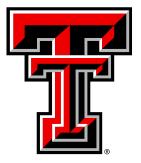
COMMENCEMENT





TEXAS TECH

UNIVERSITY.

December 2014





THE COMMENCEMENT

Friday , December 12, 2014 Saturday, December 13, 2014 UNITED SUPERMARKETS ARENA 3:00 p.m. and 7:00 p.m. 9:00 a.m. and 1:30 p.m. LUBBOCK, TEXAS) TABLE OF CONTENTS

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OUR MISSION

As a public research university, Texas Tech advances knowledge through innovative and creative teaching, research, and scholarship. The university is dedicated to student success by preparing learners to be ethical leaders for a diverse and globally competitive workforce. The university is committed to enhancing the cultural and economic development of the state, nation, and world.

TEXAS TECH UNIVERSITY ADMINISTRATION

M. DUANE NELLIS, Ph.D. President and Professor of Geosciences

LAWRENCE E. SCHOVANEC, Ph.D. Provost and Senior Vice President; Professor of Mathematics and Statistics

NOEL SLOAN, J.D., CPA Vice President for Administration and Finance; Chief Financial Officer ROBERT V. DUNCAN, Ph.D. Vice President for Research; Professor of Physics

JUAN S. MUÑOZ, Ph.D. Senior Vice President for Institutional Diversity, Equity, and Community Engagement; Vice Provost for Undergraduate Education and Student Affairs; Associate Professor of Curriculum and Instruction

TEXAS TECH UNIVERSITY SYSTEM CHANCELLOR / BOARD OF REGENTS

ROBERT DUNCAN, J.D. Chancellor, Texas Tech University System

> MR. MICKEY L. LONG Chairman, Board of Regents Midland, Texas

MR. LARRY K. ANDERS Vice Chairman, Board of Regents Dallas, Texas MR. JOHN ESPARZA Austin, Texas

MR. L. FREDERICK "RICK" FRANCIS El Paso, Texas

> MR. TIM LANCASTER Abilene, Texas

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MR. JOHN D. STEINMETZ Lubbock, Texas

MR. JOHN B. WALKER Houston, Texas

> MR. COBY RAY Plano, Texas

ACADEMIC OFFICERS

MARK SHERIDAN, Ph.D. Vice Provost for Graduate and Postdoctoral Affairs; Dean, Graduate School; Professor of Biology

> DARBY DICKERSON, J.D. Dean, School of Law; W. Frank Newton Professor of Law

MICHAEL L. GALYEAN, Ph.D. Dean, College of Agricultural Sciences and Natural Resources; Paul Whitfield Horn Professor and Thornton Distinguished Chair, Animal and Food Sciences

ANDREW D. VERNOOY, M.Des.S. Dean and Professor, College of Architecture W. BRENT LINDQUIST Ph.D. Dean, College of Arts and Sciences

LANCE A. NAIL, Ph.D., CFA Dean, Jerry S. Rawls College of Business; Professor of Business Administration

> SCOTT RIDLEY, Ph.D. Dean, College of Education; Professor of Education

AL SACCO, JR., Ph.D. Dean, Edward E. Whitacre Jr. College of Engineering; Professor of Chemical Engineering MICHAEL SAN FRANCISCO, Ph.D. Dean, Honors College; Professor of Biology

LINDA C. HOOVER, Ph.D. Dean, College of Human Sciences; Professor of Restaurant, Hotel and Institutional Management

DAVID D. PERLMUTTER, Ph.D. Dean, College of Media and Communication; Professor of Journalism and Electronic Media/Public Relations

CAROL D. EDWARDS, Ph.D. Dean, College of Visual and Performing Arts; Professor of Art ROM ITS VERY BEGINNING

the Texas Tech University community has had a sense of destiny and an awareness of the impact it could and would have on Texas and the wider world. Originally named Texas Technological College, the college opened in 1925 with six buildings, four schools (Agriculture, Engineering, Home Economics, and Liberal Arts), and an enrollment of 914. Texas Tech grew rapidly after World War II, and in 1969 the Texas legislature approved a name change to Texas Tech University. In the years since, Texas Tech has grown to become the largest comprehensive higher education institution in the western two-thirds of the state. As the only campus in Texas that is home to a major university, law school, and medical school, the university is the major institution of higher education in a region larger than 46 of the nation's 50 states.

Today, Texas Tech University continues to thrive, with more than 35,000 students enrolled in its 11 colleges: Agricultural Sciences and Natural Resources, Architecture, Arts and Sciences, Jerry S. Rawls College of Business, Education, Edward E. Whitacre Jr. College of Engineering, Honors College, Human Sciences, Media and Communication, Visual and Performing Arts, and the Graduate School, as well as University Programs via the Provost's Office. The institution's goal is to enroll 40,000 students by 2020.

Because of its educational scope and purpose and the size of the region it serves, Texas Tech University operates in numerous Texas locations beyond the Lubbock campus. In all the Texas Tech University System—which includes Texas Tech University, Angelo State University, Texas Tech University Health Sciences Center, and Texas Tech University Health Sciences Center at El Paso—has more than 44,000 students enrolled.





ABOUT TEXAS TECH

INCE TEXAS TECH'S FIRST

graduation ceremony in the spring of 1927, more than 200,000 undergraduate and graduate degrees have been awarded by the university. From these proud graduates have emerged captains of industry, world-renowned surgeons, noted authors, famous singers, acclaimed teachers and professors, attorneys, entrepreneurs, agronomists, scientists, professional athletes, and countless others who have claimed positions of service and responsibility in a rapidly changing world.

Texas Tech University graduates have governed three states, flown in space, won Olympic gold medals, served as ambassadors to foreign countries, acted on Broadway stages, won Pulitzer Prizes, served in Congress, led Fortune 500 companies, and been watched by millions on network television news.

Not all graduates will achieve fame and fortune in

equal measure, but all Texas Tech graduates can point with pride to the solid academic preparation they received and the personal connections they made as Red Raiders. For beneath the spacious skies of West Texas and in the halls of brick and tile through which they strolled during their time on campus, generations of Texas Tech students have been

provided a foundation for success that is without parallel. As they take their first steps into professional careers that will see many of them literally change the world, they can remember with absolute certainty one important fact about Texas Tech University:

From here, it's possible.













Friday, December 12, 2014 3:00 p.m.

Presiding

Processional*

National Anthem

Welcoming Remarks

Introduction of Commencement Speaker

Commencement Address

Conferring of Degrees

Presentation of Bachelor's Degree Candidates

Recognition of Outstanding Students Class of 2014

Charge to the Graduates

Alma Mater (Words on Back Cover)

Recessional*

Dr. M. Duane Nellis President, Texas Tech University

Texas Tech Commencement Band Prof. Duane Hill, Conductor

Ms. Hailey Anne Stockton Graduating with a Bachelor of Arts in Music

Mrs. Debbie Montford Board of Regents, Texas Tech University System

Dr. M. Duane Nellis

Dr. Mica R. Endsley-Jones Chief Scientist, United States Air Force

Dr. M. Duane Nellis Dr. Lawrence E. Schovanec Provost and Senior Vice President

Dr. W. Brent Lindquist Dean, College of Arts and Sciences

Dr. Lawrence E. Schovanec

Dr. M. Duane Nellis

Mr. Stuart Lee Aron Graduating with a Bachelor of Music

Texas Tech Commencement Band

Friday, December 12, 2014 7:00 p.m.

Presiding

Processional*

National Anthem

Welcoming Remarks

Introduction of Commencement Speaker

Commencement Address

Conferring of Degrees

Presentation of Doctoral and Master's Degree Candidates

Charge to the Graduates

Alma Mater (Words on Back Cover)

Recessional*

Dr. M. Duane Nellis President, Texas Tech University

Texas Tech Commencement Band Prof. Duane Hill, Conductor

Mr. Michael Andrew Needham Graduating with a Bachelor of Music

Mr. Mickey L. Long Chairman, Board of Regents, Texas Tech University System

Dr. M. Duane Nellis

Dr. Mica R. Endsley-Jones Chief Scientist, United States Air Force

Dr. M. Duane Nellis Dr. Lawrence E. Schovanec Provost and Senior Vice President

Dr. Mark A. Sheridan Vice Provost for Graduate Studies and Dean, Graduate School

Dr. M. Duane Nellis

Ms. Taylor Nicole Bell Graduating with a Bachelor of Music

Texas Tech Commencement Band

Saturday, December 13, 2014 9:00 a.m.

Presiding

Processional*

National Anthem

Welcoming Remarks

Introduction of Commencement Speaker

Commencement Address

Conferring of Degrees

Presentation of Bachelor's Degree Candidates

Recognition of Outstanding Students Class of 2014

Charge to the Graduates

Alma Mater (Words on Back Cover)

Recessional*

Dr. M. Duane Nellis President, Texas Tech University

Texas Tech Commencement Band Prof. Duane Hill, Conductor

Ms. Natalie D'Anne Head Graduating with a Bachelor of Music

Mr. Tim Lancaster Board of Regents, Texas Tech University System

Dr. M. Duane Nellis

Dr. Mica R. Endsley-Jones Chief Scientist, United States Air Force

Dr. M. Duane Nellis Dr. Lawrence E. Schovanec Provost and Senior Vice President

Dr. Linda C. Hoover Dean, College of Human Sciences Dr. Carol D. Edwards Dean, College of Visual and Performing Arts Mr. Andrew Vernooy Dean, College of Architecture Dr. Audra Morse Associate Dean for Undergraduate Studies and Professor, Edward E. Whitacre, Jr. College of Engineering Dr. Scott Ridley Dean, College of Education

Dr. Lawrence E. Schovanec

Dr. M. Duane Nellis

Mr. Alexander William Hardin Graduating with a Bachelor of Music

Texas Tech Commencement Band

 \bigcirc

Saturday, December 13, 2014 1:30 p.m.

Presiding	Dr. M. Duane Nellis President, Texas Tech University		
Processional*	Texas Tech Commencement Band Prof. Duane Hill, Conductor		
National Anthem	Mr. Andrew Howard Graham Cravatt Graduating with a Bachelor of Music		
Welcoming Remarks	Mr. Larry K. Anders Vice Chairman, Board of Regents, Texas Tech University System		
Introduction of Commencement Speaker	Dr. M. Duane Nellis		
Commencement Address	Dr. Mica R. Endsley-Jones Chief Scientist, United States Air Force		
Conferring of Degrees	Dr. M. Duane Nellis Dr. Lawrence E. Schovanec Provost and Senior Vice President		
Presentation of Bachelor's Degree Candidates	 Dr. Lance A. Nail Dean, Jerry S. Rawls College of Business Dr. Juan S. Muñoz (presenting University Studies and Wind Energy degrees) Senior Vice President for Institutional Diversity, Equity, and Community Engagement; Vice Provost for Undergraduate Education and Student Affairs Dr. David Perlmutter Dean, College of Media and Communication Dr. Michael L. Galyean Dean, College of Agricultural Sciences and Natural Resources 		
Recognition of Outstanding Students Class of 2014	Dr. Lawrence E. Schovanec		
Charge to the Graduates	Dr. M. Duane Nellis		
Alma Mater (Words on Back Cover)	Mr. Jesse David Gore Graduating with a Bachelor of Arts in Music		
Recessional*	Texas Tech Commencement Band		

COMMENCEMENT SPEAKER



Mica R. Endsley-Jones is Chief Scientist of the U.S. Air Force. Headquartered in Washington, D.C., she serves as the chief scientific adviser to the Chief of Staff and Secretary of the Air Force, and provides assessments on a wide range of scientific and technical issues affecting the Air Force mission. Dr. Endsley-Jones' research focuses on the design, development, and evaluation of systems to support human situation awareness and decision-making in aviation, air traffic control, space, cyber, military command and control, medical, and power systems operations. She is the author of over 180 scientific articles and reports on situation awareness in individuals and teams, human-automation integration, information dominance, human-system integration, human error, and training for situation awareness.

Previously, she served as president of SA Technologies in Marietta, Georgia, a cognitive engineering firm specializing in the development of operator interfaces for advanced systems, including the next generation of systems for military, aviation, air traffic control, medicine, and power grid operations. She was a visiting associate professor at MIT in the Department of Aeronautics and Astronautics and associate professor of industrial engineering at Texas Tech University.

She is a fellow in and immediate past-president of the Human Factors and Ergonomics Society, and was co-founder of the Cognitive Engineering and Decision Making Technical Group of HFES. Dr. Endsley-Jones has received numerous awards for teaching and research, is a Certified Professional Ergonomist and a Registered Professional Engineer. She is the founder and former editor-in-chief of the *Journal of Cognitive Engineering and Decision Making* and serves on the editorial board for three major journals. She has edited or co-authored three books including, *Designing for Situation Awareness*.

Dr. Endsley-Jones' received a Bachelor of Science in Industrial Engineering from Texas Tech University in 1982, and followed that by earning a Master of Science in Industrial Engineering from Purdue University in 1985 and a Ph.D. in Industrial and Systems Engineering from the University of Southern California in 1990.

ABOUT PRESIDENT M. DUANE NELLIS

M Duane Nellis was named the 16th president of Texas Tech University on March 22, 2013, and began serving as president in June 2013. As a national higher education leader and president of Texas Tech, Nellis has been committed to enhancing Texas Tech University's presence as a top tier national public research university through efforts that promote even greater levels of student success, academic quality and reputation, research and creative activities, and outreach dimensions. Nellis has defined Texas Tech 21st century pillars of excellence around such themes as being more entrepreneurial, more engaged, with a commitment to inter-disciplinary activities and global connections, while enhancing diversity.

He is recognized nationally and internationally for his research that utilizes satellite data and geographic information systems to analyze various dimensions of the Earth's land surface. This research has been funded by more than 50 sources, such as NASA, the National Geographic Society, the U.S. Agency for International Development, and the U.S. Department of Agriculture. His research has led to more than 120 articles and reports in a wide range of professional journals, and 17 books and book chapters. He has given more than 100 professional presentations and has been invited to speak at more than 60 universities and related settings internationally.



Nellis also has been recognized nationally and internationally for his research and teaching through numerous awards from organizations such as the Association of American Geographers (AAG), AAG's John Fraser Hart Award for Excellence in Research, the Outstanding Contributions Award by the AAG's Remote Sensing Specialty Group, the Young Research Scholar Award by the Institute of British Geographers, the Kansas State University Outstanding Teaching Award and University Adviser of the Year Award, as a Fellow of the American Association for the Advancement of Science, and as a Distinguished Alumni Fellow Award recipient from Oregon State University. Nellis previously served as provost and senior vice president at Kansas State University. He also served as dean of the Eberly College of Arts and Sciences at West Virginia University, the institution's largest academic college.

CONVOCATIONS COMMITTEE

Ms. Shelley Barba, Chair Dr. Barent McCool, Chair-Elect Dr. Amma K. Akrofi Dr. Rima Al Aijouni Mr. Pradeep Attaluri Mr. Ian Barba Dr. Alan Barenberg Dr. Rhonda Boros Dr. Julie Chang Dr. Fanni Coward Dr. Mukaddes Darwish Prof. Genevieve Durham DeCesaro Ms. Peggy Flores Dr. Matt Hart Ms. Laura Heinz Dr. Karlos Hill Dr. Catherine Jai Dr. Carole Janisch Dr. David Klein Dr. Katie Langford Dr. Jingyu Lin Dr. Elizabeth Louden Dr. Jaime Malaga Dr. Courtney Meyers Dr. Mark Moore Dr. Mary Murimi Dr. Diego Pascual Mr. Nick Pawelka Dr. Comfort Pratt Dr. Anne Prouty Mr. Tom Rohrig Mr. Matthew Schlief Ms. Cheryl Stevenson Ms. Carrye Syma Mr. Jake Syma Dr. Anna Tacon Dr. Marcus Tanner Dr. Susan Tomlinson Dr. Shu Wang Mr. Robert Wernsman Ms. Lynn Whitfield Ms. Heidi Winkler Dr. Aliza Wong Dr. Amani Zaier

COLLEGE READERS

Agricultural Sciences and Natural Resources – Dr. David Weindorf Architecture – Professor Michael Martin Arts and Sciences – Dr. Jorge Iber Business – Dr. Bob McDonald. Education – Dr. Margaret Johnson Engineering – Mr. Derrick Ginter Graduate School – Dr. Bill Gelber Human Sciences – Dr. Shane C. Blum Media and Communication – Dr. Todd Chambers University Programs – Dr. Marcus Tanner Visual and Performing Arts – Dr. Quinn Patrick Ankrum Wind Energy – Dr. Marcus Tanner

ADMINISTRATIVE REPRESENTATIVES

Agricultural Sciences and Natural Resources Ms. Savannah Leonard Architecture – Ms. Anna Martinez-Lopez Arts and Sciences - Ms. Kim Mills Business - Ms. Geleah Sharp Education – Ms. Connie Watson Engineering – Ms. Tonette Rittenberry Graduate School – Ms. Vanessa Bara Honors College – Ms. Megan Conley Human Sciences – Mr. Andrew Vanderpool Media and Communication -Dr. Marijane Wernsman University Studies - Ms. Amy Peterman and Ms. Sarah Foley Visual and Performing Arts -Ms. Kathy Nordstrom Wind Energy – Ms. Kacey Young



STUDENT BANNER BEARERS

Agricultural Sciences and Natural Resources -Ms. Stacie McKinney Architecture - Mr. Sawyer Lee Wilson Arts and Sciences -Ms. Daniela Anna Hagenlocher Business - Ms. Chelsey Betenbough Education – Ms. Maira Perez Engineering - Mr. Paul Guthrie Gatewood Graduate School - Mr. John Robert Middleton Honors College -3:00 p.m. Ms. Camden Hoeffner 9:00 a.m. Mr. Jesse Latimer 1:30 p.m. Ms. Erin Warren Human Sciences - Ms. Brianna Noel Bush Media and Communication -Ms. Kayla Mercedes Suarez University Programs -Mr. Richard Charles Deming Visual and Performing Arts -Ms. Catherine Leigh Burris

FACULTY BANNER BEARERS FOR UNDERGRADUATE CEREMONIES

3:00 p.m. – Dr. Nancy McIntyre Professor of Biological Sciences, College of Arts and Sciences

7:00 p.m. – Dr. Jorgelina Orfila Associate Professor of Art History, College of Visual and Performing Arts

9:00 a.m. – Dr. Douglas B. Smith Associate Professor of Marriage and Family Therapy, College of Human Sciences

1:30 p.m. – Pete Brewton, J.D. Instructor in Journalism and Electronic Media, College of Media and Communication

INTERNATIONAL FLAGS

From earliest times flags have served as symbols of ideals, aspirations, and loyalties, representing in modern times the national states and involving sentiments of pride and patriotism. Every flag has its own tale of national meaning to its symbols and colors.

Students from every state in the nation have attended Texas Tech, and the fall 2013 enrollment included international students from 105 countries. It is with pride that the university displays flags from around the world to represent the many countries that comprise the Texas Tech student body. PRESIDENTIAL MACE

ROWNED BY A FLAME symbolizing the Light of Knowledge, the Texas Tech University Presidential Mace is the symbolic staff of the power and authority of the university. It is constructed of lathed and molded bronze that has been rubbed with a layer of 24K gold. The school crest is presented on either side directly under the flame. Hand-rubbed black walnut has been used for the connecting shafts. The mace was designed by Professor Ro-

bly A. Glover in the School of Art. Professor Glover's artwork is on display throughout the United States and included in the permanent collections of the Art Institute of Chicago, The Yale Silver Collection, and the Victoria and Albert Museum in London.



MACE BEARERS

GRADUATE SCHOOL CEREMONY

7:00 p.m., December 12

Stephen Cook, Ph.D. Associate Professor of Psychological Sciences College of Arts and Sciences

UNDERGRADUATE CEREMONIES

 3:00 p.m., December 12 Jerry Dwyer, Ph.D. Professor of Mathematics and Statistics College of Arts and Sciences
 9:00 a.m., December 13 Theodore C. Cleveland, Ph.D. Associate Professor of Civil and Environmental Engineering Edward E. Whitacre, Jr. College of Engineering
 1:30 p.m., December 13 Courtney Meyers, Ph.D. Associate Professor of Agricultural Education and Communications College of Agricultural Sciences and Natural Resources

GRADUATION HONORS

Graduating seniors who have maintained an overall 4.0 GPA include the following:

NATALIE NICHOLE BROWN CATHERINE LEIGH BURRIS LUKE ANTHONY BURTON BRIANNA NOEL BUSH TYLER RAY DOWDY JOSEPH FRANKLIN ELLIS PAUL GUTHRIE GATEWOOD JORDAN E. GOSNELL REBEKAH YVONNE GRAY DANIELA ANNA HAGENLOCHER CAMDEN ELLESE HOEFFNER TAYLOR CAIN HOWELL HOLLY MICHELE JEFFERYS KENDALL DAWN KENNEDY JOEL MARK LEE CATHERINE LEEANN MCKEE VALERIE VIRGINIA MOLINA-RIVERA CODY AUSTIN MONNETTE HIEU KHAC ANH NGUYEN LAURA ELIZABETH PONDER BRENTON LANE SCHERWITZ SAMANTHA ARLENE SHEETZ KAYLA MERCEDES SUAREZ LESLEY ANNE VALASTRO COLLEEN ANN WILLIAMS

CANDIDATES FOR GRADUATE DEGREES

The **doctoral degree** is the most advanced earned degree conferred by American institutions of higher learning. The doctorate usually represents prolonged periods of advanced study culminating in a dissertation intended to contribute substantially to the body of knowledge on the subject. The most widely sought doctorate is the Doctor of Philosophy, which no longer has an implication of philosophy as the major field of study but represents advanced research in any of the major fields of knowledge.

The **master's degree** is an academic honor bestowed upon students who have successfully completed work beyond the baccalaureate. Both a thesis and an oral examination are usually but not always required. When applicable, the graduate's thesis topic is listed.

DOCTOR OF EDUCATION

EDUCATIONAL LEADERSHIP

DENVER S. CRUM

DISSERTATION: Analysis of Rural Superintendents' Perceptions of Concealed Carry Handgun Policies: A Mixed Methods Study MAJOR PROFESSOR: Fred Hartmeister

RAELYE TAYLOR SELF

DISSERTATION: To Speak or Not to Speak: Female Secondary Administrators and Communication Gender Bias MAJOR PROFESSOR: Fernando Valle

HIGHER EDUCATION

LORI PLUMBTREE GRUBBS

DISSERTATION: A Case Study of Community College Administrators' Perceptions of Institutional Response to the Performance-based Funding Mandate in the State of Texas MAJOR PROFESSOR: Stephanie J. Jones

DAN MATTHEW JOINER

DISSERTATION: A Qualitative Exploration of the Effects of Organizational Structures on Performance-based Funding Implementation Success in Texas Community Colleges MAJOR PROFESSOR: Stephanie J. Jones

STACI JO MARTIN

DISSERTATION: Dual Credit in Texas Community Colleges: A Quantitative Analysis of the Relationship between Grades and Course Subject, Location, and Faculty Type MAJOR PROFESSOR: Stephanie J. Jones

MICHAEL JOSEPH SIMON

DISSERTATION: Political Environments and the Community College Baccalaureate: An Event History Analysis MAJOR PROFESSOR: Stephanie J. Jones

DOCTOR OF MUSICAL ARTS

MUSIC

MELINDA KAY WADE-ENGLISH

DISSERTATION: Beethoven's Leonore No. 3 and Symphony No. 4: An Analytical Comparison of Two Adagios and Their Validity as Flute Audition Excerpts MAJOR PROFESSOR: Lisa Garner Santa

DOCTOR OF PHILOSOPHY

AGRICULTURAL AND APPLIED ECONOMICS DONNA MARIE MITCHELL

DISSERTATION: Potential Impacts of Climate Change on Agricultural Production in Uzbekistan MAJOR PROFESSOR: Phillip Johnson

ABBES TANGAOUI (In absentia)

DISSERTATION: Feasibility Study of a Multiproduct Refinery in West Texas From Using Cotton Gin Waste MAJOR PROFESSOR: Michael Farmer

YE WANG (In absentia)

DISSERTATION: The Effects of Aquifer Hydrology on Groundwater Use, Crop Choice, and Technology Adoption MAJOR PROFESSOR: Chenggang Wang

ANIMAL SCIENCE

PAUL RANDALL BROADWAY

DISSERTATION: Determining the Prevalence and Antimicrobial Susceptibility of Salmonella Serovars Isolated from U.S. Retail Ground Pork MAJOR PROFESSOR: J. Chance Brooks

ARLENE GARCIA-MARQUEZ

DISSERTATION: Loading and Unloading of Weaning and Finishing Pigs and Long Distance Transportation of Weaned Pigs: Impact on Welfare

MAJOR PROFESSOR: John McGlone

JERILYN ELENA HERGENREDER

DISSERTATION: Growth Promotant Supplementation Alters Live Performance and Carcass Characteristics while Impacting Cellular Metabolism, Gene Expression, and Protein Synthesis MAJOR PROFESSOR: Bradley J. Johnson

JENNIFER NICOLE MARTIN

DISSERTATION: Antioxidant Incorporation Influences the Shelf-life and Ouality of Overwrap Packaged Ground Beef Stored in a High-Oxygen Master Package before Retail Display MAJOR PROFESSOR: J. Chance Brooks

SE JIN PARK (In absentia)

DISSERTATION: Effect of Different Dietary Amino Acids and Zinc Amino Acid Chelates on the Performance, Gut Morphology, Immune Response and Meat Quality of Broiler Chicks MAJOR PROFESSOR: Leslie D. Thompson

AMANDA RAE PEPPER-YOWELL (In absentia)

DISSERTATION: The Role Docosapentaenoic Acid Omega-3 Plays in Controlling Lipid Metabolism and Inflammation Associated with Obesity, Atherosclerosis, and Neurodegenerative Disease

MAJOR PROFESSOR: Michael Ballou

BIOLOGY

COURTNEY A. THOMASON

DISSERTATION: An Experimental Approach to Uncovering the Consequences of Parasite Co-infection in Peromyseus MAJOR PROFESSORS: Richard Strauss and Amy Pedersen

BUSINESS ADMINSTRATION

ALIN SIMION TOMOIAGA (In absentia) DISSERTATION: Statistical Methods in Genomic Pathway Analysis MAJOR PROFESSOR: Peter H. Westfall

CHEMICAL ENGINEERING

LAKSHMI MUTHU KUMAR (In absentia) DISSERTATION: Computation Study of Cellooligosaccharide Adsorption/desorption Characteristics from Cellulose Crystal Surface during Enymatic Hydrolysis MAJOR PROFESSOR: Rajesh Khare

LAN MA

DISSERTATION: Design of a Continuous-flow, Immobilized-cell Fermentor System for Production of Bioethanol MAJOR PROFESSOR: Ronald C. Hedden

TIMOTHY M. SPINNER (In absentia)

DISSERTATION: Performance Assessment of Multivariate Control Systems MAJOR PROFESSOR: Ragunathan Rengaswamy

XIN ZHANG

DISSERTATION: Fabrication and Characterization of Micro- or Nano-Scale Organic Energetic Materials MAJOR PROFESSOR: Brandon L. Weeks

HAOYU ZHAO (In absentia)

DISSERTATION: Noanoconfined MMA Polymerization and Structural Recovery in Ge-Se Glasses MAJOR PROFESSOR: Sindee L. Simon

MAJONT NOI EJJON. SINGLE E.

CHEMISTRY

YUNLI HU

DISSERTATION: Development of New Analytical Methods Enhancing the Sensitive Detection and Quantification of N-glycans Derived from Biological and Clinical Samples MAJOR PROFESSOR: Yehia Mechref

RUI SUN

DISSERTATION: New Developments and Applications of Direct Dynamics Simulations for Gas Phase Reactions MAJOR PROFESSOR: William L. Hase

CIVIL ENGINEERING

JIE DING (IN ABSENTIA)

DISSERTATION: Extreme Response and Fatigue Damage Analysis of Wind-excited Structures Considering Non-Gaussian Load Effects MAJOR PROFESSOR: Xinzhong Chen

CLINICAL PSYCHOLOGY

KATRINA LAINE COOK

DISSERTATION: Effects of Evidence-based Parent Training on the Adolescent Mother-Child Relationship MAJOR PROFESSOR: Joaquin Borrego

JANINA MAYEUX

DISSERTATION: PTSD Symptoms and Risk Recognition Deficits in the Sexual Revictimization of Female CSA Survivors MAJOR PROFESSOR: Catherine Epkins

COMPUTER SCIENCE

EDUARDO ANDRÉS COLMENARES DÍAZ

DISSERTATION: Improving Hardware Performance via Non-blocking Collective Communications and Computation Reordering for All-Pairs Shortest Path Computation on the Cell Broadband Engine Processor MAJOR PROFESSOR: Yu Zhuang

XIAOZHEN XUE (In absentia)

DISSERTATION: Statistical Analysis on Faults Localization MAJOR PROFESSOR: Akbar Siami Namin

COUNSELOR EDUCATION

MELISSA M. GAA

DISSERTATION: Moral Development, Counseling Self-efficacy, and Counselor-in-training Sexual Orientation Counseling Competencies MAJOR PROFESSOR: Brett Hendricks

CURRICULUM AND INSTRUCTION

JOHN ROBERT MIDDLETON

DISSERTATION: New Science Teacher Identity Development in a Texas Disciplinary Alternative Disciplinary Education Program MAJOR PROFESSOR: Patricia Patrick

STEPHANIE RENEE TALLEY

DISSERTATION: Under Construction: An Autoethnographic Study of a Novice Teacher and Her Professor

MAJOR PROFESSOR: Sally McMillan

EDUCATIONAL PSYCHOLOGY

KRISTIN PARNELL CAMPOS

DISSERTATION: Pairing Physical Activity and Counseling: A Self-management Intervention to Improve On-task Behavior MAJOR PROFESSOR: Tara Stevens

ELECTRICAL ENGINEERING

ANITHA SARAH SUBBURAJ

DISSERTATION: Modeling and Analysis of Grid Connected Battery with Renewable Sources MAJOR PROFESSOR: Stephen Bayne

ENGLISH

JOSEPH MICHAEL JUSTICE

DISSERTATION: Gleaning: A Collection of Short Stories MAJOR PROFESSOR: Jill Patterson

KELLYANNE URE

DISSERTATION: Realism, Sensation, and Serialization in Victorian Middle-class Magazines MAJOR PROFESSOR: Marta Kvande

ENVIRONMENTAL TOXICOLOGY

VINITKUMAR DHANESHPRAKASH SINGH DISSERTATION: Nonwoven Sorbent Products MAJOR PROFESSOR: Seshadri Ramkumar

UDAY TURAGA (In absentia)

DISSERTATION: Production and Characterization of Poly (Vinyl Alcohol) Nanowebs for Biomedical Applications MAJOR PROFESSOR: Seshadri Ramkumar

SARAH JEAN WEBB

DISSERTATION: Establishment, Immortalization, and Toxicological Applications of Primary Skin Fibroblasts from Three Sea Turtle Species MAJOR PROFESSOR: Celine A.J. Godard-Codding

MORGAN MARIE WILLMING

DISSERTATION: Effects of Environmentally Realistic Daily Temperature Fluctuations on Contaminant Toxicity in Aquatic Ecosystems MAJOR PROFESSOR: Jonathan D. Maul

EXPERIMENTAL PSYCHOLOGY

JAMES L. CAZARES

DISSERTATION: When Doing What Feels Right Turns Out Poorly: Regulatory Fit and Emotional Responses to Bad Outcomes MAJOR PROFESSORS: Jessica Alquist and Jeff T. Larsen

ELIZABETH A. SCHMIDLIN (In absentia)

DISSERTATION: Can This Robot Pass Through That Aperture? Learning to Make Judgments for a Tele-Operated Robot MAJOR PROFESSOR: Keith S. Jones

FAMILY AND CONSUMER SCIENCES EDUCATION ERICKA C. HENDRIX

DISSERTATION: Assessing Student Stress in Clinical Laboratory Science Programs: Online Versus Face-to-Face MAJOR PROFESSOR: Karen L. Alexander

FINE ARTS

GREGORY LEE CHAMBERS

DISSERTATION: The Head of Orpheus: Signification and the Operatic "Voice" in Twenty-First-Century Eastern Africa MAJOR PROFESSOR: Christopher J. Smith

LEOBARDO GUERRERO RAMIREZ

DISSERTATION: A Rediscovery of Ernst Widmer's Kosmos Latinoamerico: An Analysis of its Cross-cultural Influences, Pedagogical Purpose, and Performance Approaches MAJOR PROFESSOR: Carla Davis Cash

PAGE KATHRYN PETRUCKA

DISSERTATION: Rewriting the Single Woman's Narrative in Two Original Scripts: A Professional Problem MAJOR PROFESSOR: Norman A. Bert

GEOSCIENCES

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HIGHER EDUCATION-HIGHER EDUCATION RESEARCH

MATTHEW KEVIN DUCATT

DISSERTATION: Case Study Analysis of College Union Employment as a Source of Student Learning and Self-Efficacy Development MAJOR PROFESSOR: Stephanie J. Jones

ZANE S. REIF

DISSERTATION: Building Community through Physical Space: A Visual Ethnography of College Union Utilization by Community College **Transfer Students**

MAJOR PROFESSORS: Stephanie J. Jones and Stacy A. Jacob

HISTORY

SARAH ELIZABETH MYERS

DISSERTATION: "A Weapon Waiting to be Used": The Women Airforce Service Pilots of World War II

MAJOR PROFESSOR: Julie Willett

HOSPITALITY ADMINISTRATION

POU-WEN CHANG (In absentia) DISSERTATION: Toward an Entrepreneurship Typology of Bed and Breakfasts in Taiwan MAJOR PROFESSOR: Jingxue Yuan

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DISSERTATION: Back to Reality: A Study of Reality Television Tourism MAJOR PROFESSOR: Lynn Huffman

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REBECCA ERIN KOSTINA-RITCHEY

DISSERTATION: A Narrative Inquiry of the Portrayal of Adoptive Parent Attributions in Children's Literature about Chinese-US Adoptive Families

MAJOR PROFESSOR: Jacki Fitzpatrick

JENNIFER RUTH ROJAS-McWHINNEY

DISSERTATION: The Negotiation of Parenting Beliefs by Mexican-American Mothers and Fathers

MAJOR PROFESSOR: Nancy Bell

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INTERIOR AND ENVIRONMENTAL DESIGN HESSAM GHAMARI

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MICHELLE CORINNE PINSON

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LAND USE PLANNING MANAGEMENT AND DESIGN

LIONEL JOSEPH PLUMMER (In absentia) DISSERTATION: An Examination of Hydrologic Restoration Efforts for Wetland Mitigation Banks

MAJOR PROFESSOR: Robert Cox

MARRIAGE AND FAMILY THERAPY

KAITLIN ROSE LECKIE

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JEEHEE SUNG

DISSERTATION: Meaning in Illness, Patient Satisfaction with Care, Use of Care, and Health Outcomes with Cancer Survivors MAJOR PROFESSOR: Anne M. Prouty

MASS COMMUNICATIONS

DUSTIN ANDREW HAHN

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DOUGLAS L. MENDENHALL (In absentia)

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DISSERTATION: Local Orthogonal Polynomial Expansion and Empirical Saddlepoint Approximation for Density Estimation MAJOR PROFESSORS: Alex Trindade and Igor Volobouev

MECHANICAL ENGINEERING

XIANWEN ZHANG

DISSERTATION: Synthesis, Growth Mechanism and Optical Properties of YBO, -based LEDs Phosphors

MAJOR PROFESSOR: Jharna Chaudhuri

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KEELY RENEE HAWKINS

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PETROLEUM ENGINEERING

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BRENDAN ROBERT KELLY

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CASSANDRA MARIE PLANK

DISSERTATION: Effect of Light Environment on Methoxypyrazine Content of Cabernet Sauvignon MAJOR PROFESSOR: Edward Hellman and Thavne Montague

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DISSERTATION: Nothing to See Here: The Impact of Far Right European Parliament Election **Results on European Politics** MAJOR PROFESSOR: Frank Thames

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SPECIAL EDUCATION

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DISSERTATION: Training Pre-Service Teachers to Implement Instructional Components of Early Intensive Behavioral Intervention via Telemedicine and In-Vivo Instruction MAJOR PROFESSOR: David M. Richman

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MAJOR PROFESSOR: Kelli Cargile-Cook

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DISSERTATION: Teaching, Social, and Cognitive Presence in Written Conversation: An **Exploration of Online Graduate Communities** of Inquiry MAJOR PROFESSOR: Fred Kemp and Craig Baehr

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BACHIT BAVINDRA MATHUR

DISSERTATION: Technical and Economic Analysis of Lidar-enhanced Proactive Turbine Blade Pitch Control MAJOR PROFESSORS: Andrew H.P. Swift and Jennifer A. Rice

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SOCIOLOGY

MORGAN BREANN JOHNSON AMBER DYANN THOMPSON

THESIS: Social Policy, State Demographics and Social Change

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CURRICULUM AND INSTRUCTION

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JOANN REAGAN WRIGHT THESIS: Work and Life Balance Experiences of Female Professional Staff Members in Higher Education: A Qualitative Case Study

INSTRUCTIONAL TECHNOLOGY

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THESIS: The Impact of Socioeconomic Status on Band and Chorus Contest Ratings

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THESIS: Curricular Practices and Instructional Materials in Select Texas Middle School Band Programs

MASTER OF PUBLIC ADMINISTRATION

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MASTER OF SCIENCE

AGRICULTURAL AND APPLIED ECONOMICS KYLE JUDSON GRAVES

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THESIS: Determinants of Futures Price Volatility of Storable Agricultural Commodities: The Case of Cotton

TRAVIS RYAN McCALLISTER

THESIS: Analysis of Benefits of Rainfall Index-Annual Forage Insurance for Winter Stocker Cattle Producers in Texas and Oklahoma **PRAVEEN SAPKOT**

AGRICULTURAL COMMUNICATIONS

SOFIA BRIZUELA OBANDO

THESIS: Costa Rican Consumer Preferences for Cattle Feeding and Management Systems CAILEE RENEA GILBREATH

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THESIS: Planting Pixels: An Exploration of Tutorials in Selected Farming Simulator MALLORY JADE NEWSOM JACY MCK PROCTOR

AGRICULTURAL EDUCATION

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THESIS: Stakeholders' Perspectives of the Essential Skills for Beginning Agricultural Science Teachers: A Delphi Approach HILLARY BLANCHE FINCK JONATHAN J. MACIEL (In absentia) WILLIAM CHANCE PARTEN TATIANA SILVA RICHARDS (In absentia)

ANIMAL SCIENCE

JESSICA BAGGERMAN

THESIS: Role of Encapsulated Amino Acids on Skeletal Muscle Growth and Development in Feedlot Steers

WILLIAM CLAY BURSON

THESIS: Effects of Zilpaterol Hydrochloride on Mobility, General Animal Well-Being and the Thermoregulatory Response of Feedlot Steers and Heifers during Moderate Heat Stress **BLAINE EVANS CORLISS**

THESIS: The Influence of Beef Quality Characteristics on the Internalization and Thermal Susceptibility of Shiga Toxin-Producing *Escherichia coli* (STEC) in Blade-Tenderized Beef Steaks

SOSSI MARIANNE IACOVIDES

THESIS: Cryopreservation of Equine Semen with a Mechanical Control Rate Freezer

TANNER RONALD SCHMIDT (In absentia) THESIS: Response to AminoGain® Supplementation in Beef Steers is Not Influenced by Dietary Energy Level During the Growing or Finishing Phase

MELISSA CATHERINE TABKE (In absentia) THESIS: Effects of Tannic Acid (Bypro®) on Growth Performance, Carcass Characteristics, Apparent Total Tract Digestibility, Fecal Nitrogen Volatilization, and Meat Lipid Oxidation of Steers Fed Steam-Flaked Corn Based Finishing Diets

LONI DENISE WOOLLEY

THESIS: Evaluation of Objective Beef Juiciness Measurement Techniques and Their Relationships to Subjective Taste Panel Juiciness Ratings

APPLIED PHYSICS

NOUF JABER H. ALHARBI (In absentia) THESIS: Fourier Plane Imaging Microscopy GANGA SEPALI JAYARATHNA THESIS: Transition Dynamics for Muonium Acceptor States in Silicon Germanium Alloys

ATMOSPHERIC SCIENCE

AARON JACOB HILL (In absentia) THESIS: Mesoscale Data Assimilation and Ensemble Sensitivity Analysis Towards Improved Predictability of Dryline Convection

BIOENGINEERING ANNAMARIA SLAVEN

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PATRICK LYNN DENNIS (In absentia) THESIS: A Fluorescent DNA Probe for the Detection of Telomerase in Cancer Cells

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THESIS: A Study of the Multiradical Nature of Graphene as Affected by the Total Spin State, Modeled by Acenes and Periacenes

JIAN LUO

THESIS: Applications of Chiral N-Phosphinyl Auxiliaries

WEI MA

THESIS: Synthesis and Photophysical Studies of Novel Water-Soluble Cu(I) Penanthroline Mixed-Ligand Complexes Containing 1,3,5-Triaza-7-phosphaadamantane

DUJUAN MENG

THESIS: Reorientation Dynamics of Methyl Methacrylate and Nanoconfinement Effects Studied by Optical Kerr Effect Spectroscopy TIANJIAO YANG

THESIS: Enhanced Sensitive MS Analysis of Sulfated Glycans

ENVIRONMENTAL DESIGN SHAIMA SHAFQAT SHARIF

ENVIRONMENTAL TOXICOLOGY

KAYLA ELISE CAMPASINO (In absentia) Thesis: Sea Turtle Organotypic Culture: Viability and Suitability for Toxicity Testing AARON GARNER CONTI (In absentia)

THESIS: Survey of West Nile Virus Infection in Quail from the Rolling Plains and Surrounding Ecological Regions

EXERCISE AND SPORT SCIENCES

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THESIS: A Correlational Meta-Analysis of the Interaction Between Achievement Goals and Self-Determination Theory in Sport, Exercise, and Physical Education SEAN RANDALL MESSICK VICTORIA ASHLEY MURDOCK PHILIP NATHAN PIKE JONATHAN SCOTT SIDES RICHARD B. TAYLOR (In absentia)

FAMILY AND CONSUMER SCIENCES EDUCATION

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GEOSCIENCES

CHRISTOPHER ANDREW TREAT

THESIS: Middle Pennsylvanian Conodonts of the Southern Sangre de Cristo Mountains, New Mexico

RACHEL BARTLETT WEISS

THESIS: Identification of Magma Compositions Using Trace Element Partitioning in Augite from the Chetco Complex, Josephine Ophiolite and Grayback Pluton Located in the Klamath Mountains, Oregon and the Implications for Tectonic Setting

HORTICULTURE

TRICIA COX (In absentia) NATALIE DARLENE DHANOOLAL RUBIO (In absentia) THESIS: Factors that Influence Students' Attitudes toward Garden-based Programs

HOSPITALITY AND RETAIL MANAGEMENT

NICHOLAS JAMES CAPODAGLI JANGWOO JO CRYSTAL DENISE MIRELES MACKENZIE NICOLE MURRAY ELIZABETH LAUREN SCHULTZ

KELSI NICOLE SHUEY

THESIS: The Effects of Discount Level and Scarcity on the Perceived Product Value in E-mail Advertising

CAROLINE LEE TRAEGER

THESIS: The Effect of Cause-Related Marketing Advertisements on Consumer's Attention and Approach Behavior: Using Eye-Tracking Technology

INTERDISCIPLINARY STUDIES

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MANAGEMENT INFORMATION SYSTEMS VENKATA SUBRAHMANYAM AMIRAPU SONALI NANDLAL DIGWAL KEERTHANA GAJARAJAKUMAR ABODH SHARAD GAWANDE (In absentia) WENJUN JIANG AKSHAY PRAKASH KAMBLE (In absentia) INDRA REDDY MALLELA SAI KRISHNA MUNIGANTI SUHAS SURYABHAN PATIL ROHIT KISHORE RAMTEKE NINA SEELAM REDDY MOHIT SACHDEVA OMKAR DEEPAK SAWANT

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THOTAHEWAGE MIHIRI MADUSHANI DE SILVA

THESIS: Dynamics of a Lotka-Volterra Competition Model with Allee Effects and Stocking

SANATH DARSHANA KAHAGALAGE

THESIS: Optimal Eye and Head Movement Control Using q-Parametrization

JOSHUA SPENCER MAYER

THESIS: Multivariate Extension to the Exponentiated Weibull Distribution with Analysis of Confidence Regions ANNA KRYLOVA CAHIT POLAT GUOYUAN ZHANG

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PHYSICS

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THESIS: Oil Sorption Mechanism by Natural Resources

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PLANT AND SOIL SCIENCE

ANUSHA SHAYAMALEE EPITAWATHTHA ABEYSINGHE THESIS: Cotton Fabric Funcionalization to Impart Wrinkle Free Properties CODY J. BYARS (In absentia)

THESIS: Direct Measurement of Infiltration Through a Playa Wetland Using Automated Double Ring Infiltrometers

WILLIAM MARSHALL HAMILTON (In absentia) THESIS: Maximizing the Symbiosis of Tuber lyonii and Carya illinoinensis

RUVINI WASANTHIKA MATHANGADEERA

THESIS: Evaluating the Impact of Fiber Processing on Cotton Fiber Tensile Properties BENJAMIN PATRICK MURPHY (In absentia)

SOIL SCIENCE

COREY JAY BRYANT

THESIS: Comparison of Two Satellite Imaging Platforms for Use in Land Use/Land Cover Classification in Agricultural Regions

STATISTICS

T M DHANAMALEE KANCHANA BANDARA

THESIS: Modeling and Prediction of Wind Power Data

JOSHUA SPENCER MAYER

THESIS: Multivariate Extension to the Exponentiated Weibull Distribution with Analysis of Confidence Regions

RAHAB H. MOHAMED (In absentia) MEICHUANG WU (In absentia) HAIBO ZHANG (In absentia)

WILDLIFE, AQUATIC, AND WILDLANDS

SCIENCE AND MANAGEMENT QINGMAN CHEN (In absentia)

THESIS: Reproductive Behavior and Mating System of Spotted Seatrout *Cynoscion nebulosus*

RYAN MATTHEW DEVORE (In absentia) THESIS: Population Dynamics and Habitat Use by Elk (*Cervus elaphus*) at Bosque del Apache National Wildlife Refuge, New Mexico, USA

RACHEL MARIE GRANBERG (In absentia)

THESIS: Effects of Land Management Practices on Texas Horned Lizards (*Phrynosoma cornutum*) in Central Texas

KRISTEN M. LINNER

THESIS: Assessing the Influence of Wind Turbines and Land-use on Mortality Risk of Avian Species on the Llano Estacado with Emphasis on Birds of Prey

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VAMSHI KRISHNA BODDUNA SUSAN MARION GERMANY PAUL JOSEPH GIANY JORDAN GLEN GIBBS YUE LI THESIS: Iron-Impregnated Nanosized Silica and Alumina: Implications for Contaminant Transformation KEVIN MORTEZA SEDDIGHZADEH SANTIAGO SOTO RANDALL ALLEN SPEARS ANDREW RYAN TERRY

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THESIS: Management of Workflows Using Function Representations LAKHAN JHAWAR NEEL JIKESH PATEL (In absentia) JONATHAN MATTHEW RODRIGUEZ POOJA SAMPELLY AUSTIN JOSEPH WHITTINGTON THESIS: Preference Relations in CR-Models: An Inference Engine for CR-Prolog DI WU (In absentia)

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RAKESH BOJJA CARLOS DE NIZ PEREZ NEGRON NADINE ESTERMANN THESIS: Design, Build, and Test of Via Test and Reliability Structures to Determine Design Marginalities in an Established Semiconductor Process AKHIL LAKSHMESH GOVINDAPPA (In absentia) VINAY KAMINENI MITCHELL DWAIN KELLEY (In absentia) THESIS: Evaluation of Advanced Silicon Carbide Half-Bridge Modules SUDEENDRA KOIRAM SHANKAR **KEVIN M. MATHEW** CHANDRAKANTH RENDUCHINTALA SAPNA UCHANGI SURESH MOHAN UPASE VENKATESWARA RAO VEMURI (In absentia)

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MUSIC

JOSEPH CHARLES BYBEE JESSE DAVID GORE PRESTON OLEN LOVE III HAILEY ANNE STOCKTON ANDREW STEVEN WARD

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ART

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RECEPTIONS AND OTHER CEREMONIES

INDIVIDUAL COLLEGE RECEPTIONS

Immediately After Commencement Ceremony

College of Agricultural Sciences and Natural ResourcesAnimal and Food Sciences Building RotundaCollege of ArchitectureArchitecture GalleryCollege of Arts and SciencesFoyer Area of Room 104, Holden HallJerry S. Rawls College of BusinessMcCoy Atrium, 1st Floor of Rawls College of BusinessCollege of EducationSecond Floor Lobby, College of EducationEdward E. Whitacre Jr. College of Engineering104 Livermore CenterCollege of Media and CommunicationMatador Room, Student Union BuildingCollege of Visual and Performing ArtsRotunda, Holden HallUniversity StudiesRed Raider Lounge, Student Union BuildingWind EnergyRoom 107, National Wind Institute

Please Note: The Graduate School will distribute diplomas in the City Bank Room of the United Supermarket Arena immediately after the commencement ceremony.

OTHER CEREMONIES

Friday, December 12, 2014 Army ROTC Military Commissioning | 10:00 a.m., Llano Estacado Room, Student Union Building

Saturday, December 13, 2014

Air Force ROTC Military Commissioning | 3:00 p.m., Escondito Theatre, Student Union Building

CANDIDATES FOR MILITARY COMMISSIONS

The following student is being commissioned as a Second Lieutenant in the United States Air Force: JOSEPH BLYTHE MALONEY The following student is being commissioned as a Second Lieutenant in the United States Army Reserve: NICOLETTE CARMELLA LERRO The following student is being commissioned as a Second Lieutenant in the United States Marines: RYAN CODY SULLIVAN

ACADEMIC DRESS AND PROCESSION



MASTER'S ROBE: Velvet facing around the neck corresponds to color representing the field of study; hood lining represents the colors of the institution that conferred the degree.

earing academic dress at commencement ceremonies dates from the early history of the oldest universities created during the twelfth and thirteenth centuries. Because educated people were almost always of the clergy, the black gown is an adaptation of the "cope," a long mantle or cloak of silk or other cloth worn by church dignitaries in processions and on other occasions. The long gown and cowl (similar to the academic hood of today) were worn by priests and monks for warmth in the cold medieval buildings.

In the early centuries, a great diversity of color and style of cap, gown, and hood appeared in different universities of Europe. The European custom of wearing academic dress was later introduced at American colleges. Not until after 1895 was a uniform academic code of dress adopted by most U.S. colleges and universities. Today, the black robe, hood, and cap are worn at most institutions of higher learning. Some institutions have authorized doctoral gowns in colors other than the customary black.

The gowns used in American academic ceremonies vary according to the highest degree awarded to the wearer. Usually the bachelor's robe has long pointed sleeves and the master's has oblong sleeves, square at the end with a slit at the elbow. The doctoral gown is a more elaborate robe faced down the front with velvet and across the bellshaped sleeves with three bars of velvet. The velvet facing and bars may be of the color distinctive to the field of study.

The doctoral hood has side panels and is slightly longer than the one worn for the master's degree. The color used in the velvet border of the hood indicates the field of study. The velvet border is widest on the doctor's hood, and the colors of the lining indicate the college or university that conferred the degree. For example, those who have



DOCTORAL ROBE: Velvet facing on front of robe and three bars on sleeve correspond to color representing the field of study; hood lining represents the colors of the institution that conferred the degree.

received advanced degrees from Texas Tech University wear hoods lined with red and black.

The Oxford—the so-called mortarboard—is black and has a long tassel fastened to the center. The tassel is usually worn with the pendant over the left front of the cap. Different colored tassels are often worn on the bachelor's and master's caps to indicate the type of degree. The tassel on the cap of the doctoral candidate, except for professional degrees, is either gold or black. The doctoral degree holders may also wear the velvet tam with a gold tassel.

Candidates for the undergraduate degree will wear the tassel on the right side of the cap at commencement. After the degrees have been conferred, baccalaureate degree recipients will turn the tassel to the left side of the cap, thus showing that they are now graduates. Those graduates who have the official Texas Tech Alumni Association class ring are invited to turn their rings at this time.

Candidates wearing red cords have earned the Latin designations of *cum laude*, *magna cum laude* or *summa cum laude* based on a minimum 3.5 cumulative grade point average. Candidates wearing kite-shaped medallions are Honors College graduates earning a minimum of 24 hours of Honors coursework. Medallions with red ribbons indicate a notation of "With Honors" (non-thesis) and gold ribbons indicating a notation of "With Highest Honors" (thesis).

Phi Beta Kappa students may wear their membership key as well as the society's dark blue honor stole and/or pink and blue honor cords. Members of Phi Kappa Phi, Mortar Board, and other honor societies may likewise display their societies' medallions and honor cords. Texas Tech University has five university-wide honoraries: Golden Key, Mortar Board, Omicron Delta Kappa, Phi Beta Kappa, and Phi Kappa Phi.

COLORS REPRESENTING FIELDS OF STUDY

The following is a list of colors established by the Intercollegiate Code representing departments of learning and fields of study.

Maize | Agriculture

Blue-Violet | Architecture White | Arts, Letters and Humanities Drab | Business Administration Lilac Dentistry Copper | Economics Light Blue | Education Orange | Engineering Brown | Fine Arts Russet Forestry Maroon | Human Sciences Crimson Journalism Purple | Law Lemon | Library Science Green Medicine Pink | Music Apricot | Nursing Silver Gray | Oratory (Speech) Olive Green | Pharmacy Dark Blue | Philosophy Sage Green | Physical Education Peacock Blue | Public Administration Salmon Pink | Public Health Gold-Yellow Science Citron | Social Work Scarlet | Theology or Divinity Gray | Veterinary Science

HONOR CORDS / MEDALLION

The following is a list of honor cords/medallions issued by colleges.

Agricultural Sciences & Natural Resources | Green Architecture | White and Gold Arts and Sciences | Royal Blue Business Administration | Royal Blue and Gold Education | Jade Green and Violet Engineering | Orange Honors | Honors Medallion Human Sciences | Maroon Media and Communication | Crimson University Programs | Red Visual and Performing Arts | Brown Wind Energy | Blue and Green



UNDERGRADUATE ROBE: A red stole displaying the Double T and seal of the university distinguishes students receiving baccalaureate degrees. Degree candidates wearing red cords will graduate with honors designations based on a minimum 3.5 GPA.

TEXAS TECH COMMENCEMENT ANNOUNCEMENTS

GRADUATE PHOTOGRAPHS

A professional photograher will be taking photos of graduates as they receive their diplomas. You may view and order photos online at www.candidcolorphotography.com. Click on "view proofs" and then "graduations." Images will be posted within 48 hours of the ceremony. Photographers will be available after the ceremony for photos of friends and family with the graduates. Photographers will be located outside the arena near the north parking lot. There is no charge or obligation for having these photos taken.

COMMENCEMENT DVD

The Texas Tech Alumni Association encourages you to order a Texas Tech Commencement DVD to commemorate your achievement. The \$45 purchase also will include a oneyear Texas Tech Alumni Association gift membership. This membership will help you stay connected to Texas Tech. To reserve your copy of today's ceremony, complete and mail an order form, located at one of the tables in each corner of the concourse. Do not leave the forms on the tables. Please mail them to the address on the form. To learn more about the Alumni Association, visit www.TexasTechAlumni.org or call 806.742.3641.

) COLLEGE BANNERS

The banners displayed at Texas Tech University commencement ceremonies are patterned on military, political and trade guild insignia that date back to the Middle Ages and beyond. Known as gonfalons, they most closely resemble the flags created by Italian city states before and during the Renaissance. The Texas Tech University flags were individually designed to display symbols and colors that represent the areas of interest of each unit.

The Faculty Banner displays the university colors, red with black, and features the university seal encircled by the words "Seal of Texas Tech Universi-



ty." The seal was designed by William Ward Watkin, the original campus master planner, in 1924. The shield is a black escutcheon quartered by a red cross, on which are arrayed 10 cotton bolls, symbolic of the importance of cotton to West Texas and representing Lubbock County and

the nine surrounding cotton-producing counties. These symbols also reflect one of the original missions of Texas Technological College: "To provide students with a thorough education in textiles and technical engineering."

The shield features emblems that evoke the university, community, state and nation. In the upper-right quadrant, a book symbolizes religion and academic traditions. A star in the upper-left corner stands for the Lone Star State of Texas. In the lower left a key represents home, and in the lower right the lamp of knowledge indicates the primary mission of Texas Tech University: "To develop and advance knowledge." Above the shield, an eagle, the national bird of the United States, spreads its wings.

Mindful of the claims of all these constituencies, the faculty of the university create, transmit, and preserve knowledge.

The **College of Agricultural Sciences and Natural Resources** was one of the four founding schools of the university in 1924. The college banner was redesigned for use in the December 2005 graduation. Dr. Marvin Cepica, former



dean of the college, developed the design with approval and input from the College Marketing Committee. The background color, maize, was established by the Intercollegiate Code to represent the agricultural disciplines. The design, with a

map of the continent of North America, reflects the global scope of modern agriculture and natural resources management.

The blue-violet background color of the **College of Architecture** is the color



established by the Intercollegiate Code to designate this academic area and is also seen in the velvet border of Architecture master's and doctoral hoods and doctoral gowns. The Ionic column symbol set in a red circle references the traditions

of classical architecture. The banner was designed by Bill Felty, a retired Associate Dean for the College of Architecture.

The blue background color of the **College of Education** banner reflects the light blue color designated for education by the Intercollegiate Code and is also seen in the velvet border of education master's and doctoral hoods



and doctoral gowns. The upper area of the banner carries a school building encircled by the words "College of Education" and "Scholarship, Leadership, Service" to represent the primary roles of the college as a unit dedicated to preparing

teachers and furthering educational scholarship, leadership, and service. The Texas Tech Double T logo appears at the bottom of the banner. The Jerry S. Rawls College of Business banner was designed through a collaborative effort of the staff in the college's Undergraduate Services Center.



The background color of the banner is drab. The central image on the banner is a map of the world centered on Lubbock with the Texas Tech University Double T symbol rising from a focal point in the South Plains. Below are the words "Excellence in a Global Market." The ban-

ner symbolizes the impact of globalization in the modern business environment.

The **College of Arts and Sciences** banner was redesigned in 2014 by



Randy Lacy, unit coordinator in the college, in 2014. Crafted with classical typography and bold lines, the banner replaces the previous college seal with the famous Double T logo. The red and black colors appropriately represent the largest and most

diverse college in the university.

The **Graduate School** banner is blue. Imposed on this background is a white circle within a light blue one. These



circles contain the image of a golden open book and a burning lamp. The open book symbolizes knowledge and the lamp represents a light by which to study. The Graduate School banner was designed by the late Associate Dean Thomas

Langford and Ms. Beth Cain, who was a Graduate School staff member and artist for many years.

The banner of the **Edward E. Whitacre Jr. College of Engineering** features the seal of the college set on a field of orange, the academic color for engineering. The seal of the college, inspired by a 2009 design by chemical engineering student Unwana Essien, is encircled with a border of red, white, and black,



symbolizing the spirit of Texas Tech University and the Red Raiders. The two stars represent the ethical duty of engineers to themselves and society. The four symbols in the center of the seal stand for the foundations of engineering:

• The light bulb, surrounded by a ribbon and questions, represents the inspiration of engineers to answer questions and solve problems.

• The square and globe represent the engineer's work as building blocks for the world.

• The hammer and screwdriver represent the practical application of the engineer's work.

• The atomic figure surrounding the beaker represents the confluence of math, science, and technology in the mind of the engineer.

The **Honors College** banner features a sky blue field onto which is placed a



Administration Building bell towers in dark blue. Superimposed on the silhouette is the Honors College emblem in gold: an open book that transforms into a bird taking flight. This symbol represents how learning stimulates human creativity. At the

silhouette of one of the

bottom of the banner are the words in gold: "University Honors College."

The **College of Human Sciences** banner has a dark brown field with the



name of the college at the top. Underneath and centered on the banner are the words "Improving and Enhancing the Human Condition," which enclose a divided circle. The left side of the circle contains a map of the Western Hemisphere and the right side features three human faces in silhouette, a man, a woman and a child, each of which is a different color. The map represents the connectedness of the global human community, and the diversity of the faces and their ages represent the families and communities served by College of Human Sciences programs. The banner was adapted by former Associate Dean Steven M. Harris from an original symbol created by Dr. Ben Goh, a college faculty member.

The **College of Media and Communication** banner illustrates waves of information emanating from a single point—one voice heard by many. The



banner is white with a crimson background framing waves of information reaching the public. Crimson is the color assigned by the Intercollegiate Code to journalism, the common core subject area of the college. The

white field represents honesty, decency and purity. Beneath the crimson is the name of the college.

The banner for **University Programs** exhibits the colors of Texas Tech with a red background trimmed in black. The



focus of the banner is the silhouette of the Administration Building's bell tower, which is an iconic symbol of Texas Tech. Just as the university is comprised of many parts, University Programs integrates multiple programs from

colleges across the university. The traditional Double T placed in a window of the tower signifies the future that awaits students who complete these programs in preparation for successful careers.

The **College of Visual and Performing Arts** banner is black with a blue drape surmounted by a silver swathe that evokes the creative energy infused in all the arts. The top of the banner features the words "College of Visual & Performing Arts" in silver, linked by a dynamic red ampersand representing



the merging of three departments into the college. Centered in the banner is the college's original award-winning logo designed by the Price Group in 2002, the same year the college was founded. The logo is a circle divided into three sectors, each

representing one of the three units of the college: a blue eye for the School of Art, a red lyre for the School of Music, and a golden spotlight for the Department of Theatre and Dance. All three artistic icons are encased by a circular banner which reads: "Texas Tech University." The shape of the banner was selected through a student competition, and the banner was made by personnel in the Costume Shop of the Department of Theatre and Dance.

ACKNOWLEDGEMENTS

• The commencement music ensemble is comprised of students from the Texas Tech University School of Music under the direction of Prof. Duane Hill, Associate Director of Bands and Director of the Goin' Band from Raiderland. Their participation is funded through the auspices of the Office of the President, Texas Tech University.

• National Residence Hall Honorary assisted with preparing diploma tubes.

• This program was produced by the Office of the Provost in cooperation with the Convocation Committee and the Office of Official Publications at Texas Tech University. Garrett McKinnon, Director; Cheryl Hedlund, Senior Editor.

This program is an unofficial list of December 2014 graduates and should not be used to determine a student's academic or degree status. The actual award of honors reflected on a student's diploma will be determined by the student's final academic average. The university's official registry for conferral of degrees is the student's permanent academic record kept by the Office of the Registrar.

TEXAS TECH TRADITIONS

Who's Sitting on a Horse? (And Why Is He Red?)

Will Rogers was one of the most famous entertainers in America in the 1920s and '30s, and his longtime friend, Amon G. Carter, was Texas Tech's first chairman of the Board of Directors. Rogers donated \$200 for the Texas Tech band to play at the football game against TCU in 1926 because he wanted people "to hear a real band." Then the cowboy humorist donated \$1,500 to buy band uniforms for the trip to Fort Worth. A few years after Rogers perished in a plane crash, Carter presented the statue of Rogers and his horse, Soapsuds, to Texas Tech. Sculpted by 18-year old Electra Waggoner Biggs, the statue is one of four in the nation. Before every home game, the Saddle Tramps wrap "Old Will" with red crepe paper. The statue also has been wrapped in black to mourn national tragedies.





Raider Red or the Masked Rider?

Not every university wants a horse in its stadium, so Texas Tech had to find an alternate mascot prior to the 1971 football season. That was the year the school's athletic conference passed a rule that prevented taking live animals to non-home games. That also was the year Raider Red was born from the imagination of cartoonist Dirk West. Raider Red changes from boots to soft-soled shoes for basketball games, and his student persona is kept a secret as he mingles with the crowds.



The Texas Tech Class Ring

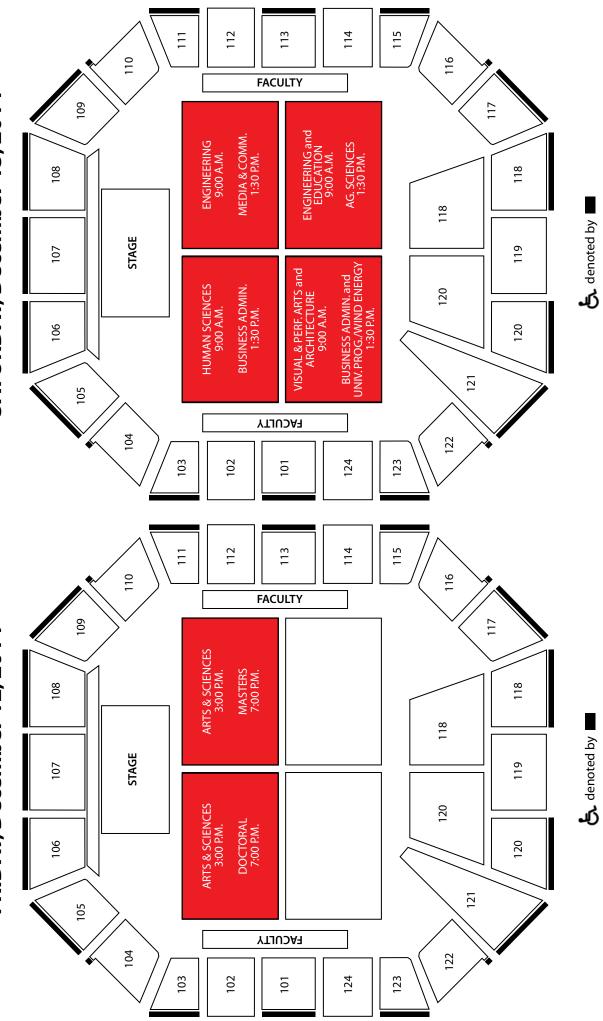
As a constant reminder of their academic achievements and the traditions of Texas Tech University, students proudly wear the official Texas Tech class ring. This bronze sculpture of the official class ring sits next to the Merket Alumni Center. Traditionally the rings are worn with the university name facing inward when the students' hands are extended. After the degree is granted on graduation day, the ring can be turned around so that the name faces outward, a symbol that the new alumnus has a Texas Tech diploma and is ready to face the world. (www.TexasTechRing.org)







SATURDAY, December 13, 2014





CONGRATULATIONS GRADUATES

The first athletic teams of the university were known as the Matadors, a name that reflected the Spanish architectural influence on campus. The change from Matadors to Red Raiders occurred after a Lubbock Avalanche-Journal writer commented on the red uniforms and strong season of the 1932 football team, saying "the Red Raiders from Texas Tech" were the terror of the Southwest Conference. The name caught on and by 1936 the team was renamed the Red Raiders. No changes were ever made to the school song, which was penned in 1930. Page from 1936 Student Handbook courtesy of the Southwest Collection.

WORDS BY R C. MARSHALL STUDENT 1930 THAN TICH COLLEUR VOICE VOICE Fight Mat-	a-dors fo	ADOR r Tech.	J J Songs of	MUSIC BY RRY LEMAIRE HOMASTER AF TECH COLLERE JUCKE WE'll,
Sing to thee	F 8	- B - F	P 1	
	our pri-de.	Fear-less	cham-pion	s ev-er be.
Stand on th	eights of	vic-tor-y.	Strive fo	p r hon-or B F
	Long Irv	e the Ma	at - a - dors	