8-12-1978

Clemson Commencement Program, August 1978

Clemson University

Follow this and additional works at: https://tigerprints.clemson.edu/comm_programs

Materials in this collection may be protected by copyright law (Title 17, U.S. code). Use of these materials beyond the exceptions provided for in the Fair Use and Educational Use clauses of the U.S. Copyright Law may violate federal law.

For additional rights information, please contact Kirstin O'Keefe (kokeefe [at] clemson [dot] edu)

For additional information about the collections, please contact the Special Collections and Archives by phone at 864.656.3031 or via email at cuscl [at] clemson [dot] edu

Recommended Citation

This Article is brought to you for free and open access by the Academic Affairs at TigerPrints. It has been accepted for inclusion in Clemson Commencement Programs by an authorized administrator of TigerPrints. For more information, please contact kokeefe@clemson.edu.
Graduation Exercises

August 12, 1978

Clemson, South Carolina
GRADUATION
Saturday, August 12, 1978
11:00 a. m. Littlejohn Coliseum

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

Invocation
The Reverend Howard Backus
Assistant Rector, Holy Trinity Episcopal Church
Clemson, South Carolina

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

Benediction
Frank W. Breazeale, Organist
CANDIDATES FOR BACHELORS’ DEGREES

COLLEGE OF AGRICULTURAL SCIENCES
LUTHER PERDEE ANDERSON, Dean

BACHELOR OF SCIENCE
Agricultural Mechanization and Business
David Derrick Bauknight  Imo
David Bruce Baxley  Aynor

Animal Industries
**William Harry Amspacher, Jr.  Pickens
Raymond Lee Fowler, Jr.  Bennettsville
James Monroe Neel IV  Aubrey, Ga.

Economic Biology
Osborn Earl Baker III  Columbia
Margaret Danette Begemann  Rock Hill

Plant Sciences
Alan David Arant  Fort Motte
*Rosemary Ryder Brown  Greenville
Carol Ann Carson  Gaffney
Rena Bee Elliott  Aiken

Pre-Professional Studies
*David Lawrence Brown, Jr.  Lake City

*David Michael Pinson  Aiken

COLLEGE OF ARCHITECTURE
HARLAN EWART McCLURE, Dean

BACHELOR OF ARTS
Pre-Architecture
Theresa Joan Bowen  Ocean City, N. J.
*Ruth Elias  New York, N. Y.

BACHELOR OF SCIENCE
Building Construction
Christian Thomas Fitzgerald  Cranford, N. J.

Pre-Architecture
*David John Allison  Norristown, Pa.
William Edward Burroughs  Elmira, N. Y.

COLLEGE OF EDUCATION
HAROLD FOCHONE LANDRITH, Dean

BACHELOR OF ARTS
Early Childhood Education
Deborah Bishop Boyden  Arlington, Va.
Margaret Suzanne Burch  Chesterfield

Elementary Education
Kathy Owens Anthony  Greenville
Tamara Ann Bashor  Conway
Mary Ann Fant Browne  Anderson
Brian Eugene Kier  Haines City, Fla.
**Nancy Johnson Lasater  Anderson

*Patricia Jean McLellan  Darlington
**Ginger Beck Parker  Ozark, Ala.
**Susan Taylor Reamer  Greenville
*Carol Jo Werner  Honea Path
<table>
<thead>
<tr>
<th>Secondary Education</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>Randy Morgan Barnes</td>
<td>Chester</td>
</tr>
<tr>
<td>Rebecca Jane Bradham</td>
<td>Conway</td>
</tr>
<tr>
<td>*Sandra Periene Davis</td>
<td>Spartanburg</td>
</tr>
<tr>
<td>*Donna Louise Holcombe</td>
<td>Easley</td>
</tr>
<tr>
<td>Jennie Rhodes Simmons</td>
<td>Greenwood</td>
</tr>
<tr>
<td>*Susan Gail Thomas</td>
<td>Seneca</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BACHELOR OF SCIENCE</th>
<th>Agricultural Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Henry Stewart Glenn, Jr.</td>
<td>Anderson</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Industrial Education</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malcolm Fletcher Anderson, Jr.</td>
<td>Camden</td>
</tr>
<tr>
<td>Clarence Ralph Garrett, Jr.</td>
<td>Laurens</td>
</tr>
<tr>
<td>Leonard Allen Williams</td>
<td>Anderson</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Science Teaching</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Carrie Lockaby Burgess</td>
<td>Travelers Rest</td>
</tr>
<tr>
<td>Richard Scott Clark</td>
<td>Chesterfield</td>
</tr>
<tr>
<td>Thomas Andrew Young</td>
<td>Anderson</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COLLEGE OF ENGINEERING</th>
<th>LYLE CHESTER WILCOX, Dean</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>BACHELOR OF SCIENCE</th>
<th>Agricultural Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guy Adair Tumblin, Jr.</td>
<td>Clinton</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ceramic Engineering</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robert Nathan Anderson</td>
<td>Clemson</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Engineering</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>William Steven Armstrong</td>
<td>Gray Court</td>
</tr>
<tr>
<td>Craig Dean Campbell</td>
<td>Orangeburg</td>
</tr>
<tr>
<td>Mutasim Abid Khayri</td>
<td>Ramallah, Israel</td>
</tr>
<tr>
<td>***McKinley Weaver Koth</td>
<td>North Augusta</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Civil Engineering</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Burdine Cooper</td>
<td>Greenville</td>
</tr>
<tr>
<td>Donald Bruce Fore</td>
<td>Georgetown</td>
</tr>
<tr>
<td>Harry William Hughes</td>
<td>Argyle, Ga.</td>
</tr>
<tr>
<td>James Dudley Patrick, Jr.</td>
<td>St. George</td>
</tr>
<tr>
<td>Mavis Xaiver Polk</td>
<td>Fairfax, Va.</td>
</tr>
<tr>
<td>Donald Dunbar Smith</td>
<td>New Ellenton</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical Engineering</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>James Edwin Broyles</td>
<td>Charleston</td>
</tr>
<tr>
<td>*Edward Albert Rapp</td>
<td>Seneca</td>
</tr>
<tr>
<td>Kambiz Shahnazi</td>
<td>Tehran, Iran</td>
</tr>
<tr>
<td>Richard Jay Silverman</td>
<td>Huntington, N. Y.</td>
</tr>
<tr>
<td>Frank Willis Stiff</td>
<td>Salem, Va.</td>
</tr>
<tr>
<td>Joseph Shepard Sublette, Jr.</td>
<td>Sumter</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Engineering Analysis</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robert Adger Bowen III</td>
<td>Macon, Ga.</td>
</tr>
<tr>
<td>Samuel Worthy Gough, Jr.</td>
<td>Edisto Beach</td>
</tr>
<tr>
<td>Ralph Griffin Macdonald, Jr.</td>
<td>Sumter</td>
</tr>
<tr>
<td>Joe Marlon Timmons, Jr.</td>
<td>Travelers Rest</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Engineering Technology</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gary Brendan Christman</td>
<td>Sea-Cliff, N. Y.</td>
</tr>
<tr>
<td>Walter Marion Parnell, Jr.</td>
<td>Greenwood</td>
</tr>
<tr>
<td>Timothy Alan Pennekamp</td>
<td>Charleston</td>
</tr>
<tr>
<td>***Reamer David Todd, Jr.</td>
<td>Greenville</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mechanical Engineering</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Sue Williams Baldwin</td>
<td>Clemson</td>
</tr>
<tr>
<td>Ronald Vinson Brooks</td>
<td>Anderson</td>
</tr>
<tr>
<td>Donald Odell Carpenter</td>
<td>Columbia</td>
</tr>
<tr>
<td>Gary Monroe Moore</td>
<td>Anderson</td>
</tr>
<tr>
<td>Willard Hugh Odom</td>
<td>Salters</td>
</tr>
<tr>
<td>Lewis Philemon Pierce</td>
<td>Moncks Corner</td>
</tr>
</tbody>
</table>
## COLLEGE OF FOREST AND RECREATION RESOURCES

**BENTON HOLCOMB BOX, Dean**

### BACHELOR OF SCIENCE

**Forest Management**

- Walter Carl Credle III, Matthews, N. C.
- James Shadrach Grant, Jr., Andrews
- *John Robert Helms, Jr., Orangeburg

**Recreation and Park Administration**

- Michael David Ausherman, York, Pa.
- Jane Crosby Bridges, Heath Springs
- David Donald Brown, York, Pa.
- *Allie Sue Edwards, Griffin, Ga.
- Susan Elaine Epting, Columbia
- *Leo Dale Gunter, Columbia
- **Donna Lynn Harris, Atlanta, Ga.
- Leslie Kyle Haskett, Ocean City, N. J.
- Paul Michael Havice, Pickens
- Karen Hoefer Heaton, Seneca
- James Gary Hood, Rock Hill
- William Beatty Jackson, Greenville
- *Robert Mark Jordan, Summerville
- Kathleen Joyce Kuna, Columbia

## COLLEGE OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE

**WALLACE DABNEY TREVILLIAN, Dean**

### BACHELOR OF ARTS

**Economics**

- Edward George Schroff, Milltown, N. J.

### BACHELOR OF SCIENCE

**Accounting**

- Malcolm Everette Heaton, Anderson
- Donald Wilton Saverance, Lamar

**Administrative Management**

- *Sheila Maxine Armstrong, Georgetown
- **Wade Franklin Bear, Jr., Southport, N. C.
- James Gregory Burgess, Walhalla
- Carroll Richard Couch, Easley
- Guerry Ronald Cox, Greenville
- Steven Van Davis, Townville
- Simmons Penegar Doster, Gastonia, N. C.
- Thomas Edmund Dukes, Columbia
- Robert Semmes Gilmore, Jr., Spartanburg
- Stephen Murray Godfrey, Greenville
- Billy Joe Greene, Jr., Travelers Rest
- James Morgan Isom, Jr., Spartanburg
- *Mark Ryan Knebusch, Greenville
- Benjamin Rhett Leonard, Jr., Greenville
- Murph Roper Mahaffey, Jr., Duncan
- Russell Joseph Manzolillo, Jr., Serverna Park, Md.

**Economics**

- *Kim Patricia Holmquist, Greenville
- Judith Adell Parnell, Hilton Head Island
### Financial Management
- Samuel David Dalhouse, Spartanburg
- Daniel Howard Hoffer, Camden
- **Steven Gale Nilsson, DeQueen, Ark.
- Richard Allan Wheatley, Spartanburg

### Industrial Management
- Charles Marion Ballard, Jr., Lancaster
- Kathleen Elizabeth Hayward, Brussels, Belgium
- Carol Sue Yarborough, Fort Mill

### BACHELOR OF TEXTILE TECHNOLOGY
- Roy Lynn Bull, Abbeville
- Alan Kent Griggs, Hartsville
- David Dwain Wilson, Toccoa, Ga.

---

### COLLEGE OF LIBERAL ARTS
**HEADLEY MORRIS COX, Dean**

#### BACHELOR OF ARTS

**English**
- Julia Margarette Benton, Florence
- William Neil Dunlap, Anderson
- William Wade Facey, Central
- Jerry Edward Griggs, Cheraw
- Thomas Nicholas Hallman, Greenville
- Vera Della Singleton, Westminster
- David Clyburn Young, Cassatt

**History**
- Teresa Lynn Cartee, Anderson
- Janet Amanda Chipman, Clemson
- Warren Howard Devanny, Columbia

**Modern Languages**
- Elvira Quintero, Greenville

**Political Science**
- James Ryan Bradley, Lugoff
- Herbert Eugene Carson, Jr., Seneca
- Steven Newton Ellis, Clemson
- Richard Louis Morten, Florence

**Psychology**
- Laura Everette Brooks, Greenwood
- Carmen Cecilia deDiego deMaduro, Panama City, Panama
- Roger Allen McCrary, Greenville
- Mary Lynn McGuire, Greenville
- Phoebe Cook Winter, Greenville

**Sociology**
- Glenn Richard Bates, Clemson
- Betty Harrell Kellam, New Britain, Conn.
- Marianna Dixon McCaskill, Clemson
- Virginia Lee Mullenax, Central
- Margaret Eagles Paylor, Greenville
- Hara Neal Tarleton, Greenville
- Richard Gaston Weddington, Charlotte, N. C.
- Carrie Jean West, Clemson
- Cora Johnson Williams, Anderson
- Nancy Louise Wilson, Williamston
COLLEGE OF SCIENCES
HENRY ELLIOTT VOGEL, Dean

BACHELOR OF ARTS
Geology
Donna Whitfield Emory ----------------- Anderson

Mathematical Sciences
Jerry Cox Ausband ----------------- Shelby, N. C.

BACHELOR OF SCIENCE
Chemistry
Patricia Hudson Boyter -------------- Greenville Roy David Simmons ----- Harrington Park, N. J.
Walter Edward Martin -------------- Wheaton, Md.

Geology
Stephen Richard King -------------- Anderson Steven Alan Sinacore ---------- Babylon, N. Y.
Baylus Kenneth Morgan -------------- Seneca

Mathematical Sciences
Ransome Alexander Coleman ------- St. Matthews

Medical Technology
*Jeannie Adele McCollum ----------- Florence *Susan Anne Sibert ------------- Columbia

Microbiology
Robert Michael Gandy -------------- Chesterfield *Thomas Anderson Weir ---------- Newberry

Pre-Professional Studies
***Charles Tyner McElmurray ---------- Aiken

Zoology
John Gary Cooley ------------------- Pelzer Robert Lee Keasler, Jr. ----------- Clemson
Ann Wilburn Huneycutt -------------- Columbia Douglas Roy Rinaca -------------- Cross Keys

* With honor
**With high honor
***With highest honor
+Senior division honors
CLEMSON UNIVERSITY

Graduation Exercises

August 12, 1978

Clemson, South Carolina
GRADUATION
Saturday, August 12, 1978
11:00 a. m. Littlejohn Coliseum

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

Invocation
The Reverend Howard Backus
Assistant Rector, Holy Trinity Episcopal Church
Clemson, South Carolina

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

Benediction
Frank W. Breazeale, Organist
CANDIDATES FOR BACHELORS' DEGREES

COLLEGE OF AGRICULTURAL SCIENCES
LUTHER PERDEE ANDERSON, Dean

BACHELOR OF SCIENCE

Agricultural Mechanization and Business

David Derrick Bauknight ----------------- Irmo
David Bruce Baxley ---------------------- Aynor

Animal Industries

†William Harry Amspacher, Jr. ____ Pickens
Raymond Lee Fowler, Jr. _______ Bennettsville
James Monroe Neel IV ________ Aubrey, Ga.

Economic Biology

Osborn Earl Baker III __________ Columbia
Margaret Danette Begemann _______ Rock Hill

Plant Sciences

Alan David Arant _____________ Fort Motte
*Rosemary Ryder Brown ___________ Greenville
Carol Ann Carson _____________ Gaffney
Rena Bee Elliott _______________ Aiken

Pre-Professional Studies

*David Lawrence Brown, Jr. _______ Lake City
*David Michael Pinson _____________ Aiken

COLLEGE OF ARCHITECTURE
HARLAN EWART McCLURE, Dean

BACHELOR OF ARTS

Pre-Architecture

Theresa Joan Bowen ________ Ocean City, N. J.
*Ruth Elias _______________ New York, N. Y.

BACHELOR OF SCIENCE

Building Construction

Christian Thomas Fitzgerald ____ Cranford, N. J.

Pre-Architecture

*David John Allison ________ Norristown, Pa.
William Edward Burroughs ______ Elmira, N. Y.
John Lee Watkins ______________ Miami, Fla.
Claude Edward Watt, Jr. __________ Spartanburg

COLLEGE OF EDUCATION
HAROLD FOCHONE LANDRITH, Dean

BACHELOR OF ARTS

Early Childhood Education

Deborah Bishop Boyden ________ Arlington, Va.
Margaret Suzanne Burch __________ Chesterfield

Elementary Education

Kathy Owens Anthony ___________ Greenville
Tamara Ann Bashor _____________ Conway
Mary Ann Fant Browne ____________ Anderson
Brian Eugene Kier _____________ Haines City, Fla.
*Sandra Poole Kerns _____________ Greenville
Patricia Jean McLellan ____________ Darlington
**Ginger Beck Parker _____________ Ozark, Ala.
**Susan Taylor Reamer _____________ Greenville
*Carol Jo Werner _______________ Honea Path
Secondary Education

Randy Morgan Barnes          Chester
Rebecca Jane Bradham         Conway
*Sandra Periene Davis        Spartanburg

*Bonna Louise Holcombe       Easley
Jennie Rhodes Simmons       Greenwood
*Susan Gail Thomas           Seneca

BACHELOR OF SCIENCE

Agricultural Education
(Agricultural Education is jointly administered by the College of Agricultural Sciences and the College of Education.)
Henry Stewart Glenn, Jr.        Anderson

Industrial Education
Malcolm Fletcher Anderson, Jr.   Camden
Clarence Ralph Garrett, Jr.      Laurens

Science Teaching
*Carrie Lockaby Burgess        Travelers Rest
Richard Scott Clark            Chesterfield

BACHELOR OF SCIENCE

Agricultural Engineering
(Agricultural Engineering is jointly administered by the College of Agricultural Sciences and the College of Engineering.)
Guy Adair Tumblin, Jr.          Clinton

COLLEGE OF ENGINEERING

LYLE CHESTER WILCOX, Dean

BACHELOR OF SCIENCE

Agricultural Engineering

Chemical Engineering
William Steven Armstrong       Gray Court
Craig Dean Campbell            Orangeburg

Mutasim Abid Khayri           Ramallah, Israel
***McKinley Weaver Koth       North Augusta

Civil Engineering
John Burdine Cooper            Greenville
Donald Bruce Fore              Georgetown
Harry William Hughes           Argyle, Ga.

James Dudley Patrick, Jr.      St. George
Mavis Xavier Polk              Fairfax, Va.
Donald Dunbar Smith            New Ellenton

Electrical Engineering
James Edwin Broyles            Charleston
*Edward Albert Rapp            Seneca

Kambiz Shahnazi               Tehran, Iran
Richard Jay Silverman         Huntington, N. Y.
Frank Willis Stiff             Salem, Va.
Joseph Shepard Sublette, Jr.   Sumter

Engineering Analysis
Robert Adger Bowen III         Macon, Ga.
Samuel Worthy Gough, Jr.       Edisto Beach

Ralph Griffin Macdonald, Jr.   Sumter
Joe Marion Timmons, Jr.        Travelers Rest

Engineering Technology
Gary Brendan Christman         Sea-Cliif, N. Y.
Walter Marion Parnell, Jr.     Greenwood

Timothy Alan Pennekamp         Charleston
***Reamer David Todd, Jr.       Greenville

Mechanical Engineering
*Sue Williams Baldwin          Clemson
Ronald Vinson Brooks           Anderson
Donald Odell Carpenter         Columbia

Gary Monroe Moore              Anderson
Willard Hugh Odom              Salters
Lewis Philemon Pierce          Moncks Corner
### COLLEGE OF FOREST AND RECREATION RESOURCES
**BENTON HOLCOMB BOX, Dean**

#### BACHELOR OF SCIENCE
- **Forest Management**
  - Walter Carl Credle III, Matthews, N. C.
  - James Shadrach Grant, Jr., Andrews
  - *John Robert Helms, Jr., Orangeburg

- **Recreation and Park Administration**
  - Michael David Ausman, York, Pa.
  - Jane Crosby Bridges, Heath Springs
  - David Donald Brown, York, Pa.
  - *Allie Sue Edwards, Griffin, Ga.
  - Susan Elaine Epting, Columbia
  - Leo Dale Gunter, Columbia
  - **Dona Lynn Harris, Atlanta, Ga.
  - Leslie Kyle Haskett, Ocean City, N. J.
  - Paul Michael Havice, Pickens
  - Karen Hoefler Heaton, Seneca
  - James Gary Hood, Rock Hill
  - William Beatty Jackson, Greenville
  - *Robert Mark Jordan, Summerville
  - Kathleen Joyce Kuna, Columbia

#### COLLEGE OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE
**WALLACE DABNEY TREVILLIAN, Dean**

#### BACHELOR OF ARTS
- **Economics**
  - Edward George Schroff, Milltown, N. J.

#### BACHELOR OF SCIENCE
- **Accounting**
  - *Gayle Borden Barthelman, Canton, Ohio
  - *Claude Eldon Harris, Jr., Anderson
  - Laura Elizabeth Haynes, Anderson
  - Malcolm Everett Heaton, Anderson
  - Donald Wilton Saverance, Lamar

- **Administrative Management**
  - *Sheila Maxine Armstrong, Georgetown
  - **Wade Franklin Beard, Jr., Southport, N. C.
  - James Gregory Burgess, Walhalla
  - Carroll Richard Couch, Easley
  - Guerry Ronald Cox, Greenville
  - Steven Van Davis, Townville
  - Simmons Penegar Doster, Gastonia, N. C.
  - Thomas Edmund Dukes, Columbia
  - Robert Semmes Gilmore, Jr., Spartanburg
  - Stephen Murray Godfrey, Greenville
  - Billy Joe Greene, Jr., Travelers Rest
  - James Morgan Isom, Jr., Spartanburg
  - *Mark Ryan Knebusch, Greenville
  - Benjamin Rhett Leonard, Jr., Summerville
  - Murph Roper Mahaffey, Jr., Duncan
  - Russell Joseph Manzoillo, Jr., Serverna Park, Md.

- **Economics**
  - *Kim Patricia Holmquist, Greenville
  - Judith Adell Parnell, Hilton Head Island

* indicates a graduating student.
Financial Management
Samuel David Dalhouse Spartanburg
Daniel Howard Hoffer Camden
Keith Stephen Leonard Valley Forge, Pa.

†*Steven Gale Nilsson DeQueen, Ark.
Richard Allan Wheatley Spartanburg

Industrial Management
Charles Marion Ballard, Jr. Lancaster
*Kathleen Elizabeth Hayward Brussels, Belgium

Carol Sue Yarborough Fort Mill

BACHELOR OF TEXTILE TECHNOLOGY
Roy Lynn Bull Abbeville
Alan Kent Griggs Hartsville

David Dwain Wilson Toccoa, Ga.

COLLEGE OF LIBERAL ARTS
HEADLEY MORRIS COX, Dean

BACHELOR OF ARTS

English
Julia Margarette Benton Florence
***William Neil Dunlap Anderson
William Wade Facey Central
*Jerry Edward Griggs Cheraw

Thomas Nicholas Hallman Greenville
**Vera Della Singleton Westminster
David Clyburn Young Cassatt

History
Teresa Lynn Cartee Anderson
Janet Amanda Chipman Clemson

Warren Howard Devanny Columbia

Modern Languages
***Elvira Quintero Greenville

Political Science
James Ryan Bradley Lugoff
Herbert Eugene Carson, Jr. Seneca

Steven Newton Ellis Clemson
Richard Louis Morten Florence

Psychology
Laura Everette Brooks Greenwood
* Carmen Cecilia deDiego deMaduro Panama City, Panama

Roger Allen McCravy Greenville
Mary Lynn McGuire Greenville
**Phoebe Cook Winter Greenville

Sociology
Glenn Richard Bates Clemson
*Betty Harrill Kellam New Britain, Conn.
Marianna Dixon McCaskill Clemson
Virginia Lee Mullinax Central
Margaret Eagles Paylor Greenville

*Hara Neal Tarleton Greenville
Richard Gaston Weddington Charlotte, N. C.
*Carrie Jean West Clemson
Cora Johnson Williams Anderson
Nancy Louise Wilson Williamston
COLLEGE OF SCIENCES
HENRY ELLIOTT VOGEL, Dean

BACHELOR OF ARTS
Geology
Donna Whitfield Emory  Anderson

Mathematical Sciences
Jerry Cox Ausband  Shelby, N. C.

BACHELOR OF SCIENCE
Chemistry
Patricia Hudson Boyter  Greenville
Walter Edward Martin  Wheaton, Md.

Geology
Stephen Richard King  Anderson
Baylus Kenneth Morgan  Seneca

Mathematical Sciences
Ransome Alexander Coleman  St. Matthews

Medical Technology
*Jeannie Adele McCollum  Florence
*Susan Anne Sibert  Columbia

Microbiology
Robert Michael Gandy  Chesterfield
*Thomas Anderson Weir  Newberry

Pre-Professional Studies
***Charles Tyner McElmurray  Aiken

Zoology
John Gary Cooley  Pelzer
Ann Wilburn Huneycutt  Columbia

Robert Lee Keasler, Jr.  Clemson
Douglas Roy Rinaca  Cross Keys

* With honor
**With high honor
***With highest honor
†Senior division honors
CANDIDATES FOR EDUCATION SPECIALIST
AND MASTERS’ DEGREES

ARNOLD EDWARD SCHWARTZ, Dean, Graduate School

COLLEGE OF AGRICULTURAL SCIENCES

MASTER OF AGRICULTURE

Patrick Erwin Ballington -------------- Gilbert
Thomas Clay Chappell -------------- Leesville
Samuel Augustus Cheatham _______ Orangeburg
Daniel Michael Howard __________ Greenville
Susan Jeanette Johnson ____________ Mullins

Sahr Adimoenje Josiah-Faeduwor _____________________ Sierra Leone, W. Africa
Victor Gregg Marturano ___________ Camden
Frank Maurice Terlizzi _____________ Columbia

MASTER OF NUTRITIONAL SCIENCE

Sandra Kay Browder ___________ Easley
Thomas Michael Jones ___________ Lockhart

MASTER OF SCIENCE

Agricultural Economics
David Claire Morris ___________ Chase City, Va.

Animal and Food Industries
Edward Tai-Sen Chow ___________ Taipei, Taiwan

Animal Science
John Wesley Comerford ___________ York
Joe Edwin Gotti ___________ Tescott, Kansas

Entomology
David Malcolm Hunt ___________ Cranbury, N. J.

Horticulture
William Paul Clark ___________ Flowery Branch, Ga.
Donald Alan Ferguson ___________ Seneca

Nutrition
James Michael Gubas ___________ Sapulpa, Okla.
Susan Van Dusen Malcolm ___________ Clemson

Plant Pathology
Bradford Beverly Reddick _______ Portsmouth, Va.

Wildlife Biology
Jimmy James Sevic ___________ Seneca
Stephen Ellis Summer ___________ Columbia

Calvin Milton Snipes ___________ Salters
Susan Jane Noyes ___________ Amherst, Mass.

Stephen Cothran Myers ___________ Clemson
Darrel Ervin Menking ___________ Marion, Texas

Edward Tai-Sen Chow ___________ Taipei, Taiwan

Carl William Otto ___________ Wicomico Creek, Md.

Joe Edwin Gotti ___________ Tescott, Kansas

William Paul Clark ___________ Flowery Branch, Ga.

Horticulture
Donald Alan Ferguson ___________ Seneca

Nutrition
James Michael Gubas ___________ Sapulpa, Okla.
Susan Van Dusen Malcolm ___________ Clemson

Plant Pathology
Bradford Beverly Reddick _______ Portsmouth, Va.

Wildlife Biology
Jimmy James Sevic ___________ Seneca
Stephen Ellis Summer ___________ Columbia

Calvin Milton Snipes ___________ Salters

Edward Tai-Sen Chow ___________ Taipei, Taiwan

Carl William Otto ___________ Wicomico Creek, Md.
<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wayne Scott Crosby</td>
<td>Aiken</td>
</tr>
<tr>
<td>April Petra Mazzucco</td>
<td>Freehold, N. J.</td>
</tr>
<tr>
<td>William Edward McNell, Jr.</td>
<td>Inman</td>
</tr>
<tr>
<td>Stevie Aaron Wilson</td>
<td>Blair</td>
</tr>
<tr>
<td>Mary Lou Swartz Hightower</td>
<td>Spartanburg</td>
</tr>
<tr>
<td>Larry Eugene Hooks</td>
<td>Central</td>
</tr>
<tr>
<td>Larry Franklin Lecroy</td>
<td>Walhalla</td>
</tr>
<tr>
<td>Carroll Murray Long</td>
<td>Mauldin</td>
</tr>
<tr>
<td>Charles Alexander Martin</td>
<td>Clemson</td>
</tr>
<tr>
<td>Michael Omer Nels</td>
<td>Clemson</td>
</tr>
<tr>
<td>Charles Robert O’Rear</td>
<td>Laurens</td>
</tr>
<tr>
<td>Maudlianna Wigington Pruitt</td>
<td>Anderson</td>
</tr>
<tr>
<td>Annie Carol Robb</td>
<td>Gaffney</td>
</tr>
<tr>
<td>Kenneth Robert Rushlow</td>
<td>Atlanta, Ga.</td>
</tr>
<tr>
<td>Philip James Temple</td>
<td>Greenville</td>
</tr>
</tbody>
</table>

**MASTER OF EDUCATION**

**Administration and Supervision**

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lynn Pridgeon Ballard</td>
<td>Greenville</td>
</tr>
<tr>
<td>Frances Southern Banks</td>
<td>Honora Path</td>
</tr>
<tr>
<td>Mary Harris Barnette</td>
<td>Seneca</td>
</tr>
<tr>
<td>Gloria Duncan Barnhill</td>
<td>Shelby, N. C.</td>
</tr>
<tr>
<td>Rosemary Heath Bomar</td>
<td>Greer</td>
</tr>
<tr>
<td>Johnnie Mae Booker</td>
<td>Greenwood</td>
</tr>
<tr>
<td>Edith Howard Bostic</td>
<td>Greenville</td>
</tr>
<tr>
<td>Lora Harrison Bridges</td>
<td>Greenville</td>
</tr>
<tr>
<td>Patricia McClain Childress</td>
<td>Anderson</td>
</tr>
<tr>
<td>Barbara Phillips Clark</td>
<td>Greenwood</td>
</tr>
<tr>
<td>Yvonne Bedenbaugh Cockrell</td>
<td>Taylors</td>
</tr>
<tr>
<td>Mary Anne Sutton Compton</td>
<td>Fort Mill</td>
</tr>
<tr>
<td>Carmen Hethcote Couch</td>
<td>Jacksonville, Fla.</td>
</tr>
<tr>
<td>Diane Tollefson Crouch</td>
<td>Seneca</td>
</tr>
<tr>
<td>Jane Clarke Davenport</td>
<td>Greenville</td>
</tr>
<tr>
<td>Cathy Denise Denny</td>
<td>Greenville</td>
</tr>
<tr>
<td>Virginia Smith Dumont</td>
<td>Greenwood</td>
</tr>
<tr>
<td>Marian Angela Estes</td>
<td>Belton</td>
</tr>
<tr>
<td>Evie Boswell Evans</td>
<td>Saluda</td>
</tr>
<tr>
<td>Rita Joyce Fink</td>
<td>Hartsville</td>
</tr>
<tr>
<td>Gwendolyn Danby Goodwin</td>
<td>Greenville</td>
</tr>
<tr>
<td>Lisa Trammell Graham</td>
<td>Clemson</td>
</tr>
<tr>
<td>Sherrill Knobel Hall</td>
<td>Anderson</td>
</tr>
<tr>
<td>Rhonda Patterson Hawkins</td>
<td>Belton</td>
</tr>
<tr>
<td>Ann Michels Hill</td>
<td>Hickory Tavern</td>
</tr>
<tr>
<td>Elizabeth Isaac Holcombe</td>
<td>Easley</td>
</tr>
<tr>
<td>Janice Vaughn Holland</td>
<td>Laurens</td>
</tr>
<tr>
<td>Vicki Lee Hyder</td>
<td>Seneca</td>
</tr>
<tr>
<td>Suzanne Watkins Jaskin</td>
<td>Greenville</td>
</tr>
<tr>
<td>Bettie Hale Jones</td>
<td>Birmingham, Ala.</td>
</tr>
<tr>
<td>Yvonne Creamer Jones</td>
<td>Pelzer</td>
</tr>
<tr>
<td>Mary Sadda Joseph</td>
<td>Greeleyville</td>
</tr>
<tr>
<td>Lynn Pepper Lanford</td>
<td>Walhalla</td>
</tr>
<tr>
<td>Dorothy Ann Mast</td>
<td>Centerport, Pa.</td>
</tr>
<tr>
<td>Kathryn Lipscomb McEarchern</td>
<td>Pickens</td>
</tr>
<tr>
<td>Sharon Frisbee McManamay</td>
<td>Tamasesee</td>
</tr>
<tr>
<td>Karen Griffin Mill</td>
<td>Greenville</td>
</tr>
<tr>
<td>Julia Gossett Mize</td>
<td>Williamston</td>
</tr>
<tr>
<td>Georgia Frances Montgomery</td>
<td>Greenville</td>
</tr>
<tr>
<td>Dianno Crawford Mostertz</td>
<td>Seneca</td>
</tr>
<tr>
<td>Mary Schwob Mulligan</td>
<td>Central</td>
</tr>
<tr>
<td>Marian Sowell Nolde</td>
<td>Lancaster</td>
</tr>
<tr>
<td>Vicki Lynn Kirkland Ouzts</td>
<td>Greenwood</td>
</tr>
<tr>
<td>Vicky Harmon Parnell</td>
<td>Greenville</td>
</tr>
<tr>
<td>Edith Louisa Philpot</td>
<td>Greenville</td>
</tr>
<tr>
<td>Joseph Ingram Pitts</td>
<td>Westminster</td>
</tr>
<tr>
<td>Toni Jay Furry Ponder</td>
<td>Dacusville</td>
</tr>
<tr>
<td>Donna Julian Poston</td>
<td>Seneca</td>
</tr>
<tr>
<td>Marvin Lewis Putnam</td>
<td>Statesville, N. C.</td>
</tr>
<tr>
<td>Frances Elaine Raftakis</td>
<td>Anderson</td>
</tr>
<tr>
<td>Betty Weaver Reeves</td>
<td>Greenville</td>
</tr>
<tr>
<td>Karen Edith Schirmer</td>
<td>Greenville</td>
</tr>
<tr>
<td>Patricia Jeanette Segars</td>
<td>Laurens</td>
</tr>
<tr>
<td>Elizabeth Grant Simmons</td>
<td>Marietta</td>
</tr>
<tr>
<td>Martha Corkill Skala</td>
<td>Greenville</td>
</tr>
<tr>
<td>Evelyn Ellis Smith</td>
<td>Greenville</td>
</tr>
<tr>
<td>Patricia Haynie Spencer</td>
<td>Greenville</td>
</tr>
<tr>
<td>Mary Elizabeth Harper Stroman</td>
<td>Greenwood</td>
</tr>
<tr>
<td>Batsie Freeman Styles</td>
<td>Greenville</td>
</tr>
<tr>
<td>Anne Arant Sullivan</td>
<td>Anderson</td>
</tr>
<tr>
<td>Kathy Stallinga Thomson</td>
<td>Belton</td>
</tr>
<tr>
<td>Cheryl Youmans Topping</td>
<td>Laurens</td>
</tr>
<tr>
<td>Martha Elizabeth Tribble</td>
<td>Laurens</td>
</tr>
<tr>
<td>Charlotte Hunt Tucker</td>
<td>Piedmont</td>
</tr>
<tr>
<td>Margaret Ulidrick Turner</td>
<td>Chesnee</td>
</tr>
<tr>
<td>Rebecca Strahley Vinson</td>
<td>Greenville</td>
</tr>
<tr>
<td>Debora Kirkland Wallace</td>
<td>North Charleston</td>
</tr>
<tr>
<td>Linda Willis Wallace</td>
<td>Clinton</td>
</tr>
<tr>
<td>Sally Thomas Wallace</td>
<td>Greenville</td>
</tr>
<tr>
<td>Deborah Vernon White</td>
<td>Travelers Rest</td>
</tr>
<tr>
<td>Esther Channell Williamson</td>
<td>Mauldin</td>
</tr>
<tr>
<td>Rhonda Alycia Willis</td>
<td>Iva</td>
</tr>
<tr>
<td>Monica Vyenele Wineoff</td>
<td>Cheraw</td>
</tr>
<tr>
<td>Linda Garrett Young</td>
<td>Mauldin</td>
</tr>
</tbody>
</table>
Personnel Services

Gail Davis Auld Greenville
Linda Lothery Baird Greenville
Harriet Elizabeth Bandy McCormick
Susan Miller Bellinger Greenville
A. Doris Weaver Coleman Anderson
Mary Ann Barnett Dula Ninety Six
Linda Craig Durham Spartanburg
Lynne Day Fuller Anderson
Betts Hunter Getwood Aiken
George Charles Getty Silver Spring, Md.
Jane Knight Hopkins Simpsonville
Janette Fuhrman Jackson Easley
Annie Cates Johnson Greer
Robert Frank Kolb II Liberty
Georgia Ann Landon Plantation, Fla.

Kenneth Lane Lindsey Townville
Christopher E. Longwill Greenville
Marion Roberts May Taylors
Dianne Morgera McLawhorn Greenville
Vicki Farris Miebauer Clemson
Edward Gray Payne Charlotte, N. C.
Kathy Dianne Pollard Greenville
Jane Faith Price Clemson
Barbara Drummond Richardson Greenville
Mary Joyce Robinson Anderson
Walter Edward Sayers, Jr. Greenville
Patricia Kearney Schwarz Clemson
Martha Mann Suman Clemson
Deborah Duncan Towe Six Mile
Cynthia Staples Wilson Greenville

Reading

Sandra Lynn Cassell Pickens
Phyllis Balentine Cubertson Ware Shoals
Dorothy Baldwin Edwards Clemson
Mary Frances Watkins Gambrell Greenwood
Alice Page Henderson Simpsonville
Donna Mills Henderson Simpsonville
Maudo Wilson Latham Abbeville
Brenda Tincher Ledford Fayetteville, N. C.
Lynn Carol Markovich St. Helena Island

James Edward Matthews, Jr. Clemson
Ann Martin Miller Cornelia, Ga.
Alice Barbaree Moon Travelers Rest
Dorothy Lynn Hammond Owen Williamston
Judith Parrish Price Pelzer
Kathy Robbins Stallings High Point, N. C.
Elizabeth Wheeler Staples Greenwood
Mary Elizabeth Thurston Easley
Sandra Weathers Wellington Greenville

Secondary Education

Deborah Charping Alexander Anderson
Alice Pearl Brewerington Sanford, N. C.
Phyllis Hammonds Carpenter Lincolnville, N. C.
Robert Stephen Crappe Greenville
Kathy Carter Deese Mauldin
Mark Joseph DiBois Toccoa, Ga.
Emma Duke Doughty Anderson
Rebecca Gayle Barker Edwards Anderson
Thomas Eugene Edwards, Jr. Greenville
Linda Lee Frasher Greenville

Dana Volkhardt Ingalis Fountain Inn
Cliafa Huff LeGrand Greenville
Annette Roe Lyons Anderson
Keith Allen McCaskill Bethune
Sandra Knox Mitchell Seneca
John Alexander Mitsopoulos Bound Brook, N. J.
Botty Gleaton Moore Greenville
Beverly Bailey Nabors Pelzer
Roger Ezra Newton Andrews
Susan Adair Okey Rock Hill

MASTER OF INDUSTRIAL EDUCATION

Stephen Robert Collins Moore
Angela Michael Craig Greenville
James Robert Henderson, Jr. Simpsonville
Jerry Gale Lamme Atlanta, Ga.

Barry S. McCaskill Columbia
David Jefferson Rogers Columbia
Charlie Wilson Summerville

COLLEGE OF ENGINEERING

MASTER OF ENGINEERING

Electrical Engineering
Calvin Beecher Bradley Clemson

Environmental Systems Engineering
David Craig Tillman Lake Pine, N. J.

MASTER OF SCIENCE

Agricultural Engineering
(Agricultural Engineering is jointly administered by the College of Agricultural Sciences and the College of Engineering.)
Ronald Eugene Yoder Richfield, Pa.

Bioengineering
James Blake Bigelow Summerville
Steve Gus Hondros Florence
Ceramic Engineering
Temple Onyekpuru-ibeya John Ananaba Alvin Lamar Campbell Anderson
---------- ------------- Aba, Nigeria

Electrical Engineering
Joseph Edward Guy Greenville Leonard Darrell Reynolds Darlington
---------- ---------------

Environmental Systems Engineering
Karen Lynn McDowell Chattanooga, Tenn. David Gene Page Spartanburg
------ ---------------

Mechanical Engineering
Ralston Horace Moore Spanish Town, Jamaica, W. I.
---------- ---------------

Systems Engineering
Emil William Heikkila Sumter Wade Harrison Shaw, Jr. Simpsonville
---------- ------------- 
Barry Joseph Hudson Seneca Casper Eldredge Wiggins, Jr. Greenwood
---------- ------------- 

COLLEGE OF FOREST AND RECREATION RESOURCES
MASTER OF RECREATION AND PARK ADMINISTRATION
Daniel Michael Hood Charleston Donald Michael Murphy Merrick, N. Y.
---------- --------------- 
John Daly McEachern Greenville Renee Frances Murphy Merrick, N. Y.
---------- --------------- 
Terry Leon Mullis Greenville Marcia Rae Wallenius Glendale, Cal.
---------- ---------------

MASTER OF SCIENCE
Forestry
Stephen Kent Nodine Clemson Thomas James Tworkoski Bayonne, N. J.
---------- ---------------

COLLEGE OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE
MASTER OF ARTS
Economics
Imre Karafiath Huntington, N. Y. Wendell Gene Wilson Mill Spring, N. C.
---------- ---------------

MASTER OF SCIENCE
Management
Clyde Rashleigh Browne Georgetown, Guyana Richard Early Reeves Georgetown
 .......... --------------- 
Mehmet Mustafa East Kadaster Istanbul, Turkey Daniel Howard Sides Abbeville
 .......... ---------------

Textile Chemistry
Denny Emile Black Charleston
---------- ---------------

COLLEGE OF LIBERAL ARTS
MASTER OF ARTS
English
Sue Lile Inman Greenville Daniel Greene Porter Seneca
---------- --------------- 
Jane Bowens Martin Clemson Rose-Marie Eltzroth Williams Abbeville
---------- --------------- 
Rachel Andre Peters Columbia 

History
Hilary Susan Nelson Crawley, Sussex, U. K.
COLLEGE OF NURSING

MASTER OF SCIENCE
Nursing

Kathleen Davis Hatley Columbia Arlene Bauknight Privette Central

COLLEGE OF SCIENCES

MASTER OF SCIENCE
Mathematical Sciences

Diane Alberga Round Top, N. Y. Steven Todd Kramm Belleville, Pa.
Ann Link Hart Williamsburg, Va. William Harrington Richardson, Jr., Seneca
Fidelis M. Ikem Onicha-Ugbo, Bendel, Nigeria

Microbiology

Alexander Hyman Cohen Darlington
Julius Gilbert Freeman, Jr. Columbia
Margie Kathleen Gaffney Joanna

Physics

Kai-Ning Chang Taipei, Taiwan

Zoology

Jimmy Neal Williams Lexington, Tenn.
CANDIDATES FOR DOCTORS' DEGREES
ARNOLD EDWARD SCHWARTZ, Dean, Graduate School

COLLEGE OF AGRICULTURAL SCIENCES

DOCTOR OF PHILOSOPHY

Applied Economics

Everette Brent Sigmon .......................................................... Pendleton
B.S., North Carolina State; M.S., Clemson University
Dissertation: Migration Patterns and Revealed Values of Environmental Quality: An Empirical Extension of the Tiebout Hypothesis

Entomology

Joseph Harry Patti ............................................................. Hinesville, Ga.
B.S., Georgia Southern; M.S., Clemson University

Leroy Morris Sutton ........................................................... Clemson
B.S., Clemson University
Dissertation: Immunological and Pathological Studies with the Fungal Pathogen Nomuraea Rileyi in Noctuid Hosts

Nutrition

Ashby Burgess Bodine II ..................................................... Seneca
B.A., M.S., Clemson University
Dissertation: Investigations of In Vitro Liver Metabolism of AFB1 by the Young Dairy Calf

Ching Hsiong Chang ............................................................. Erh-Shui, Taiwan
M.S., Kansas State University
Dissertation: Effects of Exogenous Hormones and Lactation on Postpartum Anestrus and Metabolic Status in Young Beef Cows

Plant Physiology

William Michael Gray ......................................................... Pensacola, Fla.
B.S., Bob Jones University; M.S., Clemson University
Dissertation: Microbial Interactions in Defined Continuous Culture Systems Effecting Anaerobic Cellulose Degradation

COLLEGE OF ENGINEERING

DOCTOR OF PHILOSOPHY

Engineering

Walter Timmons Cardwell, Jr. .................................................. Anderson
B.S., Clemson University
Dissertation: A Modified Junction Field — Effect Transistor (Field of Specialization: Electrical Engineering)

John Anton Collier ............................................................. Damascus, Ga.
B.A.E., Georgia Institute of Technology; M.S., University of Georgia
Dissertation: A Fluorescent Photography Technique for Evaluating the Incorporation of Soil-Applied Chemicals (Field of Specialization: Agricultural Engineering)

Richard Albert Schmalz, Jr. .................................................. Sudbury, Mass.
B.S., M.S., Clemson University
Dissertation: Numerical Solution of the Transport Equation in an Estuary Utilizing a Link-Node Discretization (Field of Specialization: Systems Engineering)
COLLEGE OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE

DOCTOR OF PHILOSOPHY
Management Science

James Stith Hawkes III
B.S., University of Richmond; M.B.A., New York University
Dissertation: A Discussion of Ridge Regression Analysis and Its Application

COLLEGE OF SCIENCES

DOCTOR OF PHILOSOPHY
Chemistry

Donald Andrew Castillo, Jr.
B.S., Belmont Abbey College; M.A., Winthrop College; M.S., University of South Carolina
Dissertation: An Investigation of Gloxyal Bis(2-Hydroxy-1-Naphthanil-4-Sulfonic Acid) as a Colorimetric Reagent for Calcium in an Aqueous Medium

Ping-Sun Ralph Cheung
B.S., North Carolina State University; M.S., Clemson University
Dissertation: Photodegradation and Energy Transfer in Poly (Ethylene Terephthalate-Co-2,6-Naphthalene-dicarboxylate)

Jung-chen Chou Johnson
B.S., Tunghai University
Dissertation: Thermal Diffusion Theory for Liquid Mixtures with Association Reactions. Temperature Dependence of the Thermal Diffusion Factor for Methanol-Benzene Mixtures

Mathematical Sciences

William George Frye
B.S., Valdosta State College; M.S., Clemson University
Dissertation: On Path-Factorization of Some Digraphs

Physics

William Joseph Mealing, Jr.
B.S., Augusta College
Dissertation: Ionic Defects — Their Transport and Interaction in AgBr, RbN\textsubscript{3} and KN\textsubscript{3}

Barney Edsel Taylor
B.S., East Tennessee State University
Dissertation: Electrical Transport Studies of NH\textsubscript{4}Cl and NH\textsubscript{4}Br

Beverley Ann Price Taylor
B.S., East Tennessee State University
Dissertation: Solitary Waves in Relativistically Invariant Field Theories and Their Application to the Electromagnetic Interactions of Hadrons
CLEMSN ALMA MATER
A. C. Corcoran, '19

Where the Blue Ridge yawns it 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 Tigers 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.
CANDIDATES FOR EDUCATION SPECIALIST AND MASTERS’ DEGREES
ARNOLD EDWARD SCHWARTZ, Dean, Graduate School

COLLEGE OF AGRICULTURAL SCIENCES

MASTER OF AGRICULTURE
Patrick Erwin Ballington  Gilbert
Thomas Clay Chappell  Leesville
Samuel Augustus Cheatham  Orangeburg
Daniel Michael Howard  Greenville
Susan Jeanette Johnson  Mullins
Sahr Adimoenje Josiah-Faeduwor  Sierra Leone, W. Africa
Victor Gregg Marturano  Camden
Frank Maurice Terlizzi  Columbia

MASTER OF NUTRITIONAL SCIENCE
Sandra Kay Browder  Easley
Thomas Michael Jones  Lockhart

MASTER OF SCIENCE
Agricultural Economics
David Claire Morris  Chase City, Va.

Animal and Food Industries
Edward Tai-Sen Chow  Taipei, Taiwan

Animal Science
John Wesley Comerford  York
Joe Edwin Gotti  Tescott, Kansas
Carl William Otto  Wicomico Creek, Md.

Entomology
David Malcolm Hunt  Cranbury, N. J.
Darrel Ervin Menking  Marion, Texas

Horticulture
William Paul Clark  Flowery Branch, Ga.
Donald Alan Ferguson  Seneca
Stephen Cothran Myers  Clemson
Susan Jane Noyes  Amherst, Mass.

Nutrition
James Michael Gubas  Sapulpa, Okla.
Susan Van Dusen Malcolm  Clemson
Calvin Milton Snipes  Salters

Plant Pathology
Bradford Beverly Reddick  Portsmouth, Va.

Wildlife Biology
Jimmy James Sevic  Seneca
Stephen Ellis Summer  Columbia
Jack Moorer Whetstone  St. Matthews
### COLLEGE OF EDUCATION

**EDUCATION SPECIALIST**

**Robert Marina, Jr.**

**Educational Administration**

**Anderson**

### MASTER OF AGRICULTURAL EDUCATION

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

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wayne Scott Crosby</td>
<td>Aiken</td>
</tr>
<tr>
<td>April Petra Mazzucco</td>
<td>Freehold, N. J.</td>
</tr>
<tr>
<td>William Edward McNeill, Jr.</td>
<td>Inman</td>
</tr>
<tr>
<td>Stevie Aaron Wilson</td>
<td>Blair</td>
</tr>
</tbody>
</table>

### MASTER OF EDUCATION

Administration and Supervision

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carroll Dale Adair</td>
<td>Greenwood</td>
</tr>
<tr>
<td>Mary Lou Swartz Hightower</td>
<td>Spartanburg</td>
</tr>
<tr>
<td>Cynthia Caudle Alvarez</td>
<td>McCormick</td>
</tr>
<tr>
<td>Larry Eugene Hooks</td>
<td>Central</td>
</tr>
<tr>
<td>Henry Thurston Bagnall, Jr.</td>
<td>Sumter</td>
</tr>
<tr>
<td>Larry Franklin Lecroy</td>
<td>Walhalla</td>
</tr>
<tr>
<td>Sarah Katheryn Bates</td>
<td>Columbia</td>
</tr>
<tr>
<td>Carroll Murray Long</td>
<td>Mauldin</td>
</tr>
<tr>
<td>Horace Dalton Chastain</td>
<td>Pendleton</td>
</tr>
<tr>
<td>Charles Alexander Martin</td>
<td>Clemson</td>
</tr>
<tr>
<td>Larry Victor Clark</td>
<td>Starr</td>
</tr>
<tr>
<td>Micahel Omer Nelms</td>
<td>Clemson</td>
</tr>
<tr>
<td>Jean McCrickard Creswell</td>
<td>Greenwood</td>
</tr>
<tr>
<td>Charles Robert O'Rear</td>
<td>Laurens</td>
</tr>
<tr>
<td>Jessie Ray Curtis</td>
<td>Vevay, Ind.</td>
</tr>
<tr>
<td>Maudianna Wigington Pruitt</td>
<td>Anderson</td>
</tr>
<tr>
<td>Carol Dyar Dillard</td>
<td>Seneca</td>
</tr>
<tr>
<td>Edith Howard Bostic</td>
<td>Greenville</td>
</tr>
<tr>
<td>Kenneth Robert Rushlow</td>
<td>Atlanta, Ga.</td>
</tr>
<tr>
<td>Maxie Wright Duke</td>
<td>Walhalla</td>
</tr>
<tr>
<td>Carrie Carol Robbs</td>
<td>Gaffney</td>
</tr>
<tr>
<td>Jeannette Lee Dukes</td>
<td>Easley</td>
</tr>
<tr>
<td>Jeffrey Kenneth Willen</td>
<td>Easley</td>
</tr>
</tbody>
</table>

### Elementary Education

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lynn Pridgeon Ballard</td>
<td>Greenville</td>
</tr>
<tr>
<td>Julia Gossott Mize</td>
<td>Williamston</td>
</tr>
<tr>
<td>Frances Southern Banks</td>
<td>Honea Path</td>
</tr>
<tr>
<td>Georgia Frances Montgomery</td>
<td>Greenville</td>
</tr>
<tr>
<td>Mary Harris Barnette</td>
<td>Seneca</td>
</tr>
<tr>
<td>Dianne Crawford Mostertz</td>
<td>Seneca</td>
</tr>
<tr>
<td>Gloria Duncan Bornhill</td>
<td>Shelby, N. C.</td>
</tr>
<tr>
<td>Mary Schwob Mulligan</td>
<td>Central</td>
</tr>
<tr>
<td>Rosemary Heath Bomar</td>
<td>Greer</td>
</tr>
<tr>
<td>Marian Sowell Nodine</td>
<td>Lancaster</td>
</tr>
<tr>
<td>Johnnie Mae Booker</td>
<td>Greenwood</td>
</tr>
<tr>
<td>Vickie Lynn Kirkland Ouzts</td>
<td>Greenwood</td>
</tr>
<tr>
<td>Edith Howard Bogart</td>
<td>Greenville</td>
</tr>
<tr>
<td>Vicky Harmon Parnell</td>
<td>Greenville</td>
</tr>
<tr>
<td>Lora Harrison Bridges</td>
<td>Greenville</td>
</tr>
<tr>
<td>Edith Louisa Philipot</td>
<td>Greenville</td>
</tr>
<tr>
<td>Patricia McClain Childress</td>
<td>Anderson</td>
</tr>
<tr>
<td>Joseph Ingram Pitts</td>
<td>Westminster</td>
</tr>
<tr>
<td>Barbara Phillips Clark</td>
<td>Greenville</td>
</tr>
<tr>
<td>Toni Jean Farry Ponder</td>
<td>Dacusville</td>
</tr>
<tr>
<td>Yvonne Bedenbaugh Cockerill</td>
<td>Taylors</td>
</tr>
<tr>
<td>Govorn Lewis Putnam</td>
<td>Statesville, N. C.</td>
</tr>
<tr>
<td>Mary Anne Sutton Compton</td>
<td>Fort Mill</td>
</tr>
<tr>
<td>Frances Elaine Raftaki</td>
<td>Anderson</td>
</tr>
<tr>
<td>Carmen Hethcote Couch</td>
<td>Jacksonville, Fla.</td>
</tr>
<tr>
<td>Betty Weaver Reeves</td>
<td>Greenville</td>
</tr>
<tr>
<td>Diane Tollefson Crouch</td>
<td>Seneca</td>
</tr>
<tr>
<td>Karen Edith Schirmer</td>
<td>Greenville</td>
</tr>
<tr>
<td>Jane Clarke Davenport</td>
<td>Greenville</td>
</tr>
<tr>
<td>Patricia Jeanette Segars</td>
<td>Laurens</td>
</tr>
<tr>
<td>Cathy Denise Denny</td>
<td>Greenville</td>
</tr>
<tr>
<td>Elizabeth Grant Simmons</td>
<td>Marlotta</td>
</tr>
<tr>
<td>Virginia Whithum Dumont</td>
<td>Greenwood</td>
</tr>
<tr>
<td>Martha Corkill Skala</td>
<td>Greenville</td>
</tr>
<tr>
<td>Marian Angela Estes</td>
<td>Belton</td>
</tr>
<tr>
<td>Evelin Ellis Smith</td>
<td>Greenville</td>
</tr>
<tr>
<td>Evie Boswell Evans</td>
<td>Saluda</td>
</tr>
<tr>
<td>Patricia Haynie Spencer</td>
<td>Greenville</td>
</tr>
<tr>
<td>Ria Joyce Fink</td>
<td>Hartsville</td>
</tr>
<tr>
<td>Mary Elizabeth Harper Stroman</td>
<td>Greenwood</td>
</tr>
<tr>
<td>Wendolyn Danby Goodwin</td>
<td>Greenville</td>
</tr>
<tr>
<td>Mary Elizabeth Harper Stroman</td>
<td>Greenwood</td>
</tr>
<tr>
<td>Lisa Trammell Graham</td>
<td>Clemson</td>
</tr>
<tr>
<td>Batsie Freeman Styles</td>
<td>Greenville</td>
</tr>
<tr>
<td>Sherrill Knobel Hall</td>
<td>Anderson</td>
</tr>
<tr>
<td>Karen Edith Schirmer</td>
<td>Greenville</td>
</tr>
<tr>
<td>Rhonda Patterson Hawkins</td>
<td>Belton</td>
</tr>
<tr>
<td>Kathy Stallings Thomson</td>
<td>Belton</td>
</tr>
<tr>
<td>Ann Michels Hill</td>
<td>Hickory Tavern</td>
</tr>
<tr>
<td>Cheryl Youmans Topping</td>
<td>Laurens</td>
</tr>
<tr>
<td>Elizabeth Isaac Holcombe</td>
<td>Easley</td>
</tr>
<tr>
<td>Martha Elizabeth Tribble</td>
<td>Laurens</td>
</tr>
<tr>
<td>Janice Vaughn Holland</td>
<td>Laurens</td>
</tr>
<tr>
<td>Charlotte Hunt Tucker</td>
<td>Piedmont</td>
</tr>
<tr>
<td>Vicki Lee Hyder</td>
<td>Seneca</td>
</tr>
<tr>
<td>Margaret Ulrick Turner</td>
<td>Chesnee</td>
</tr>
<tr>
<td>Suzanne Watkins Jaskin</td>
<td>Greenville</td>
</tr>
<tr>
<td>Rebecca Strahley Vinson</td>
<td>Greenville</td>
</tr>
<tr>
<td>Betty Hale Jones</td>
<td>Birmingham, Ala.</td>
</tr>
<tr>
<td>Lindsy Johnson</td>
<td>Greenville</td>
</tr>
<tr>
<td>Yvonne Creamer Jones</td>
<td>Pickens</td>
</tr>
<tr>
<td>Bethi Stallings Thomson</td>
<td>Laurens</td>
</tr>
<tr>
<td>Mary Sadda Joseph</td>
<td>Greerleyville</td>
</tr>
<tr>
<td>Cheryl Youmans Topping</td>
<td>Laurens</td>
</tr>
<tr>
<td>Lynn Pepper Lanford</td>
<td>Walhalla</td>
</tr>
<tr>
<td>Martha Elizabeth Tribble</td>
<td>Laurens</td>
</tr>
<tr>
<td>Dorothy Ann Mast</td>
<td>Centerport, Pa.</td>
</tr>
<tr>
<td>Charlotte Hunt Tucker</td>
<td>Piedmont</td>
</tr>
<tr>
<td>Kathryn Lipscomb McEachern</td>
<td>Pickens</td>
</tr>
<tr>
<td>Margaret Ulrick Turner</td>
<td>Chesnee</td>
</tr>
<tr>
<td>Mary Sadia Joseph</td>
<td>Greerleyville</td>
</tr>
<tr>
<td>Dorothy Ann Mast</td>
<td>Centerport, Pa.</td>
</tr>
<tr>
<td>Rebecca Strahley Vinson</td>
<td>Greenville</td>
</tr>
<tr>
<td>Mary Sadia Joseph</td>
<td>Greerleyville</td>
</tr>
<tr>
<td>Kathryn Lipscomb McEachern</td>
<td>Pickens</td>
</tr>
<tr>
<td>Deborah Norton White</td>
<td>Travelers Rest</td>
</tr>
<tr>
<td>Sharon Frisbee McManamay</td>
<td>Tamassee</td>
</tr>
<tr>
<td>Esther Channell Williamson</td>
<td>Mauldin</td>
</tr>
<tr>
<td>Karen Griffin Mill</td>
<td>Greenville</td>
</tr>
<tr>
<td>Rhonda Alycia Willis</td>
<td>Iva</td>
</tr>
<tr>
<td>Linda Garrett Young</td>
<td>Cheraw</td>
</tr>
<tr>
<td>Monica Vynelle Winecoff</td>
<td>Mauldin</td>
</tr>
</tbody>
</table>
### Personnel Services

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gail Davis Auld</td>
<td>Greenville</td>
</tr>
<tr>
<td>Linda Lothery Baird</td>
<td>Greenville</td>
</tr>
<tr>
<td>Harriet Elizabeth Bandy</td>
<td>McCormick</td>
</tr>
<tr>
<td>Susan Miller Bellinger</td>
<td>Greenville</td>
</tr>
<tr>
<td>A. Doris Weaver Coleman</td>
<td>Anderson</td>
</tr>
<tr>
<td>Mary Ann Barnett Dula</td>
<td>Ninety Six</td>
</tr>
<tr>
<td>Linda Craig Durham</td>
<td>Spartanburg</td>
</tr>
<tr>
<td>Lynne Day Fuller</td>
<td>Anderson</td>
</tr>
<tr>
<td>Betta Hunter Gatewood</td>
<td>Aiken</td>
</tr>
<tr>
<td>George Charles Getty</td>
<td>Silver Spring, Md.</td>
</tr>
<tr>
<td>Jane Knight Hopkins</td>
<td>Simpsonville</td>
</tr>
<tr>
<td>Janette Fuhrman Jackson</td>
<td>Easley</td>
</tr>
<tr>
<td>Annie Cates Johnson</td>
<td>Greer</td>
</tr>
<tr>
<td>Robert Frank Kolb II</td>
<td>Liberty</td>
</tr>
<tr>
<td>Georgia Ann Landon</td>
<td>Plantation, Fla.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kenneth Lane Lindsey</td>
<td>Townville</td>
</tr>
<tr>
<td>Christopher E. Longwill</td>
<td>Greenville</td>
</tr>
<tr>
<td>Marion Roberts May</td>
<td>Taylors</td>
</tr>
<tr>
<td>Dianne Morgera McLawhorn</td>
<td>Greenville</td>
</tr>
<tr>
<td>Vicki Farris Miesbauer</td>
<td>Clemson</td>
</tr>
<tr>
<td>Edward Gray Payne</td>
<td>Charlotte, N. C.</td>
</tr>
<tr>
<td>Kathy Dianne Pollard</td>
<td>Greenville</td>
</tr>
<tr>
<td>Jane Faith Price</td>
<td>Clemson</td>
</tr>
<tr>
<td>Barbara Drumond Richardson</td>
<td>Greenville</td>
</tr>
<tr>
<td>Mary Joyce Robinson</td>
<td>Anderson</td>
</tr>
<tr>
<td>Walter Edward Sayers</td>
<td>Greenville</td>
</tr>
<tr>
<td>Patricia Kearney Schwarz</td>
<td>Clemson</td>
</tr>
<tr>
<td>Martha Mann Suman</td>
<td>Clemson</td>
</tr>
<tr>
<td>Deborah Duncan Towe</td>
<td>Six Mile</td>
</tr>
<tr>
<td>Cynthia Staples Wilson</td>
<td>Greenville</td>
</tr>
</tbody>
</table>

### Reading

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandra Lynn Cassell</td>
<td>Pickens</td>
</tr>
<tr>
<td>Phyllis Balentine Culbertson</td>
<td>Ware Shoals</td>
</tr>
<tr>
<td>Dorothy Baldwin Edwards</td>
<td>Clemson</td>
</tr>
<tr>
<td>Mary Frances Watkins Gambrell</td>
<td>Greenwood</td>
</tr>
<tr>
<td>Alice Page Henderson</td>
<td>Greenville</td>
</tr>
<tr>
<td>Donna Mills Henderson</td>
<td>Simpsonville</td>
</tr>
<tr>
<td>Maude Wilson Latham</td>
<td>Abbeville</td>
</tr>
<tr>
<td>Brenda Tinchner Ledford</td>
<td>Fayetteville, N. C.</td>
</tr>
<tr>
<td>Lynn Carol Markovich</td>
<td>St. Helena Island</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>James Edward Matthews, Jr.</td>
<td>Clemson</td>
</tr>
<tr>
<td>Ann Martin Miller</td>
<td>Cornelia, Ga.</td>
</tr>
<tr>
<td>Alice Barbare Moon</td>
<td>Travelers Rest</td>
</tr>
<tr>
<td>Dorothy Lynn Hammond Owen</td>
<td>Williamston</td>
</tr>
<tr>
<td>Judith Parrish Price</td>
<td>Pelzer</td>
</tr>
<tr>
<td>Kathy Robbins Stallings</td>
<td>High Point, N. C.</td>
</tr>
<tr>
<td>Elizabeth Wheeler Staples</td>
<td>Greenwood</td>
</tr>
<tr>
<td>Mary Elizabeth Thurston</td>
<td>Easley</td>
</tr>
<tr>
<td>Sandra Weathers Welling</td>
<td>Greenville</td>
</tr>
</tbody>
</table>

### Secondary Education

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deborah Charping Alexander</td>
<td>Anderson</td>
</tr>
<tr>
<td>Alice Pearl Brewwington</td>
<td>Sanford, N. C.</td>
</tr>
<tr>
<td>Phyllis Hammonds Carpenter</td>
<td>Lincoln, N. C.</td>
</tr>
<tr>
<td>Robert Stephen Crapps</td>
<td>Greenville</td>
</tr>
<tr>
<td>Kathy Carter Deese</td>
<td>Mauldin</td>
</tr>
<tr>
<td>Mark Joseph DiBois</td>
<td>Toccoa, Ga.</td>
</tr>
<tr>
<td>Emma Duke Doughty</td>
<td>Anderson</td>
</tr>
<tr>
<td>Rebecca Gayle Barker Edwards</td>
<td>Anderson</td>
</tr>
<tr>
<td>Thomas Eugene Edwards, Jr.</td>
<td>Greenville</td>
</tr>
<tr>
<td>Linda Lee Frasher</td>
<td>Greenville</td>
</tr>
</tbody>
</table>

### Master of Industrial Education

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stephen Robert Collins</td>
<td>Moore</td>
</tr>
<tr>
<td>Angela Michael Craig</td>
<td>Greenville</td>
</tr>
<tr>
<td>James Robert Henderson, Jr.</td>
<td>Simpsonville</td>
</tr>
<tr>
<td>Jerry Gale Lamme</td>
<td>Atlanta, Ga.</td>
</tr>
</tbody>
</table>

### College of Engineering

#### Master of Engineering

**Electrical Engineering**
- Calvin Beecher Bradley ———— Clemson

**Environmental Systems Engineering**
- David Craig Tillwick ———— Lake Pine, N. J.

**Mechanical Engineering**
- Ralston Horace Moore ———— Spanish Town, Jamaica, W. I.

#### Master of Science

**Agricultural Engineering**
(Agricultural Engineering is jointly administered by the College of Agricultural Sciences and the College of Engineering.)
- Ronald Eugene Yoder ———— Richfield, Pa.
Bioengineering
James Blake Bigelow Summerville Steve Gus Hondros Florence

Ceramic Engineering
Temple Onyekpurulibeya John Ananaba Aba, Nigeria Alvin Lamar Campbell Anderson

Electrical Engineering
Joseph Edward Guy Greenville Leonard Darrell Reynolds Darlington

Environmental Systems Engineering
Karen Lynn McDowell Chattanooga, Tenn. David Gene Page Spartanburg

Systems Engineering
Emil William Heikkila Sumter Wade Harrison Shaw, Jr. Simpsonville
Barry Joseph Hudson Seneca Casper Eldredge Wiggins, Jr. Greenwood

COLLEGE OF FOREST AND RECREATION RESOURCES
MASTER OF RECREATION AND PARK ADMINISTRATION
Daniel Michael Hood Charleston Donald Michael Murphy Merrick, N. Y.
John Daly McEachern Greenville Renee Frances Murphy Merrick, N. Y.
Terry Leon Mullis Greenville Marcia Rae Wallenius Glendale, Cal.

MASTER OF SCIENCE
Forestry
Stephen Kent Nodine Clemson Thomas James Tworkoski Bayonne, N. J.

COLLEGE OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE
MASTER OF ARTS
Economics
Imre Karafiath Huntington, N. Y. Wendell Gene Wilson Mill Spring, N. C.

Management
Clyde Rashleigh Browne Georgetown, Guyana Richard Early Reeves Georgetown
Mehmet Mustafa Esat Kadaster Istanbul, Turkey Daniel Howard Sides Abbeville

Textile Chemistry
Denny Emile Black Charleston

COLLEGE OF LIBERAL ARTS
MASTER OF ARTS
English
Sue Lile Inman Greenville Daniel Greene Porter Seneca
Jane Bowers Martin Clemson Rose-Marie Eltzroth Williams Abbeville
Rachel Andre Peters Columbia

History
Hilary Susan Nelson Crawley, Sussex, U. K.
COLLEGE OF NURSING
MASTER OF SCIENCE

Nursing
Kathleen Davis Hatley Columbia
Arlene Bauknight Privette Central

COLLEGE OF SCIENCES
MASTER OF SCIENCE

Mathematical Sciences
Diane Alberga Round Top, N.Y.
Ann Link Hart Williamsburg, Va.
Fidelis M. Ikem Onicha-Ugbo, Bendel, Nigeria

Steven Todd Kramm Belleville, Pa.
Jeanne Cunningham Mitchell Tupelo, Miss.
William Harrington Richardson, Jr. Seneca

Microbiology
Alexander Hyman Cohen Darlington
Julius Gilbert Freeman, Jr. Columbia
Margie Kathleen Gaffney Joanna

John Michael Henson Greer
Wade Louis Pepper, Jr. Williamston

Physics
Kai-Ning Chang Taipei, Taiwan

Zoology
Jimmy Neal Williams Lexington, Tenn.
CANDIDATES FOR DOCTORS' DEGREES
ARNOLD EDWARD SCHWARTZ, Dean, Graduate School

COLLEGE OF AGRICULTURAL SCIENCES

DOCTOR OF PHILOSOPHY

Applied Economics

Everette Brent Sigmon ............................................. Pendleton
B.S., North Carolina State; M.S., Clemson University
Dissertation: Migration Patterns and Revealed Values of Environmental Quality: An Empirical Extension of the Tiebout Hypothesis

Entomology

Joseph Harry Patti ................................................ Hinesville, Ga.
B.S., Georgia Southern; M.S., Clemson University

Leroy Morris Sutton .............................................. Clemson
B.S., Clemson University
Dissertation: Immunological and Pathological Studies with the Fungal Pathogen Nomuraea Rileyi in Noctuid Hosts

Nutrition

Ashby Burgess Bodine II ........................................ Seneca
B.A., M.S., Clemson University
Dissertation: Investigations of In Vitro Liver Metabolism of AFB₁ by the Young Dairy Calf

Ching Hsong Chang ............................................... Erh-Shui, Taiwan
M.S., Kansas State University
Dissertation: Effects of Exogenous Hormones and Lactation on Postpartum Anestrus and Metabolic Status in Young Beef Cows

Plant Physiology

William Michael Gray ............................................ Pensacola, Fla.
B.S., Bob Jones University; M.S., Clemson University
Dissertation: Microbial Interactions in Defined Continuous Culture Systems Affecting Anaerobic Cellulose Degradation

COLLEGE OF ENGINEERING

DOCTOR OF PHILOSOPHY

Engineering

Walter Timmons Cardwell, Jr. .................................. Anderson
B.S., Clemson University
Dissertation: A Modified Junction Field — Effect Transistor (Field of Specialization: Electrical Engineering)

John Anton Collier .............................................. Damascus, Ga.
B.A.E., Georgia Institute of Technology; M.S., University of Georgia
Dissertation: A Fluorescent Photography Technique for Evaluating the Incorporation of Soil-Applied Chemicals (Field of Specialization: Agricultural Engineering)

Richard Albert Schmalz, Jr. .................................. Sudbury, Mass.
B.S., M.S., Clemson University
Dissertation: Numerical Solution of the Transport Equation in an Estuary Utilizing a Link-Node Discretization (Field of Specialization: Systems Engineering)
COLLEGE OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE

DOCTOR OF PHILOSOPHY
Management Science
James Stith Hawkes III
B.S., University of Richmond; M.B.A., New York University
Dissertation: A Discussion of Ridge Regression Analysis and Its Application

COLLEGE OF SCIENCES

DOCTOR OF PHILOSOPHY
Chemistry
Donald Andrew Castillo, Jr.
B.S., Belmont Abbey College; M.A., Winthrop College; M.S., University of South Carolina
Dissertation: An Investigation of Glucosyl Bis(2-Hydroxy-1-Naphtalil-4-Sulfonic Acid) as a Colorimetric Reagent for Calcium in an Aqueous Medium

Ping-Sun Ralph Cheung
B.S., North Carolina State University; M.S., Clemson University
Dissertation: Photodegradation and Energy Transfer in Poly (Ethylene Terephthalate-Co-2,6-Napthalene-dicarboxylate)

Jung-chen Chou Johnson
B.S., Tunghai University
Dissertation: Thermal Diffusion Theory for Liquid Mixtures with Association Reactions. Temperature Dependence of the Thermal Diffusion Factor for Methanol-Benzene Mixtures

Mathematical Sciences

William George Frye
B.S., Valdosta State College; M.S., Clemson University
Dissertation: On Path-Factorization of Some Digraphs

Physics

William Joseph Mealing, Jr.
B.S., August College
Dissertation: Ionic Defects — Their Transport and Interaction in AgBr, RbN₃ and KN₃

Barney Edsel Taylor
B.S., East Tennessee State University
Dissertation: Electrical Transport Studies of NH₄Cl and NH₄Br

Beverley Ann Price Taylor
B.S., East Tennessee State University
Dissertation: Solitary Waves in Relativistically Invariant Field Theories and Their Application to the Electromagnetic Interactions of Hadrons
CLEMSON ALMA MATER

A. C. Corcoran, '19

Where the Blue Ridge yawns it 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 Tigers 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.

August 14, 1978