NUCLEAR ENGINEERING CLASS OF 2017
GRADUATION CEREMONY

May 13, 2017 @ 1:30 p.m.
Park Alumni Center
Centennial Campus

DEPARTMENTAL GREETINGS

Welcome to the graduation ceremony for the Department of Nuclear Engineering at North Carolina State University. We are here to recognize the academic achievements of our graduating students and share in celebrating a major accomplishment in their lives. Today is the day they join an elite group, alumni of the Department of Nuclear Engineering at North Carolina State University.

WELCOME AND INTRODUCTIONS

Dr. Mohamed Bourham for Department Head

PRESENTATION OF NUCLEAR ENGINEERING UNDERGRADUATE DIPLOMAS

Dr. J. Michael Doster, Director of the Undergraduate Program

PRESENTATION OF NUCLEAR ENGINEERING GRADUATE DIPLOMAS

Dr. Korukonda L. Murty, Director of Graduate Program

PRESENTATION OF MASTER OF ENGINEERING GRADUATE DIPLOMAS

Dr. Mohamed Bourham, Director of College of Engineering
Master of Engineering Program

SPEAKERS

Introduction by **Dr. J. Michael Doster**
…**Ryan Walden**, student speaker

Introduction by **Dr. Yousry Azmy**, Professor & CNEC Executive Director
… **Dr. Cecil V. Parks**, Director, Nuclear Security and Isotope Technology Division, Oak Ridge National Laboratory

CLOSING

Dr. Mohamed Bourham

GROUP PHOTOGRAPH & RECEPTION

American Nuclear Society
Alpha Nu Sigma Honors Society Inductees
Top 33% of graduating senior & graduate student class
Distinguished by white cords

Summa cum laude (with highest honor) GPA of 3.75+
Distinguished by a gold sash

Magna cum laude (with high honor) GPA of 3.50-3.74
Distinguished by a silver sash

Cum laude (with honor) GPA of 3.25-3.49
Distinguished by a white sash

BACHELOR OF SCIENCE IN NUCLEAR ENGINEERING

Rebeka S. Adams.....Sugar Grove, NC

Mohamed A. Alashar.....Ajman, UAE

Jasmin M. Alsaied..... Raleigh, NC
Minor in Mathematics, Military Studies, Naval Science

Asish Andhavarapu..... Morrisville, NC

Jennifer R. Baglio.....Raleigh, NC
BA in German Studies, German Science & Technology Concentration; University Scholars Program Completion

Andrew J. Ballard.....Mocksville, NC

Robert Bautista.....Raleigh, NC

Margaret M. Buschmann..... Deansboro, NY
Minor in Mathematics, Military Studies, Naval Science

Taylor J. Capoziello ..... Waxhaw, NC

Zeyu Chen.....Hangzhou, Zhejiang
Minor in Mathematics

Peter W. Ciaccio II.....Asheville, NC

William C. Dawn ..... Raleigh, NC
Minor in Religious Studies

A Gabriel DeCaro ..... Apex, NC
BS in International Studies, BA in International Relations Concentration; Minors in Mathematics & Spanish

Victoria E. Hagopian.....Graham, NC
Minor in Mathematics

Shane C. Henderson.....Smithfield, NC

Nicholas F. Herring.....Greensboro, NC

Matthew T. Ingram.....Asheboro, NC
Minor in Mathematics

Megan T. Isabelle.....Mechanicsville, VA
Minor in French

Jacob D. Kurzer.....Oak Island, NC

Stephen V. Langellotti.....Raleigh, NC
University Scholars Program Completion

Megan A. LoMonaco.....Gilbertsville, PA

Margaret E. Lowe.....Fayetteville, NC
BA in Physics, minor in Mathematics

Zachary D. Morey.....Chapel Hill, NC

Ronald E. Morin.....Marshall, NC
Minor in Mathematics

Joshua K. Morsell.....Raleigh, NC
Minor in Physics

Patrick O'Brien.....Charlotte, NC

Alexander F. Pharr ..... Raleigh, NC
Minors in Chinese Studies & Physics; University Scholars Program Completion

Patrick J. Povinelli..... Waxhaw, NC
Minor in Chinese Studies

Kelsey A. Reamer.....Columbia, SC

Amber D. Robinson.....Mechanicsville, VA
Minor in Physics

Logan J. Sit.....Raleigh, NC

Carl L. Smith.....Wake Forest, NC

Charles W. Tait.....Charlotte, NC
Minors in Computer Programming & Physics

Micah G. Tillman.....Zebulon, NC
Minor in French

Ryan M. Walden.....Raleigh, NC
Minor in Computer Programming

Beau G. Webb.....Spruce Pine, NC
BS in Philosophy

Thomas A. Wilson.....Raleigh, NC

MASTER OF SCIENCE IN NUCLEAR ENGINEERING

Konor L. Frick.....Clifton Park, NY
Title: Coupling and Design of a Thermal Energy Storage System for Small Modular Reactors
Chair: Dr. J. Michael Doster

MASTER OF NUCLEAR ENGINEERING

Michael I. Boyd.....Winston Salem, NC
Title: Determining Best-Fit Model for Cerium Bromide Pulse Shape
Adviser: Dr. John Mattingly

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Samuel J. Cope.....High Point, NC
Title: Preliminary Work toward Rapid Discrimination of Anthropogenic from NORM in Air Samples
Adviser: Dr. Robert Hayes

John C. Ferguson.....Aiken, SC
Title: Research into Modelling of Delayed Hydride Cracking
Adviser: Dr. Jacob Eapen

Cole Manring.....Kernersville, NC
Title: Evaluation of the Thermal Scattering Law for Heavy Paraffinic Molecular Materials
Adviser: Dr. Ayman Hawari

Lorne E. Nix .....Waterbury Center, VT
Title: Design Guidance for the Prevention of light Water Reactor (LWR) Fuel Cladding Fast Fracture
Adviser: Dr. Nam Dinh

Shrey Satpathy.....New Delhi, India
Title: Development of High-Resolution Computational Fluid Dynamics Capabilities for LWR Accident Analysis
Adviser: Dr. Igor Bolotnov

Megan R. Smith.....Hickory, NC
Title: Analysis of a Loop for Fission Product Gas Release and Monitoring at the PULSTAR Reactor
Adviser: Dr. Ayman Hawari

MASTER OF NUCLEAR ENGINEERING (cont'd)

Nina C. Sorrell.....Raleigh, NC
Title: Neutronic Modeling and Validation of TREAT M2 and M3 Calibration Experiments for Benchmark Applications
Adviser: Dr. Ayman Hawari

Kaiyue Zeng.....Puning, China
Title: Influence of Contact Angle on Interface Evolution using Level Set Method
Adviser: Dr. Igor Bolotnov

Anant Singhal.....Luknow, India
Title: Reactor Grade Graphite Simulations Using Molecular Dynamics
Adviser: Dr. Ayman Hawari

DOCTOR OF PHILOSOPHY IN NUCLEAR ENGINEERING

Garrett J. Dean.....Colorado Springs, CO
Title: Inverse Analysis of Irradiated Nuclear Material Gamma Spectra via Nonlinear Optimization
Chair Dr. John Mattingly

Michael A. Fusco.....Raleigh, NC
Title: Multilayer Protective Coatings for High-Level Nuclear Waste Storage Containers
Chairs: Drs. Mohamed Bourham & John Gilligan

Anant Raj.....Kanpur, India
Title: Energy Transport in Low Dimensional Systems: Phonons and Beyond Phonon Descriptors
Chair: Dr. Jacob Eapen

Jonathan L. Wormald.....Apex, NC
Title: Atomistic Modeling of Fission Energy Deposition and Transport in Nuclear Fuel
Chair: Dr. Ayman Hawari

COLLEGE OF ENGINEERING – MASTER OF ENGINEERING

	Concentration
Yisel Andrade Perdomo, Wendell, NC	Interdisciplinary
Mahesh Balasubramaniam, Apex, NC	Electrical Engineering
Subba Bandhuvula, Raleigh NC	Computer Science
Bradley P. Bennett, Clemmons, NC	Industrial Engineering
Adrian E. Buga, Fountain Valley, CA	Industrial Engineering
BlaiR Ellington, Norman, OK	Materials Science & Eng.
Tristan Gibson, Rolesville, NC	Electrical Engineering
Robert Grainger, Burleson, TX	Mechanical Engineering
James Green, Wilson, NC	Industrial Engineering
David J. Gutierrez, Apex, NC	Electrical & Computer Eng.
Amr A. Hamadi, Alexandria, VA	Mechanical Engineering
Michael B. Hill, San Jose, CA	Engineering Management
Amy Hocraffer, Waialua, HI	Industrial Engineering
Felicia Johnson, Chula Vista, CA	Interdisciplinary
Brian J. Koth, Madison, WI	Chemical Engineering
Ratessiea Lett, Huntsville, AL	Interdisciplinary
Serenity McAnallen, Fort Mill, SC	Interdisciplinary
Claire P. McLaughlin, Oak Island, NC	Interdisciplinary
Colby Meador, Reidsville, NC	Industrial Engineering
Mahmoud Metwally, Raleigh, NC	Interdisciplinary
Michael Nordin, FPO, Armed Forces Europe	Interdisciplinary
Benjamin J. Preston, Raleigh, NC	Mechanical Engineering
Navid U. Rahman, Greensboro, NC	Electrical Engineering
Joel A. Salva, Abingdon, VA	Industrial Engineering
Richard Sergo, Raleigh, NC	Industrial Engineering
Christopher Smith, Fuquay Varina, NC	Computer Science
Jeffrey Susser, Cambridge, MA	Mechanical Engineering
Mark A. Takagi, Richland, WA	Computer Science
Jason Wood, Ayden, NC	Industrial Engineering