CLEMSON UNIVERSITY

Doctoral Hooding Ceremony

DECEMBER 14, 2016





Doctoral Hooding Ceremony

Wednesday, December 14, 2016 3:00 pm

Brooks Center for the Performing Arts

ORDER OF CEREMONIES

PROCESSIONAL

(Please stand for the processional and the National Anthem)

NATIONAL ANTHEM

Opening of Ceremony University Marshal Deborah M. Switzer

REFLECTION

Ashley L Isreal PhD candidate in Educational Leadership Gates Millennium Scholar

WELCOME AND INTRODUCTIONS

Associate Provost and Dean of the Graduate School
Jason W Osborne
and
Executive Vice President for Academic Affairs and Provost
Robert H Jones

Conferring of Degrees, Delivery of Diplomas, and Hooding President James P Clements

Alma Mater

RECESSIONAL

Music by the Clemson University Brass Quintet Selections and credits on page 15

Today's ceremony is being streamed live with captioning at tv.clemson.edu/live. The recording will be posted at tv.clemson.edu/live/archive when available.

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D Leslie Tindal	Pinewood, SC
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Angela E Leidinger

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THE GRADUATE SCHOOL

Jason W Osborne Associate Provost and Dean

> Frankie O Felder Senior Associate Dean

William G Ferrell Associate Dean

David S Fleming Associate Dean

Tia N Dumas Assistant Dean for Professional Development and Inclusive Excellence

COLLEGIATE DEANS

George R Askew, Jr Dean of College of Agriculture, Forestry and Life Sciences

Richard E Goodstein
Dean of College of Architecture, Arts and Humanities

Brett A Wright
Dean of College of Behavioral, Social and Health Sciences

Robert E McCormick Dean of College of Business

Anand K Gramopadhye Dean of College of Engineering, Computing and Applied Sciences

> George J Petersen Dean of College of Education

Mark D Leising
Interim Dean of College of Science

Maggie Farrell Dean of Libraries

GRADUATE STUDENT GOVERNMENT

Tyrese J Bryant President

R Shawn Nanney Vice President

David C Bivens Vice President of the Greenville Council

Special Thanks to Graduate Program Directors and Staff

Although there are too many to list, the graduate program coordinators, the administrative contacts, and the student services coordinators for each graduate degree program are essential to the success of graduate education at Clemson University. We hope you take great pride in seeing today's graduates walk across the stage, because this would not have been possible without you. Thank you.

Associate Deans and Department Chairs

ASSOCIATE DEANS AND	DEPARTMENT CHAIRS
College of Agriculture, Forestry and Life Sciences	Daniel L Noneaker Electrical & Computer Engineering Cindy M Lee Engineering & Science Education
Joseph D Culin Associate Dean for Research and Graduate Studies	David L Freedman Environmental Engineering & Earth Sciences
Ted Whitwell	R Joe Watkins General Engineering
Associate Dean for Undergraduate Studies	J Cole Smith
Patricia A Zungoli, <i>interim</i> Agricultural & Environmental Sciences	Christopher L Cox, interim
James R StricklandAnimal & Veterinary Sciences E Jeffery RhodehamelFood, Nutrition, & Packaging	Richard Fighora, merimiviechanicai Engineering
Sciences	College of Behavioral, Social and
Greg K YarrowForestry & Environmental Conservation	HEALTH SCIENCES
College of Architecture, Arts and Humanities Constancio K Nakuma	Kathy N Headley Senior Associate Dean of the Division of Collaborative Academic Services
Senior Associate Dean for Academic Affairs and	Eric R Muth
Undergraduate Studies	Associate Dean for Research and Graduate Studies
James H Spencer	Denise M Anderson Associate Dean for Undergraduate Studies
Associate Dean for Research and Graduate Studies	Kathleen L Valentine
Katherine L SchwennsenSchool of Architecture Greg W ShelnuttArt	Associate Dean for School of Nursing
Roger W LiskaConstruction Science & Management	Kathleen L ValentineSchool of Nursing
Lee J Morrissey English James M Burns History	Bryan E Denham
Mary G Padua Landscape Architecture	Francis A McGuire, interim
Salvador A OropesaLanguages	Bruce W Ransom II
David J Hartmann Performing Arts	Jeffrey S Peake
Charles Starkey, <i>acting</i>	Patrick H Raymark
James 11 Openeer Flamming, Development & Freservation	Douglas "Kinly" SturkieSociology & Anthropology
College of Business	Mark A Small
Gregory M Pickett Senior Associate Dean and Director of MBA Programs	College of Education
Douglas "Kinly" Sturkie	Kathy N Headley
Associate Dean for Academic Affairs Eric R Muth	Senior Associate Dean of the Division of Collaborative Academic Services
Associate Dean for Research and Graduate Studies	David E Barrett
Loffrey I Ma Millian intuin School of Accountance	Associate Dean for Academic Affairs and Research
Jeffrey J McMillian, interim	Suzanne N Rosenblith Associate Dean for Undergraduate Studies
Angela G Morgan, interim Finance Charles Tonkin	Deborah M Switzer Education & Human Development
"Sri" V Sridharan	Robert C Knoeppel Educational & Organizational
Gregory M Pickett, interim	Leadership Development
C	Jeff MarshallTeaching & Learning
College of Engineering, Computing and Applied Sciences	College of Science
Douglas E Hirt	Lesly A Temesvari
Associate Dean for Research and Graduate Studies	Interim Associate Dean for Research
Bradley J Putman	Brian N Dominy
Associate Dean for Undergraduate Studies	Interim Associate Dean for Academic Affairs
Eileen T Kraemer School of Computing	Robert S Cohen Biological Sciences
Zoran S Filipi	R Karl Dieter
Martine LaBergeBioengineering David A Bruce, <i>interim</i> Chemical & Biomolecular Engineering	Christopher L Cox, <i>interim</i>
James R MartinCivil Engineering	Terry M Tritt, interim

A Brief History of Graduate Education and the Graduate School at Clemson University

[Clemson's faculty] would engage in original and important research, by which knowledge would be increased, whilst the immediate objects... would be the diffusion of facts on all scientific subjects. It would be vain to attempt to fix a limit to the benefits that would thus be conferred upon mankind and their effects upon society... — THOMAS GREEN CLEMSON¹

In conceptualizing a "high seminary of learning" for South Carolina, Thomas Green Clemson knowingly set the stage for graduate education to emerge as an engine of economic development in the state. Graduate education quickly became synonymous with the application of theory to improving the practices of education and agriculture. The analysis of fertilizer, a contracted activity of the chemistry department that began in the late 1930s, would help restore depleted South Carolina soils, increase agricultural production, and spur a rapid development in opportunities for students at Clemson College to study beyond the baccalaureate degree.

Graduate coursework initially responded to the needs of veterans, and to the interests of teachers wanting to improve their classroom skills, but also, from its inception, attracted international students' attention. On June 3, 1924, Patrick Hobson of Sandy Springs, South Carolina, earned the first master's degree awarded at Clemson, and used his degree in vocational education to serve as high school principal and later as superintendent of schools in York County, South Carolina and Mitchell County, North Carolina. The third graduate degree, a master's in textile industrial education awarded to Ko-Chia Li from Mukden, China, on June 1, 1926, initiated an enrollment trend that has catapulted China to its present status as the number-one sending country for international graduate students at Clemson. Mr. Li returned to China and taught as a professor of textile engineering at Peking University, and served as head of the construction department in LiaoBei Province.

From 1938 until 1945, all aspects of graduate education (courses, programs, policies, procedures, admission, and graduation) developed under the auspices of the Committee on Graduate Instruction, chaired by F. H. H. Calhoun, Dean of the School of Chemistry and Geology. Twice during these years the University's attempts to formalize graduate education were thwarted because of the challenges to the Committee to maintain the necessary standards of quality. Clemson faculty recognized early that to establish a graduate program that enabled Clemson alumni to enroll would require strengthening the undergraduate curriculum and courses to prevent knowledge gaps "between the two."²

On March 14, 1945, President Poole received the Committee's resolution requesting the appointment of a dean of the Graduate School. It had been ascertained by that time that 19 courses could be offered immediately by the schools of agriculture, chemistry, engineering, textiles, and arts and sciences. On July 27, 1946, the Board of Trustees approved the Committee's proposed graduate program of study, and that fall, formally admitted the first class of students into "the Graduate School." However, it would not be until June 15, 1951 that Herbert J. Webb, Chair of the Department of Chemistry and Toxicology, was appointed as the first Dean of the Graduate School.

Masterfully stewarded by President Poole himself, and modeled initially after several prestigious southern institutions, Clemson's graduate programs grew cautiously but steadily, introducing the first doctoral degree, in plant pathology, in 1955. Today the Graduate School proudly enrolls 4,712 graduate students and, including today's graduation, has awarded 36,616 master's degrees, 498 education specialist degrees, and 4,599 doctoral degrees.

- 1. Holmes, A, and GR Sherrill. Thomas Green Clemson: His Life and Work. 1937, p. 129.
- 2. Clemson University Library System archives. Minutes of the Committee on Graduate Instruction, 1945-1953, p. 7.

Doctoral Hooding

The doctoral hood is a symbolic honor of distinction bestowed upon scholars who have attained the highest level of formal education available in the world, representing a typical range of five to seven years of study beyond the bachelor's degree. Clemson's 46" long doctoral hood is draped over the shoulders by the faculty member who, as chair of the advisory committee, has formally mentored and guided the student's successful research and education journey.

CANDIDATES FOR THE DOCTORAL DEGREE

Jason W Osborne, Dean, Graduate School

College of Agriculture, Forestry and Life Sciences

DOCTOR OF PHILOSOPHY

Food Technology

Bolim Lee	Incheon, Korea
and Evaluation of their <i>In Vitro</i> Biol Advisor: Dr. F Chen	Vitis rotundifolia) During Ripening Stages logical Properties and received an award certificate in the IFT
graduate student poster competition	1.
Collin Jeffrey Popp	metry Methodology, Postural Energy
B.S., University of Costa Rica; M.S., Cla Dissertation: Spatial Analysis of the Nu in the Older Americans Act Program Advisor: Dr. K Cason Maciel won first place at the Graduate I	tritional Risk of Older Adults Participating
Plant and Envi	ronmental Sciences
M.S., Omar Almukter University	•
Asma Abdelghafar Abdelghafar B.S., M.S., Garyounis University Dissertation: Enabling Marker Assisted Compounds in Peach [<i>Prunus persica</i> Advisor: Dr. K Gasic	

Wildlife and Fisheries Biology

Lindsay Moore Hill	Butler, PA
B.S., Indiana University of Pennsylvania; M.S., Clemson University	
Dissertation: Investigation into the Ecological and Toxicological Constraint Population of Lesser Flamingos (<i>Phoeniconaias minor</i>) at Kamfers Dam in	
South Africa	i ranno errej,
Advisors: Dr. William Bowerman and Dr. G Yarrow	
Kyla Jayne IwinskiMa	rquette, MI
B.A., University of Denver; M.S., Northern Michigan University	1 /
Dissertation: Release and Degradation of Microcystin-LR Following Exposu Microcystis to Copper-Based Algaecides	res of
Advisor: Dr. J Rodgers, Jr. Kyla has six peer-reviewed publications, was named the Aquatic Plant Mana	gement
Society's 2016 graduate student of the year, and has accepted a position Polymer Systems.	_
Andrew David McQueenl	Ravville, LA
B.S., University of Louisiana; M.S., Clemson University	, ,
Dissertation: Mitigating Risks of Oil Sands Process Affected Water Using F Constructed Wetland Treatment Systems	lybrid
Advisor: Dr. J Rodgers Jr. Andrew has four peer-reviewed publications and was featured in Clemson's	Newsstand
for his role in designing treatment systems for renovating Canadian mir	
College of Architecture, Arts and Humanities Doctor of Philosophy	S
Rhetorics, Communication and Information Design	
Katherine A Elrick	Elgin, II
B.A., M.S., Illinois State University; M.A., Arcadia University Dissertation: Ironic Feminism: Rhetorical Critique in Satirical News Advisor: Dr. D Blakesley	···· 2.g, 22
COLLEGE OF BEHAVIORAL, SOCIAL AND HEALTH SCIENCE DOCTOR OF PHILOSOPHY	CES
International Family and Community Studies	
Holly GroverCov	ington, OH
B.A., Brigham Young University	
Dissertation: Where Cultures Collide: Hispanic Family Involvement in Edu Among Different Socioeconomic Groups Advisor: Dr. S Limber	ıcation

Ben R Ole Koissaba	Narok, Kenya
M.A., Northwest University Dissertation: A Critical Analysis of Factors that Contrib Appropriation: The Case of Maasai Land Appropria Counties in Kenya	
Advisors: Dr. M Small and Dr. B Holaday	
Policy Studies	
Peter Marcus Staples	Clemson, SC Chicago; M.S., Clemson
University Dissertation: Social Entrepreneurialism as Economic De Advisors: Dr. D Willis and Dr. D Hughes	
College of Business Doctor of Philosophy	8
Economics	
Abdulbasit Aydin	
COLLEGE OF EDUCATIO DOCTOR OF PHILOSOPHY	N
Curriculum and Instruction	n
Corrie Leigh Martin	
Erica B Walker	
B.F.A., University of Colorado; M.S., Clemson University	•
Dissertation: Opportunities for Innovation: Game-based Senior Design Course Advisor: Dr. M Boyer	d Learning in an Engineering
Erica is a lecturer in the Department of Graphic Comm Adobe Digital Creativity Scholar, and a Clemson The she has given ten conference presentations and has	ninks ² Faculty Scholar. In 2016,

Educational Leadership

Sumood Makki AlmaowashiClemson, S	C
B.A., University of Baghdad; M.A., Clemson University	
Dissertation: Online Social Networking and International Students' Adjustment	
Advisor: Dr. R Marion	
Sumood is a Fulbright Scholar. She earned her M.A. in English from Clemson and	
plans to work with international students attending academic institutions across the	he
US.	
7 137.1 177.1	. .
Jared Michael HalterYork, F	'Α
B.S., Slippery Rock University; M.S., Syracuse University	
Dissertation: me of the Lowercase Variety: Reflections on the American Dream, Power Privilege, and self	1,
Advisor: Dr. M Boettcher	
Jared is a social justice educator and 2013 Education Pioneers Fellow. He is writing a	
book manuscript on the American dream and will be a public scholar.	
Kristin Adams SchulzeGreenville, S	C
B.A., University of South Carolina, M.A.T., College of Charleston	
Dissertation: Instructional Coaches and the Development of Relational Trust	
Advisor: Dr. H Klar	
COLLEGE OF ENGINEERING COMPUTED AND ADDITION SOURCES	
College of Engineering, Computer and Applied Sciences	
Doctor of Philosophy	
Automotive Engineering	
Farbod Akhavan NiakiGreenville, S	SC.
B.S., M.S., Sharif University of Technology	
Dissertation: A Probabilistic-Based Approach to Monitoring Tool Wear State and	
Assessing Its Effect on Workpiece Quality in Nickel-Based Alloys	
Advisor: Dr. L Mears	
Jun HuBengbu, Ching. B.S., B.A., Qingdao University of Science and Technology; M.S., Clemson University	na
Dissertation: Characterization and Modeling of Deformation, Springback, and Failure	e
in Advanced High Strength Steels (AHSSs) Advisor: Dr. F Abu-Farha	
Jun has had 13 conference presentations and publications in the past four years. He	
worked as an intern in ThyssenKrupp Steel in 2015 and will join AK Steel in 2017	,
worked as an incern in 111/seema app ecces in 2015 and win join 111 ecces in 2011	•
Xianjie Zhou Foshan, Chir	na
B.S., South China University of Technology; M.S., Beihang University	
Dissertation: Formulation of an Interactive Ruled-based Design Envelope for Ensuring	g
Aftermarket Vehicle Dynamics Compliance	
Advisor: Dr. B Ayalew	
Xianjie has three peer-reviewed publications and has accepted an automotive	
technology position at Robert Bosch LLC.	

Bioengineering

•	Sumter, SC
B.S., M.S., Clemson University Dissertation: Diabetes in Low-Reso Daily Monitoring	ource Settings: Novel Methods for Detection and
Advisor: Dr. D Dean	
	eIt! prize in 2014, has a peer-reviewed publication, etes medical device industry.
Che	emical Engineering
Nithinart Chitpong B.Sc., MEng., Chulalongkorn Uni	
	lose Nanofiber Membranes for Heavy Metals
C	Civil Engineering
Zeinab Farahmandfar B.S., Power & Water University of of Technology	Tehran, Irar Technology; M.S., K.N. Toosi University
0,	nabilitation Planning of Water Supply Systems
Behnam Naji	Clemson, SC
Concrete I-Girders	., University of Dayton I Modeling of Bond-Loss Behavior in Pretensioned
Advisor: Dr. B Ross Behnam has four peer-reviewed pu Fellowship and received a 2016	ablications, won the 2013-2014 PCI Daniel P. Jenny 6 Glenn Teaching Fellowship.
	Zanjan, Irar Amirkabir University of Technology;
Dissertation: Interface Shear Tran Evaluation, Modeling, and Tes	9
Advisors: Dr. B Ross and Dr. T Co Mahmood has four peer-reviewed Glenn Teaching Fellowship aw	publications and has been twice honored with a
Dissertation: Traffic Surveillance a	

Computer Engineering Bo Wu......Clemson, SC B.S., M.S., Northwestern Polytechnical University Dissertation: Complex Network Analysis and the Applications in Vehicle Delay-Tolerant Networks Advisor: Dr. H Shen Computer Science B.S., M.S., University of Alabama Dissertation: Radiative Transfer Using Path Integrals for Multiple Scattering in Participating Media Advisor: Dr. J Tessendorf Paul is a member of the Upsilon Pi Epsilon National Honor Society and is currently working at Blizzard Entertainment. B.E., Anna University; M.S., Clemson University Dissertation: Efficient Analytics for Large Implicit Correlation Networks Advisor: Dr. B Dean Raghu won the Graduate Teaching Assistant Award in 2015, is passionate about teaching, and plans a career in teaching and service. B.S., Beijing Institute of Technology; M.S., Clemson University Dissertation: Accelerating Big Data Analytics on Traditional High-Performance Computing Systems Using Two-Level Storage Advisors: Dr. F Luo Yuanyuan ZhangSuizhou, China B.S., M.S., Wuhan University Dissertation: Techniques to Improve the Retrieval Efficiency and Usability of G-Bean Advisor: Dr. J Wang **Electrical Engineering** Abdlmnam A Abdlrahem......Alkufra, Libya B.S., Benghazi University; M.S., University of Tripoli Dissertation: A Multi-Model Approach to Design a Robust Fixed-Order Controller to Improve Power System Stability Advisor: Dr. E Makram

Abdlmnam has six peer-reviewed publications, and plans to work with Quanta

Dissertation: Optimal Operation of a Northwest Grid of Saudi Arabia Including Renewable Resources

Advisor: Dr. E Makram

Technology.

Yuan Li
Mehdi Rahmani-Andebili
Engineering and Science Education
Gustavo Moran Soto
Environmental Engineering and Science
Francisco Javier Barajas Rodriguez
Human Centered Computing
Jeffrey W Bertrand
Industrial Engineering
Ling Zu

Materials Science and Engineering

	Suqian, China
of Controlled Orientations	as with Embedded Magnetic Nanofibers or Nanorods
Advisors: Dr. F Peng and Dr. K k Zhaoxi has nine peer-reviewed pu Electron Microscopy Gradua	ıblications. He won the Hitachi High Technologies
James Brandon Marro	Orangeburg, SC
B.S., M.S., Clemson University Dissertation: Tunable Copper M Pulsed Electrodeposition Advisors: Dr. K Richardson and	licrostructures in Blanket Films and Trenches Using
Me	echanical Engineering
Saad F Alazemi B.S., M.S., Kuwait University; M Dissertation: Characterizing the	Fahaleel, Kuwait .S., Lawrence Technological University Performance of a Ferrofluid-Based Electromagnetic ect and Parametric Excitations
B.S., University of Sao Paulo; M.Dissertation: On the Modal EffeBeamsAdvisor: Dr. M Daqaq	ctive Nonlinearity of a Class of Tapered-Cantilever
Clodoaldo has three peer-reviewe at the Electric Power Researc	ed publications. Currently he is an engineer/scientist h Institute (EPRI).
Dissertation: Connected Vehicle Estimation and Optimization Advisor: Dr. A Vahidi	Tousi; M.Sc., University of Tehran es at Signalized Intersections: Traffic Signal Timing n
Alireza has three peer-reviewed jo in the automotive industry.	ournal publications and one patent. He plans to work
B.S., Azad University; M.S., Iran Dissertation: Developing Unit C Materials Advisors: Dr. J Summers and Dr	Ahvaz, Iran University of Science and Technology Cell Design Guidelines for Meso-scale Periodic Cellular . P Shankar ved publications and won two NSF/ASME design essay
B.S., Kocaeli University; M.S., C	lemson University ressure H_2/O_2 , H_2/A ir and <i>Kerosene/A</i> ir Reacting Shear

Ivan Saul Mata	Santa Ana, El Salvador
	Product Evolution Using Customer Feedback
B.S., Sichuan University; M.S., Clemson	ss Parameters During Laser Direct Metal
	E OF SCIENCE of Philosophy
Biochemistry a	nd Molecular Biology
B.S., Presbyterian College Dissertation: Glycosome Heterogeneit Trypanosoma brucei Advisor: Dr. M Morris Sarah has three peer-reviewed publicat	y, Dynamics, and ER Association in ions, was an NSF Graduate Research Fellowship has accepted a post-doctoral position at Stanford
C	hemistry
B.S., Erskine College Dissertation: Investigating Materials th Remediation of Volatile Organic C Advisor: Dr. D Whitehead McKenzie has six peer-reviewed publications	mat Promote New Organic Methodology and Compounds ations, has served on the cabinet of the inization, and plans to work in academia.
	Technology; M.S., South China University Cells
B.S., Qingdao University of Science & of Technology	

Alfredo Picado-Valenzuela
Genetics
Richard Elmer Boyles III
Steven Bradley Cogill
Mathematical Sciences
Christopher Michael Wilson
Physics
Philipp Alexander Roser
Menghan Zhou
Jingyi Zhu

CLEMSON ALMA MATER

FARMER AND McGARITY/ARR. FREEMAN

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 greater 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.

CEREMONIAL MUSIC

Clemson University Brass Quintet

Prelude

Various Marches and Processionals

Processional

Pomp and Circumstance - Sir Edward Elgar

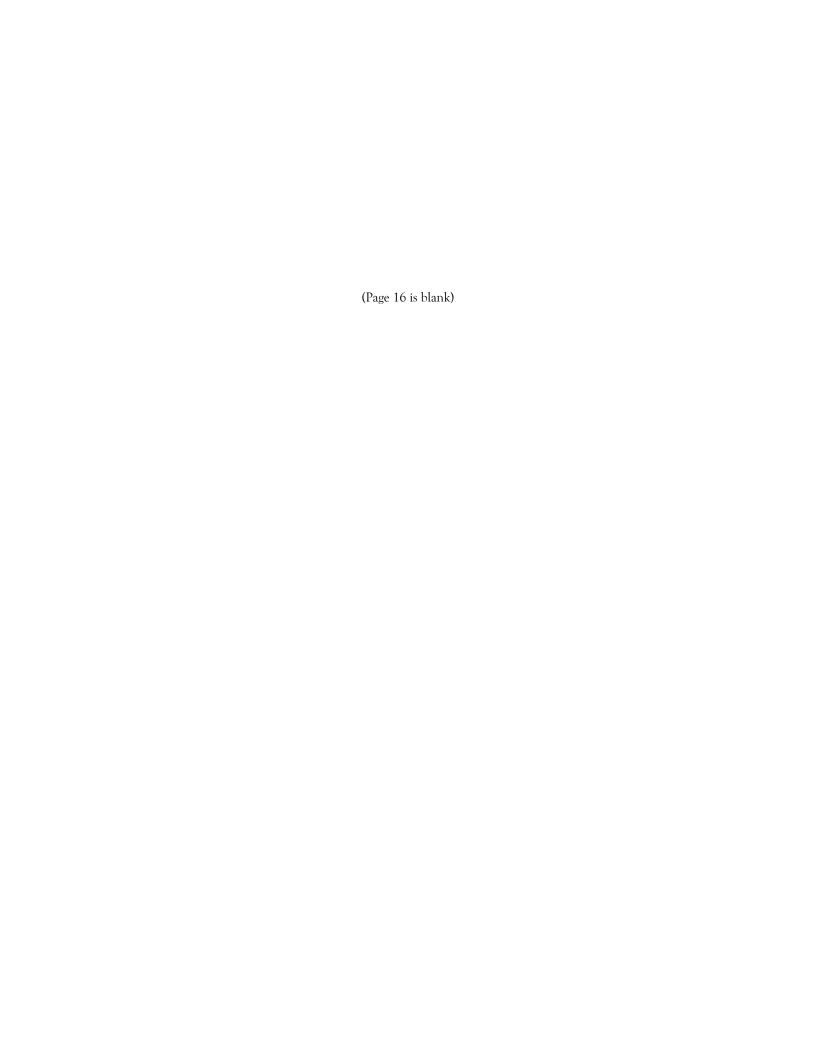
National Anthem

Words by Francis Scott Key Music attributed to John Stafford Smith Closing

Clemson University Alma Mater
Words by A C Corcoran, Class of '19
Music by Hugh H McGarity and R Hawkins
Arranged by J Butler

Recessional

Rondeau from "Sinfonies de Fanfares" — Jean-Joseph Mouret



Candidates appearing in this program are not certified graduates. Likewise, academic honors designations are based upon performance prior to final grades. Both certification of graduation and honors designations must come from the Registrar of the University.

