_\_\_\_ St. Louis, Mo. Robert Joseph Kolbe \_\_\_\_\_ Amsterdam, N. Y.  
Pamela Ann Jacob \_\_\_\_\_ Baltimore, Md.

### **Ceramic Engineering**

David Andrew Clark \_\_\_\_\_ Simpsonville Shankar Sengupta \_\_\_\_\_ Clemson  
Dinesh Moorjani \_\_\_\_\_ Clemson

### **Chemical Engineering**

Doreen Carol Keptner \_\_\_\_\_ Jamesville, N. Y. Alan Jacob Schaff \_\_\_\_\_ Bozeman, Mont.

### **Civil Engineering**

Bhushan P. Akerkar \_\_\_\_\_ Bombay, India Jerry Lee Miller \_\_\_\_\_ Mt. Olive, Miss.  
Sujan Kumar Bhattacharya \_\_\_\_\_ Calcutta, India Santanu Sinharoy \_\_\_\_\_ Clemson  
Ravi Kumar Goli \_\_\_\_\_ Hyderabad, India Neal Everett Smith \_\_\_\_\_ Greenville  
Dinesh Kumar Jog \_\_\_\_\_ Sagar, India

### **Computer Engineering**

Satya Vrat Ahuja \_\_\_\_\_ New Delhi, India Sridhar Pingali \_\_\_\_\_ Hyderabad, India  
Chin-Jung Chen \_\_\_\_\_ Taipei, Taiwan

### **Electrical Engineering**

Kenan James Dickerson \_\_\_ Winston-Salem, N. C. Douglas Michael Mason \_\_\_ Yarmouth Port, Mass.  
Wei-Wen Steve Jeng \_\_\_\_\_ Changhwa, Taiwan Virendra Jagatkumar Patel \_\_\_\_\_ Bombay, India  
Priyadarshan Chandrakant Kadam \_\_\_ Pune, India Pravin Kumar Santiago \_\_\_\_\_ Coimbatore, India  
Byron Murray Keel \_\_\_\_\_ Barnwell Sang-Yang Shen \_\_\_\_\_ Taipei, Taiwan  
Guoh-Yih Gary Lee \_\_\_\_\_ Kaohsiung, Taiwan Jia-Wann Wu \_\_\_\_\_ Taipei, Taiwan  
Shan Li \_\_\_\_\_ Nanjing, China

### **Engineering Mechanics**

Aravind Ramaswamy Ajampur \_\_\_\_\_ Bangalore, India Parag Prabhakar Tope \_\_\_\_\_ Pune, India

### **Environmental Systems Engineering**

HornLean Chen \_\_\_\_\_ Taichung, Taiwan William Roland Fleck \_\_\_\_\_ Clemson  
Paul Blake Clark \_\_\_\_\_ Verona, N. J. Seunghan Park \_\_\_\_\_ Pusan, Korea

### **Industrial Engineering**

Peter King Fiorey \_\_\_\_\_ Fairbanks, Alaska Michael R. Hiser \_\_\_\_\_ Detroit, Mich.

### **Mechanical Engineering**

Mark Anthony Cote \_\_\_\_\_ Charlotte, N. C. Michael Robert Schroeder \_\_\_\_\_ Louisville, Ky.  
Kerry John Jameson \_\_\_\_\_ Pendleton Gaurav Sharma \_\_\_\_\_ Meirut, India  
Surendra Sudhir Khambete \_\_\_\_\_ Poona, India Amy Jean Townsend \_\_\_\_\_ Rock Hill  
Pramod Nambiar \_\_\_\_\_ Poona, India

## **COLLEGE OF FOREST AND RECREATION RESOURCES**

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

Timothy Allen Match \_\_\_\_\_ Columbus, Ohio

### **MASTER OF SCIENCE**

#### **Forestry**

Chii Ching Grace Sun \_\_\_\_\_ Taipei, Taiwan

## **COLLEGE OF LIBERAL ARTS**

### **MASTER OF ARTS**

#### **English**

Joanna Lee Acorn	Pendleton	Emily Badham Wood	Six Mile
Marian Elizabeth Curry	Mauldin		

#### **History**

Robert Patrick Collins, Jr.	Bradenton, Fla.
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## **COLLEGE OF NURSING**

### **MASTER OF SCIENCE**

#### **Nursing**

Ching Jean Chau	Taiwan	Barbara Ann Lustig	Sumter
Nancy Gomoll	Asheville, N. C.	Anne McNally Ramirez	Asheville, N. C.
Deborah Lynn Greenlaw	Easley		

## **COLLEGE OF SCIENCES**

### **MASTER OF SCIENCE**

#### **Chemistry**

Shirish Narayan Khanwalkar	Satara, India	Sridhar Yarlagadda	New Delhi, Delhi
Donald Lawrence Lech	Wallington, N. J.		

#### **Computer Science**

Bharat Chand Aluri	Vijayawada, India	Joe Thomas Hudson	Sumter
Lottie Karlyn Ammons	Mars Hill, N. C.	Jocelyn Utz Lovegrove	Greenville
Michael Scott Applegate	Voorheesville, N. Y.	James Charles O'Connor III	Central
Anastasios D. Arabatzis	Athens, Greece	James Steven O'Neal	Jackson, Miss.
Ramadoral Arunkumar	Boling Brook, Ill.	Sachin B. Palkar	Bombay, India
Todd Nathan Blumer	Otisville, Mich.	Aaron Lee Pugh	Fennville, Mich.
Judith Elaine Clegg	Greenwood	Venkateshwar Ellanki Rao	Hanamkonda, India
William Michael Craft	Abbeville	Emil Seaman	Waldport, Ore.

#### **Mathematical Sciences**

Charles Daniel Archibald	Allen Park, Mich.	Zhuojun Feng	Canton, China
Ashwin Arora	Clemson	James Anthony Knisely	Mifflinburg, Pa.
Karen Addelle Funk Copeland	East Lansing, Mich.	Katherine Hazen Lyles	Easley
Mark Alan Copeland	Tobaccoville, N. C.	Laurie Ann Miller	Fayetteville, N. C.
Jeffrey Scott Corteville	Palmyra, N. Y.	Michael Thomas Reitz	Trumansburg, N. Y.

#### **Physics**

Arijit Banerjee	Calcutta, India	Michael Kevin Stanley	Idaho Falls, Idaho
Ralph Alan Johnson	Charleston	Christopher John Tymczak	Reading, Pa.
Sebastian Michael Pascarella	Cheshire, Ct.		

#### **Zoology**

Claudia Kathleen Heinsohn	Folly Beach
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## CANDIDATES FOR BACHELORS' DEGREES

### COLLEGE OF AGRICULTURAL SCIENCES

THOMAS ROSS WILKINSON, Dean

#### BACHELOR OF SCIENCE

##### Agricultural Economics and Rural Sociology

John Andrew Brooks	Easley	Michael Rudolph Page	Columbia
Jessie Lillian Newton	Pickens	James Tillman Smith IV	Bishopville

##### Agricultural Education

*Jason Geer Pike	Spartanburg
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##### Agricultural Mechanization and Business

Robert Lynn Fort	Norway	Jeffrey Byron Jolley	Chesnee
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##### Agronomy

*Elizabeth Carmen Kirchner	Annandale, Va.
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##### Animal Industries

*Douglas Ross Jones	Greenville	Tillman Arnold Shealy	Saluda
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##### Aquaculture, Fisheries, and Wildlife Biology

***Sheron Wall Sweeney	Columbia	James Archie Sykes, Jr.	Conway
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##### Entomology

**John Kevin Moulton	Cheraw
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##### Food Science

Donna Mae Garren	Liberty	David Stanford Yates	Liberty
Heather Easton Reynolds			

Signal Mountain, Tenn.

##### Horticulture

Harry Earl Childs III	Seneca	Jeffrey Robert Watson	Wilmington, Del.
John Harris Drake	Inman	Jeffrey Davant Zahner	Highlands, N. C.
Fred Lee Petoskey III	Spartanburg		

##### Packaging Science

David Trent Clayton	Seneca	William Martin McCormic	Clemson
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## COLLEGE OF ARCHITECTURE

JAMES FRAZIER BARKER, Dean

#### BACHELOR OF FINE ARTS

Danielle Jean Dion	Raleigh, N. C.
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#### BACHELOR OF SCIENCE

##### Building Science and Management

Gina Lynn Beuchel	Columbia	John Thomas Kirsimagi	Dallas, Texas
Thomas Albert Brault	Rockville, Md.	Justin Lee Landers	Jacksonville, Fla.
Kenneth Logan Drafts	Lexington	Julian Ellis Saverence	Lamar
Francis Espy Gardiner III	Lothian, Md.	*Steven Bret Stouthamer	Clinton, N. J.
William Harold Johnson			

Point Pleasant Beach, N. J.

##### Design

Stephen Michael Aldrich	Calhoun, Ga.	Charles Willard Parks	Anderson
**Gregory Marler Allen	Cleveland, Tenn.	Michael Revels Sherburne	Jacksonville, Fla.
James Allan Babinchak	Charleston	Gerald Todd Sims	Greenville
Jeffrey Thomas Bose	Bonita Springs, Fla.	Daniel Raymond Sweeney	Annapolis, Md.
Robert Craig Cox	North Augusta	Deanna Marie Taylor	Spartanburg
Patricia Ellen Infinger	Charleston	Mark Zacapa	Tegucigalpa, Honduras
George Michael Nelon	Asheville, N. C.		

## COLLEGE OF COMMERCE AND INDUSTRY

RYAN CUSTER AMACHER, Dean

### BACHELOR OF SCIENCE

#### Accounting

**Angela Denise Addy	Leesville
Susan Maria Arnold	Kingsport, Tenn.
Stanley Keith Carwile	Belton
William Christopher Clark	Williston
**Tammy Leigh Collins	Greenville
Michael Garrett Conover	Akron, N. Y.
Toney McDowell Cotheran	Columbia
Jacqueline Dent	Charleston
**Crystal Whiting Flanagan	Liberty, Pa.
Susan Beth Fleck	Clemson
Todd Edward Gleeson	Kinnelon, N. J.
Melanie Hope Hammond	Edgefield
Melissa Leigh Higgs	Florence
**Dena Lynne Hinton	Easley

*Angela Diane Hutto	Seneca
Robert Parrish Little	Irmo
Darrin Gene Luksik	Central
Robert Ray Malone, Jr.	Greenville
Roderick Lee Martin	Baltimore, Md.
*Charlotte Little McConkey	Central
Eric Kent Meadows	Spartanburg
†Karen Elizabeth Owens	Kingsport, Tenn.
Robert Lewis Smith	Greenville
Sharon Lee Strickland	Anderson
***Mayme Tamela Tomlinson	Kingstree
Charles Robert Weeks	Central
Robert Phillip Wilkerson, Jr.	Blacksburg

#### Economics

David Wayne Bennett	Clemson
David Lawrence English	Mars Hill, N. C.
Kevin James Johnson	Pembroke, Mass.

Kimberly Victoria Knight	Mauldin
Ronald Louis Maday	Elmwood Park, N. J.
Brian Christopher Pinson	Clinton

#### Financial Management

Ricky Lee Adkins	Anderson
Alan Anthony Anderson	Pittsburgh, Pa.
Barbara Jean Anderson	Spartanburg
Tonja Ruth Bannon	Spartanburg
Eric Crafton Barnett	Greer
Christopher Michael Beard	Simpsonville
David Rhett Berger	Columbia
William Westbrook Bowen	Sumter
Arthur Olin Campbell	Clemson
**Natalie Susan Carr	Anderson
Patrick Steven Chang	Fairfax, Va.
Michael John DellaBarba	Annapolis, Md.
Patrick Magill Ethridge	Summerville
Brian John Falco	Barrington, Ill.
Michael Brian Freeman	Asheville, N. C.
Thomas Davidson George	Marion
Todd Matthew Gramann	Franklin, Tenn.
John Linwood Hanna	Johnsonville
Lori Sue Harrison	Williamston
Ralph Lee Hembree, Jr.	Gastonia, N. C.
Thomas Roderick Hunt	Clemson
Brad Alan Johnson	Pittsburgh, Pa.
Jon Meredith Keagle	Evans, Ga.
Samantha Anne Laster	Rixeyville, Va.

David Jerome Lathan	Rock Hill
Mark Andrew Madlinger	Beaufort
Bryan Anthony Maher	Princeton, N. J.
**Dianne Helen Martin	Charleston
Brent Dennis Masters	Greenville
Edward Lawrence Newburn	Aiken
Robert Keith Nix	Anderson
Julie Marie Norton	Duxbury, Mass.
Robert Henry Patterson, Jr.	Lexington
†David Gaynor Phillips	Newberry
Graham Gene Phillips, Jr.	Greer
Jonathan Mock Ramey	Stony Brook, N. Y.
Gina Michelle Rhinehardt	Clemson
Joy Lynn Roper	Williamston
Wade Thomas Shigo	Poolesville, Md.
Arle George Smarra	Sumter
Stephanie Catherine Smith	Anderson
James George Stefanick	Travelers Rest
Eric Charles Tabor	Anderson
*Melissa Suzanne Terry	Kershaw
Richard Curtis Thompson	Aiken
Albert Walter Williams, Jr.	Walterboro
**Susan Carole Wright	Marbury, Md.
Thomas Wistar Wright III	Branchville

#### Industrial Management

Mark Granville Baxa	Clemson
Andrew John Biddicombe	Broomall, Pa.
Robert Glenn Combs, Jr.	Lexington
Donald Keith Denton	Inman
Enrique Roberto Facusse	Tegucigalpa, Honduras
Jeffery Lynn Gardner	Gaffney
Richard Keith Gilbert	Murfreesboro, Tenn.
Frank Charles Hampton, Jr.	Anderson
Michael John Mahoney	Aiken
Eric Nathan Morrison	Charleston
Kenneth Scott Mueller	Mt. Pleasant

Stephen Brian Mueller	Mt. Pleasant
Orvans Herman Nelson	Columbia
Jonathan Roger Newton	Six Mile
Timothy James Nun	Atlanta, Ga.
John Gary Olivier, Jr.	Summerville
Clive Jonathan Pearson	Hampton, Va.
Dan Carmichael Pidcock	Moultrie, Ga.
John Perry Roberts	River Falls
Paul Eugene Thomas	Lake Wylie
Richard Lee Tucker	Brooklyn, N. Y.
*Melanie Ann Wallace	Greenville

### Management

Mark Wager Alexander	Spartanburg	*Elizabeth Zorn Lambert	Lexington
Robert V. Anderson, Jr.	Fair Haven, N. J.	Christopher Scott Lancaster	Mableton, Ga.
Mark Kevin Andrews	Fountain Inn	Phillip Bert Lowery	Clemont, Fla.
Timothy Ralph Barbare	Sumter	Ronald Gregory Matthews	College Park, Ga.
Melinda Bird	Delray Beach, Fla.	Patrick Brian McCarthy	Columbia
Isaiah Boyd II	Rock Hill	Sandra Ashley McTeer	Columbia
Alan Verner Burkett	Westminster	John Walter Alexander Mock	Jacksonville, Fla.
Bradley Gene Clark	Waterloo, Iowa	Jeffrey Scott Moores	Tequesta, Fla.
Jerry Lee Crocker, Jr.	Spartanburg	John Brian Mullins	Honea Path
Frank Anthony Crossen	Kendall Park, N. J.	Leigh Kaye Newnam	Houston, Texas
Angela DeLaine Dadieman	Summerville	Coleen Ellen Okner	Andover, N. J.
John Sutton Flythe	Greenville	Mary Kathleen Owens	Sumter
Greta Greer Gatlin	Buford, Ga.	Edward Rhodes Pennebaker	Spartanburg
Frances Marie Goscinski	White Rock	Paul Polito	Yorktown Heights, N. Y.
Lana Douglas Grant	Townville	Matthew Eugene Poore	Anderson
Samuel Lance Gray	Williamston	Carla Reeves Rathbone	Seneca
William Bartholomew Hallatt	Lewiston, N. Y.	Brian Alan Sanders	Graniteville
Kelly Ann Hammond	Columbia	Joseph David Schofield III	Greenville
Wayne Edward Harps	Griffin, Ga.	Candace Connell Scott	Clearwater
Almee Susan Henry	Melbourne Beach, Fla.	Brian Russell Swaney	Pendleton
Todd Meredith Herndon	Alexandria, Va.	Jeffrey Wilson Taylor	Seneca
Terrance Jerome Herrington	Hartsville	Stanley Edward Todd	Greenville
Peter James Hoffman	Greenville	Vince Herwin Van Gelderen	Middenbeemster, Holland
Sherry Elaine Jordan	Florence	Jeffrey Todd Vassey	Anderson
Calvin William Kinard, Jr.	Greenwood	Sarah Katherine Wells	Iromo
Linda Michelle LaFleur	Broadview Heights, Ohio	Lula Deneen Wiley	Pendleton
Richard Lloyd Lake	Orangeburg		

### Marketing

Michael Stephen Adcock	Taylors	Deana Kaye Hammett	Bolling Springs
Abigail Elizabeth Ahnert	Bushkill, Pa.	Jerry Evans Hunter, Jr.	Greenville
Scott Kevin Andrews	Laurens	Blaire Patrice Jones	Jacksonville, Fla.
Thomas Richard Bair	Norway	Melody Jean Lamm	Greenville
*Ann Caroline Bigby	Norcross, Ga.	Kevin Wade Lee	North Charleston
William Bryan Bigham	Florence	Robert Lapsley Medlin, Jr.	Florence
Peter John Brown	Skaneateles, N. Y.	Carey Lee Palmer	Anderson
Robert Christopher Burnsido	Seneca	Julie Maria Patterson	Pendleton
Thomas David Church, Jr.	Greenville	Patrick Frank Popek	South Boston, Va.
Shane Morgan Farris	Atlanta, Ga.	Heyward Michael Stewart	Green Mountain, N. C.
Jeffrey Scott Gosnell	Moncks Corner	Patti L. Tolliver	Greenville
Scott Ernest Gstell	Cromwell, Ct.		

### Textile Chemistry

Jonathan David Stevens — High Point, N. C.

### Textile Management

Kristen Yvette Antley	Branchville	Allen Blake LeBrun	Chesnee
Bretton Louis Brown	Spartanburg	Michael Wayne Norwood	Fort Mill
Scott Harold Daugherty	Greer	Kathryn Lynn Wernersbach	Norristown, Pa.
Anna Frances Duke	Seneca		

## COLLEGE OF EDUCATION

GORDON WALTER GRAY, Dean

### BACHELOR OF ARTS

#### Early Childhood Education

***Lisa Elaine Coleman	Marietta, Ga.	Linda Anne Luther	Topsail Beach, N. C.
Keisha Renee Fuqua	Aiken	Melissa Suzanne Smith	Greenville

### **Elementary Education**

Andrea Joan Brown	Easley	Lindsey Medlock Lingefelt	Pendleton
Marianne Amee Burnau	Spartanburg	Lisa Jayne Locke	Honea Path
*Jennifer Marion Comer	Summerville	Debra Lawrence Nalley	Liberty
Christina Maria Connelly	Georgetown	**D'Etta Elizabeth Price	Lexington
Barbara Babb Cooley	Greer	Sarah Ann Richardson	Clemson
Angela Katherine Dodds	Chester	Suzanne Marie Samuelson	Brookfield, Ct.
Erika Jan Elder	Summerville	†**Myriam Marie Seoane	Morris Plains, N. J.
Wendy Janell Elliott	Greenwood	Linda Carol Shear	Rock Hill
Helen Valerie Epps	Lake City	Jacqueline Rose Sherlin	Athens, Tenn.
Trixie Maise Golden	Seneca	Lisa Annette Waldrep	Westminster
Shannon Paige Hucks	Spartanburg	Lisa Caroline Weinheimer	Charleston

### **Secondary Education**

Cynthia Marie Biggerstaff	Clemson	Donna Lorraine Joyner	Columbia
Rosemarie Frances Broadwell	Charleston	**Nancy Gayle Knebel	Charleston
Reed Ferdinand Charpia III	Bennettsville	Gilbert Leamond Lackey	Columbia
Susan Elizabeth Childress	Easley	Elisabeth Miles Montgomery	Camden
Nancy Elizabeth Dean	Marietta, Ga.	**Jacquelyn Powell Nelson	Anderson
Wendy Ann Foster	Greer	Terri Elizabeth Poston	Barnwell
Valerie Caroline Gaddy	Lakeview	**Susan Dawn Redd	Aiken
Ronnie Edward Green	Greer	Dale Lance Roberts	Chester
Lisa Ann Hood	West Union	Walter Todd Sanders	Easley
**Claudia Maria Johnson	Westminster	*Mary Andrea Smith	Mauldin

### **BACHELOR OF SCIENCE**

#### **Graphic Communications**

Ella Ruth Coleman	Jacksonville, Fla.
Terri Lynn Farmer	Owings, Md.
David Simpson Hartman	Charleston
Jennifer Howell Jordan	Clemson
James Howard Knox, Jr.	Fort Mill
Phillip Craig Nelson	Hampton, Ga.

Edward Lee Newsome	Charlotte, N. C.
*Karenmary Penn	Libertyville, Ill.
Amy Rebecca Pitts	Greenville
Kim Aline Shuster	Oyster Bay, N. Y.
Michelle Josephine Warford	Greensboro, N. C.

### **Industrial Education**

Robert Luther Chapman, Jr.	Spartanburg	Glynn Worrell Webster, Jr.	Lake City
William Howard Frady, Jr.	Walhalla		

### **Science Teaching**

Robert Pierce Brown, Jr.	Gaffney	Richard Carroll Pace	Inman
Charles Alexander Costner	Forest City, N. C.	Eric Daniel Pare	Jacksonville, N. C.
Denver Lee Cromer	Ridge Spring	Joshua Wilson Stout IV	Pittsburgh, Pa.
Diane Spiva Lankford	Easley		

## **COLLEGE OF ENGINEERING**

**JOSEPH CHARLES JENNETT, Dean**

### **BACHELOR OF SCIENCE**

#### **Ceramic Engineering**

Brian Keith Arldt	Simpsonville	Scott Allan Linde	Orlando, Fla.
Gary Alvan Elder	Royal Oak, Mich.	Gregory Mark Lowe	Holland Township, N. J.
Kimberly Rama Fleming	Buffalo	James Thomas Meier	Waldorf, Md.
Timothy LaVern Glover	Johnston	Harvey Clark Rettberg III	Pickens
*Joseph Andrew Hill	Greenville	Owen Nikolai Vaughan	Clinton, N. J.
Clifford Wilson Hubbard III	Norfolk, Va.	Clifford Eugene Wilkins, Jr.	Randolph, N. J.
John Luke Jackson	Picayune, Miss.		

### **Chemical Engineering**

Daryn Miles Baker	Hanahan	*Kurt Eugene Mescher	Mt. Pleasant
Jacqueline Liesl Driver	Lancaster	Robert Joseph Mussat	Summerville
**Carole Elizabeth Gibson	Newberry	*Alan Warren Smith	Easley
David Craig Laughridge	Simpsonville	Alice Rachel Travis	Allendale
*Clifton Johnson Lewis	Anderson		

### Civil Engineering

Cameron Bryan Beard	Ft. Walton Beach, Fla.	Charles Morgan Grainger, Jr.	Charleston
William Astor Blackwood III	Spartanburg	Russell Ericson Green	Fairfax Station, Va.
Karen Ann Bobo	Spartanburg	Christopher Norman James	Decatur, Ala.
James Bryan Boyd	Marietta, Ga.	*Bradley Troy Keaton	Seneca
Gregory Eugene Branham	Columbia	John William McLure IV	Irmo
*Susan Lynne Burgin	Greenville	Amir Mohamad	Kuala Lumpur, Malaysia
Clinton Edward Cole	Powder Springs, Ga.	Gregory James Oakhill	Greenville
Michael Arthur Collins	Seville, Spain	Steven Paul Pierotti	Corning, N. Y.
Gregory Thomas Cook	Columbia	Arthur Davis Plowden III	Sumter
Clifford Elliott Costa	Charleston	MaryMims Reid	Mt. Pleasant
Michael Douglas Dalrymple	Charleston	**Joseph F. Rhodes	Anderson
Lelia Burrow Davis	Greenwood	George Stone Sweet III	Charlotte, N. C.
Michael James DelCharco	Ocala, Fla.	Rhonda Kay Wright	Charleston
Mark Stephen Demidovich	Wilkes-Barre, Pa.	Thomas Campbell Zeaser	Medford, N. J.

### Computer Engineering

Robert Wesley Cobb	Clover
Duane Steven DeWeese	Florence
*Lynwood Earl Hines	Charleston
*Lenzy Sheppard Randall, Jr.	Clinton

John Michael Schneider	Ellicott City, Md.
Thomas Scott Shane	Atlanta, Ga.
Humberto Michael Tavares	Rock Hill

### Electrical Engineering

James Gallivan Bannon III	Arlington, Texas
Paul Barilovits	Mauldin
Byron Lee Bass	Charleston
Kenneth W. Bauman	Taylors
Noor Mohammed Bahrde	Clemson
Brenda Dean Burkett Bultz	Mt. Pleasant
Garvey Elton Cills	Columbia
*Lori Ann Dillard	Spartanburg
**William Lee Drake	Simpsonville
*Jeff Alan Dubis	Summerville
†**Elizabeth Haun Findley	Seneca
*William Ronald Fox II	Simpsonville
Paul Allen Hanson	Clemson
†*William Leighton Boyd Horton, Jr.	Charleston
Tony Nimoy Inabnette	Gaffney
Nancy Jean Malay	Murraysville, Pa.

*Monica Leigh McCachren	Charlotte, N. C.
James Robert Porter, Jr.	Florence
Mark Andrew Robertson	Enoree
Michael David Robinson	McBee
**Joseph Allen Sating	Dunwoody, Ga.
Darin Oscar Sawich	Salem
Hokun Sewell	Goose Creek
George Stacy Shumpert	Fairview
Daniel Hallett Simpson	Nedham, Mass.
Gustavus Brock Smith	Pickens
Jody Cannon Socha	Aiken
Christopher Donald Sturkie	Greenville
Curtis Raymond Sturkie	Greenville
Traci Leigh Sumner	Greenville
John Preston Yonce, Jr.	Johnston
Lance Bryan Young	Charlotte, N. C.

### Industrial Engineering

William Colucci	Summerville
Gary Charles Grace, Jr.	Baltimore, Md.
James Winston Haselden	Latta
Patricia Myers Hutson	Moncks Corner
Alicia Jean Kaczor	Hamburg, N. Y.
David Porter Kitts	Hendersonville, N. C.
Sean Thomas MacDermant	Beaufort
James Himmele Munroe	Sumter
Wendell Burnett Nimmons	Olar
Karen Marie O'Brien	West Redding, Ct.

*Amy Elizabeth Roberts	Gainesville, Ga.
April Michelle Sain	Hendersonville, N. C.
Brigham Stuart Serman	Plano, Texas
Sonya Alethea Spratley	Augusta, Ga.
*Bryan Allen Sudduth	Greer
Michael Alan Taylor	Dalzell
Myers Turner	Inman
Julia Kristin Walkup	Tucson, Ariz.
Leo Joseph Watts II	Aiken

### Mechanical Engineering

Gregory Lee Allen	Anderson
Robert Basil Antley	Summerville
*Alan Wayne Bennett	Spartanburg
**James Hurley Brown	Mountain Rest
*Michael James Brown	Simpsonville
Lori Reanee Calsing	Spartanburg
Thomas Alexander Campbell IV	Seneca
Jonathan Cockle	Myrtle Beach
Troy Edward Davis	Piedmont
Thomas Allen Garner	Seneca
James Edwin Gehle	Clifton, Va.
William Carlson Long	Florence

Christian Thomas MacMillan	St. Charles, Ill.
Robert O'Henry Maharrey	Charleston
Theresa Webb Mangum	Williamston
Steven Patrick Godoy	Spartanburg
Gregory Earle Goff	Greenwood
William Anthony Jones	Liberty
Joseph Benjamin Long	Walhalla
James Steven McCalla	Iva
David William McClain	West Pelzer
**Lee Joseph McIlvaine	Middletown, Pa.
Lawrence Arthur McMillan	Allendale
Francis Michael Meredith, Jr.	Greenwood

**Mechanical Engineering (continued)**

*Donna Leigh Miller	Lilburn, Ga.	Patrick David Quarles	Springfield, Tenn.
Jeffrey Wayne Miller	Atlanta, Ga.	David Anthony Rogers	Walhalla
*Jerry Michael Moore	Anderson	Russell Anthony Roman	Greenville
Steven Tracy Murray	Greenville	Mark Andrew Schnetzka	York, Pa.
John Arthur Penoyer, Jr.	Greenville	Matthew Williams	Spartanburg
Mark Timothy Pope	Greenville	Stacy Lynn Yike	LaGrange, Ga.
Stephen Anthony Porio	Gaffney	Fred Daniel York	Columbia

**COLLEGE OF FOREST AND RECREATION RESOURCES**

BENTON HOLCOMB BOX, Dean

**BACHELOR OF SCIENCE  
Forest Management**

Anthony Keith Goodnough	Greenville	Douglas Hart Reid Treadaway	
William John Hayne	Summerville		Hilton Head Island

**Parks, Recreation, and Tourism Management**

Keith Douglas Barker	St. Mary's, Ga.	Daniel Alan Lentz	Charleston
Donna White Carroll	Seneca	David Clifton Linder	Chester
Paul Damon Cook	Taylors	Hillary Masters Lyles	Columbia
Julie Bobo Davis	Anderson	Beth Ann Meissner	Glenwood, Md.
Denise Marie Fallin	Thomasville, Ga.	Laura Jean Packard	Greenville
Glenda Lyn Glasier	Naples, Fla.	David Williamson Ramey, Jr.	
Michael London Huggins	Newberry		Stony Brook, N. Y.
Enis Alexander James	Long Creek	Patricia English Salisbury	Summerville
Jon Eric James	Hartsville	Gerald Alan Wilkie	Anderson
Darlene Devore Jones	Dunwoody, Ga.	Christine Margaret Woodard	Charleston

**COLLEGE OF LIBERAL ARTS**

ROBERT ALFRED WALLER, Dean

**BACHELOR OF ARTS  
English**

Susan Gayle Ainsley	Vienna, Va.	Rita Gail Hunter	Greenville
Patricia Ann Barteski	Huntington, N. Y.	Vonda Kay James	Westminster
Miriam Wynn Betchman	Sumter	Stephen Michael Lomas	Pendleton
Lisa Ann Bradley	Spartanburg	Huly Thomas Meares III	Hartsville
Rim Alan Cox	Syracuse, N. Y.	Valerie Paty	Atlanta, Ga.
Elizabeth Reid Duncan	Hartsville	Mary Elizabeth Perry	Anderson
LeeAnn Cora Elwood	Ft. Worth, Texas	*Julia Sisk Pinson	Seneca
Jayne Ann Heckert	Homestead, Fla.	Kelley Michelle Smith	Anderson

**History**

Harriet Dickerson Dennis	Spartanburg	Lisa M. Krawiec	Brick, N. J.
Blair Tracy Hinson	Clemson	Matthew James Regnier	Clemson
Kristi Chaconas Hucks	Summerton		

**Language and International Trade**

Ervin Roderick Eledge	Simpsonville	Carmen Theresa Lennartz	Clemson
Gretchen Ann Gamble	Columbia	*Sherry Patricia Smith	Marianna, Fla.

**Modern Languages**

**Claudia Maria Johnson	Westminster	Marsha Anne Lamm	Greenville
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**Political Science**

Jennifer Lynn Boyt	Moncks Corner	Ansel Todd King	Clemson
Stephen Lynwood Brown	Moncks Corner	Kelly Sutton	Bethel, Ct.
Laura Elizabeth Caldwell	Saluda	Catherine Ellen Sylvester	Seneca
Eileen Bridget Counihan	Piedmont	Patricia Ventura	Gainesville, Fla.
Marjorie DeAnne Fisher	Anderson	Matt Raymond Walker	North Augusta
Kimberly Sherwin Grimes	Westminster	Michael Lee Waller	Jacksonville, Fla.
Michael Trezevant Hane	Mt. Pleasant		

### **Psychology**

***Ann Rene Begley	Anderson	Mary Laura Harris	Kannapolis, N. C.
Leslie Marie Benson	Seneca	Erik Georg Knabenhaus	Spartanburg
*Marie Blume	Greenville	Tonya Michelle Knight	Abbeville
Mary Pia Centanni	New Providence, N. J.	Delia Anne Markham	Charleston
***Tammy Lea Dew	Marion	Debora Ann Martin	Dunwoody, Ga.
Margaret Elisabeth English	Clemson	Karen Lynn Norman	Medford, N. J.
Carroll Louise Finklea	Pamplico	Mary Elizabeth Painter	Anderson
James Milford Garrison III	Greenville	Mary Christian Stevenson	Camden
**Ida Renee Brinson Hanson	Clemson		

### **Sociology**

Tracey Diane Ault	Danbury, Ct.	Mark Anthony Hendricks	Easley
Scott Christopher Broyles	Irmo	Jacqueline Kirstin Jones	Goose Creek
Carolyn Thrasher Burriss	Anderson	Rhonda Gayle McCurry	Clemson
David Leroy Cockrell, Jr.	Greenwood	Theresa Tim Oliver	Clemson
*Carolyn Sophia Dalton	Radnor, Pa.	John Barnum Soggs	New Hartford, N. Y.
Jennifer Ann Feeley	Plantation, Fla.	John Donal Sullivan	Rockville Center, N. Y.

### **DOUBLE MAJOR**

#### **English and History**

Michael Francis Doyle, Jr. ----- Hartsville

#### **Psychology and Spanish**

Mary Elizabeth Grady ----- Summerville

## **COLLEGE OF NURSING**

**OPAL SHEPARD HIPPS, Dean**

### **BACHELOR OF SCIENCE**

#### **Nursing**

Andrea Alicia Alexander	Greenville	†*Karen Frances Key	Greenville
†*Sandra Abercrombie Austin	Anderson	Joanne Rose Marullo	Clemson
Marla Anne Vidano	Bridgewater, N. J.	Lisa Ann McGahey	Anderson
Amanda Michelle Batson	Greenville	**Elizabeth Lander Purcell	Greenville
Terry Hanks Busby	Anderson	Christina Gail Skowysz	Surfside Beach
Tammy Gambrell Edge	Oakway	Dana DeLaine Smith	Andrews
Susan Rebecca Houser	Mooresboro, N. C.	Candace Johnson Tindal	Greenville
Kourtney Kahler	New Braunfels, Texas	Dana Marie Walker	Anderson

## **COLLEGE OF SCIENCES**

**BOBBY GUINN WIXSON, Dean**

### **BACHELOR OF ARTS**

#### **Biological Sciences**

\*Laura Ann Grignano ----- Pittsburgh, Pa. Richard Thomas Patrick ----- Charleston

#### **Geology**

Craig Allan Lee ----- Hartsville

### **BACHELOR OF SCIENCE**

#### **Biochemistry**

Sonja Yvette Grooms ----- Columbia Stanley Cranfield Lorbach ----- Greenville

#### **Biological Sciences**

\*Troy William Weakley ----- Charlottesville, Va. Scotty Randolph Welch ----- Lake City

### **Computer Information Systems**

*Angela Sue Eyman	Oak Ridge, Tenn.	*Sungmi Kim Phan	Simpsonville
*Melissa Michele Madden	Anderson	Dennis Douglas Sanderson	Florence
Thomas James Neideigh, Jr.	Simpsonville		

**Computer Science**

*Kenneth E. Busby	Starr	Paula Cassandra Peden	Greenville
*Bobbi Jo Campbell	Liberty	Janice Marlene Powell	Norris
Gary William Flake	Ridgeway	Anthony Frederick Radford	Lilburn, Ga.
*Brian Lee Guy	Chester	Shamsiyati Ramli	Pahang, Malaysia
Thomas Hoil McGuinn	Easley	Walter Earl Walker, Jr.	Landrum
*Shadi Motamedi	Tehran, Iran	**John Lee Wood	Clemson
Jeffrey Arthur Moyer	North Wales, Pa.	Pik Yi Yue	Clemson
*Michael Kenneth O'Rourke	Beaverton, Ore.		

**Geology**

Gary Andrew Dalton \_\_\_\_\_ Greenwood

**Mathematical Sciences**

Erica Louise Boseman	Anderson	Sheila Muldrow Johnson	Florence
Jennifer Denise Brown	Columbia	Susan M. Kostner	Parsippany, N. J.
Scot Alan DeWerth	Spartanburg	Lynn Babec LeMaster	Tallahassee, Fla.
Ava Marie Gibson	Henderson, N. C.	Daniel King McCowan	Anderson
Elizabeth E. Grill	Pittsburgh, Pa.	*Charles Raymond Smith III	Rock Hill
David Andrew Harris	Woodbridge, Va.	*Kimberly Kaye Summers	Anchorage, Alaska

**Microbiology**

Ronald Glenn Barbrey, Jr.	Fountain Inn	Kelly Ann Clancy	Stone Mountain, Ga.
*Esther Penelope Black	Lexington	Christine Mary Schrenk	Hockessin, Del.
Daretta Ann Bruchey	Port Deposit, Md.	Michael Thomas Winans	Georgetown

**Physics**

Skelly Ann Holmbeck \_\_\_\_\_ West Chester, Pa. †\*Michael James Reynolds \_\_\_\_\_ Spartanburg

**Zoology**

Karen Renee Cohen \_\_\_\_\_ Falls Church, Va.

\*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.

## 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'affairs 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 founding 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 ten major academic units. These are the College of Agricultural Sciences, the College of Architecture, the College of Commerce and Industry, the College of Education, the College of Engineering, the College of Forest and Recreation Resources, the College of Liberal Arts, the College of Nursing, the College of 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 National Architectural Accrediting Board, National League for Nursing, Society of American Foresters, American Assembly of Collegiate Schools of Business, Accreditation Board for Engineering and Technology, and National Council for Accreditation of Teacher Education.

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.

## 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.

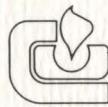
### Chorus

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.



CLEMSON  
UNIVERSITY  
CENTENNIAL  
1889-1989