NORTH CAROLINA STATE UNIVERSITY

SPRING COMMENCEMENT

May 12, 2012

DEPARTMENT OF CHEMICAL AND BIOMOLECULAR ENGINEERING

Graduation Ceremony

Stewart Theatre
North Carolina State University
Raleigh, North Carolina

7 - 8:30PM
DEPARTMENT OF CHEMICAL AND BIOMOLECULAR ENGINEERING
GRADUATION CEREMONY

Saturday, May 12, 2012

Program

7:00 PM  
**Introductory Remarks and Introduction of the Faculty**

*Dr. Peter Fedkiw, Department Head*

**Introduction of Alumni Speaker**

*Dr. Russ O’Dell*

**Remarks by Alumni Speaker**

*Mike Lowder*

**Introduction of Student Speaker**

*Dr. Lisa Bullard*

**Remarks by Student Speaker**

*Kelly Fitzgerald*

**Recognition of Graduates**

8:30 PM  
**Closing**

Faculty and Staff

- Sandra S. Bailey
- Ken Beatty
- Chase L. Beisel
- Kathleen Berding
- Lisa G. Bullard
- Ruben G. Carbonell
- Carol M. Carroll
- Matthew E. Cooper
- Joseph M. DeSimone
- Michael D. Dickey
- Saundra L. Doby
- Angela Efimenko
- Kirill Efimenko
- Peter S. Fedkiw
- Richard M. Felder
- Michael C. Flickinger
- Jan Genzer
- Christine S. Grant
- Keith E. Gubbins
- Carol K. Hall
- Diane F. Harper
- Jason M. Haugh
- Sheila M. Hayes
- Wesley A. Henderson
- Harold B. Hopfenberg
- Robert M. Kelly
- Saad A. Khan
- Shirley Kow
- H. Henry Lamb
- Fanxing Li
- P.K. Lim
- June W. McKoy
- David F. Ollis
- Russ O’Dell
- Gregory N. Parsons
- Steven W. Peretti
- Balaji M. Rao
- Gregory T. Reeves
- Barbara E. Smith
- Richard J. Spontak
- Alison J. Stieglitz
- Orlin D. Velev
- Rajani Verghese
- Phillip R. Westmoreland
- Peggy C. Wilkins
- Hubert Winston
- Ching-Kit Yeung

Student Marshals

Lauren Cagley, Juhi Fernandes, Esther Lee, Brinda Monian, William Mullen

Alumni Speaker – Mike Lowder
Mike Lowder is a native of Albemarle, NC. He earned his BS in Chemical Engineering from NC State in 1978, at which time he accepted employment with Eastman Chemical Company in Kingsport, TN. Mike earned a MBA from East Tennessee State University in 1986. During his 34 years at Eastman he has served in a wide variety of process engineering, operations engineering, project management, and management roles. He was responsible for managing the integration of three major corporate acquisitions and was the Founder and Director of the Eastman Program Office, a small organization of Project Managers that handle special, complex corporate projects. Mike is currently Director of Process Engineering, an organization of approximately one hundred engineers whose mission is to "Turn Chemical Plant Concept into Production Scale Designs". Mike recently completed a term on the Board of Directors of the American Red Cross of Northeast Tennessee. He serves on the Board of Directors of the Engineering and Construction Contracting Association and was Chairman in 2011. Mike is married to Brenda, who works at Eastman in Environmental Affairs; their son Matthew is a mechanical engineer who also works for Eastman.

Student Speaker – Kelly Fitzwater

Kelly Fitzwater is a native of Leonardtown, Maryland. She graduated from St. Mary’s Ryken High School, and attended NC State to pursue a dual-degree program in Chemical Engineering and Paper Science Engineering. While at NC State, Kelly has been active in her sorority, Delta Delta Delta, the University Scholars Program, and the TAPPI student chapter. Kelly is a member of Phi Eta Sigma and the National Society of Collegiate Scholars and was the 2010 North Carolina recipient of the Association of Energy Engineers Scholarship. Her summer experiences include a study abroad trip to Brazil, an internship with Cascades Tissue Group in Rockingham, North Carolina, and an internship with GE Hitachi Nuclear’s New Products Introduction Group in Wilmington, NC. She has also conducted research at NC State for the Department of Forest Biomaterials, identifying the conversion potential of waste lignocellulosic biomass to ethanol. After graduation, Kelly will join GE’s Edison Engineering Development Program, where she will spend her rotations in Wilmington, North Carolina. While working, she will also be pursuing a Master of Nuclear Engineering from NC State.
Doctor of Philosophy Recipients

Eva Kathryn Brown  
Advisor: Dr. Wesley Henderson

Md. Mahmud Hussain  
Advisor: Dr. Balaji Rao

Nimish Gera  
Advisor: Dr. Balaji Rao

Elizabeth Michelle Melvin  
Advisor: Dr. Orlin Velev

Pruthesh Hariharrao Vargantwar  
Advisor: Dr. Richard Spontak

Master of Science Recipients

Shane Travis Di Dona  
Idorenyin Fortune Luke (D)

Timothy Kyle Diehl (D)  
Phillip Ketcham Schoch

Kevin Michael Englestad (D)  
Kevin Daniel Singh (D)

Haoyu Jin  
Robert Howard Zehr (D)

William Stanley Kish (Thesis)  
Binwu Zhao

Graduate Student Accomplishments

• Nimish Gera – 1st Prize, Edward M. Schoenborn Poster Presentation Competition, NCSU (2009); 2nd Prize, Edward M. Schoenborn Oral Research Presentation Competition, NCSU (2010); Finalist, Chemical and Biomolecular Engineering in Graduate Research Symposium for best poster in Engineering, NCSU (2010)

• Md. Mahmud Hussain – Winner of Travel Scholarship in Chemical and Biological Science and Technology conference (2010) and Council for Chemical Research Annual Meeting (2010); 1st Prize winner in Life Sciences category in the 6th Annual Graduate Research Symposium, NCSU (2011); Best poster award at the annual review of the Defense Treat Reduction Agency (2011)

• Elizabeth Michelle Melvin – Chemical and Biomolecular Engineering Graduate Student Association – Vice President (2007-2008); Chemical and Biomolecular Engineering Faculty Search Graduate Student Advisory Board (2007-2008); NCSU Graduate School Dissertation Writing Grant (2011)

• Pruthesh Hariharrao Vargantwar – 3rd Prize, Herman and Myrtle Goldstein Student Paper Competition, AATCC International Conference and Exhibition (2007); 1st Prize, MRS Poster Competition (2010); 3rd Prize, Edward M. Schoenborn Poster Presentation Competition, NCSU (2010); Finalist for AkzoNobel Award Symposium (2011)
Bachelor of Science Graduates

Joseph Kyle Allgood
Ahmad Rabi Amini *** (S)
William Kennon Barringer, Jr.
Benjamin David Bayless *
Matthew Thomas Behrhorst *** (UHP) (V)
Benjamin Philip Bell
Brandon Nicholas Berry (C)
Deonarine Bharrat
Ermias Bizuwork #
Tyler Vance Bolick
Justin Ken Borchers (H)
Marshall Brower Bowden, III *** (UHP)
Billie Jo Bowen
Elizabeth Harden Bowers *** (UHP)
Gordon Paul Brezicki * (C)
David Wesley Brower ***
Dominic Gerard Brown *** (C)
LeAnne Jia-An Brozovskyy ** (S)
Robert George Burke
Mary Jean Burroughs
Christine Marie Carcillo *
William Thomas Carter
Justin Chew # (H)
Amanda Lee Cox
David Andrew Crawford
Bryan Patrick Creviston #
James Tatum Crews *(S)
Justin Derek Crowell #
Brenton-August Daine **
Aaron Mitchell Dancy
Jacob Daniel Davis *
Jonathan Richard Dew *
Deidra Lear Dunn
Sarah Nicole Edwards
Brian Christopher Fanning
Kelly Ann Fitzwater ** (S)
Lisa Kathleen Fondario
Katherine Lee Fontes #
David Chapman Froggatt, IV
Aaron Gray Frye ** (C)
Michael Thomas Garman
Lacey Lynn Gettings *
Andrea Marie Gill *
Benjamin Frederick Gillespie
Brittany Nicole Glatz ** (H) (UHP)
Mary Brandon Goodnight
Matthew Lee Gray (C)
Darci Danielle Hackney *(S)
Ryan Michael Hart
Zachary Thomas Hart
Patrick Lee Hartney #
Calvin William Anthony Haynes
Christopher Lee Helms **
Jennifer Ryan Hinkley
Gregory Paul Hollis
Benjamin Lloyd Huffman ****(S)
Corey Wilfred Hutcheon #
David James Jackson * (C)
Brendan Joel Johnson #
Philip Edward Junk **
Louis Charles Kachulis * (UHP)

Jordan Reynolds Keith *** (H) (V)
Neil Christopher Kern (C)
Daniel Soo Hyun Kim
Siddhartha Kollipara
William Joseph Kornahrens Jr. *** (UHP)
Kaitlyn Tara Leonik
Matthew Thomas Locklear
Maria Catalina Lumi **
Amir Naveed Lyall ** (C)
Amy Leigh Madden **
Andrew Joseph Masten #
Meghan Grace McCann # ** (C) (S)
Sarah Louise McGee *
Amanda Marie Mercer
Wade Timothy Meyers # (C)
Daniel Francis Minkler # ***(S)
Munir Zahir Muhammad (S)
Kazuyuki Namba
Dustin Ryan Nelson *
Anthony Charles Nero
Nga Thanh Thi Nguyen **
Therese An Tuong Nguyen
Alexander Douglas Nied
Declan Graham Nishiyma ** (C)
Jane Roxanne Olsen ***
Emily Brianne Ostrander
Matthew Phillip Ostrowskyy *** (UHP) (V)
Jonathan Philip Painley ** (S) (C)
Evan Garrett Parrish
Jaimin Jayesh Patel *** (UHP)
Heather Marie Pawlicki
Daniel Evan Piephoff *** (H) (UHP) (V) (C)
Thomas Joseph Plante
Dayne A. Plemmons # (H)
Snigdha Gayatri Pongur #
Monty Chadwick Pridgeon
Katie Lynne Quigley *
Hannah Renee Reese *** (UHP) (H)
Taylor Chase Resparc
John David Robinson
Bennett Luke Rouse *
David Matthew Shaner *** (UHP) (V) (C)
Neel-Gopal Sharma
Logan Michael Shearer ***
Brooke Noelle Smith
Chelsea Marie Smith *** (V)
Megan Elizabeth Smithmyer ***
Nicoles Ashley Soliman ** (S)
David Paul Song *
Megan Gabrielle Steely
Andrew Charles Tibbits *** (H) (S)
Edward Philips Tomlinson **
Kevin Matthew Ventura * (S)
Nicholas Matthew Venuti
Adam Douglas Wallace ** (C)
Nathan Daniel Wheeler #
Stephen Evans White
Kimberly Diane Williams * (S)
Brandy Rose Yarbrough
Shu Zhu ***

* Cum Laude
# Summer graduate
C – Cooperative Education Program
S – University Scholars Program
** Magna Cum Laude
UHP – University Honors Program
*** Summa Cum Laude
V – University Valedictorian

Photographs from graduation, including individual photos of each graduate and the class photo, can be ordered at www.JimmyAllenPhotography.com
Student Accomplishments

Ahmad Rabi Amini – Minor in Biotechnology
William Kennon Barringer – Minor in Biotechnology
Benjamin Philip Bell – Minor in Polymer and Color Chemistry
Brandon Nicholas Berry – Minors in Biomannufacturing and Spanish, PDA Southeast Chapter Student Scholar, ISPE officer
Ermias Bizuwork – Minor in Biotechnology
Marshall Brower Bowden, III – Co-founder of the NCSU Biofuel Research and Implementation Club (BRIC)
Billie Jo Bowen – Dawkins Scholar, PotashCorp Scholar
Elizabeth Harden Bowers - Culberson Scholar
David Wesley Brower – Minor in Business Management
Dominic Gerard Brown – Minor in Biomannufacturing, KBI Scholar
LeAnne Jia-An Brozovsky – Minor in Biotechnology
Robert George Burke – Minor in Biomannufacturing
Mary Jean Burroughs – Minor Environmental Toxicology, Caldwell Fellow, CBE Senior Award for Scholarship, Shelton Scholar
Christine Marie Carcillo – Minor in Biotechnology
William Thomas Carter – Minor in Environmental Science
Amanda Lee Cox – Undergraduate Research Symposium winner
James Tatum Crews – Minor in Biomannufacturing, GlaxoSmithKline Scholar
Justin Derek Crowell – Minor in Mathematics
Jacob Daniel Davis – Minors in Biomannufacturing and Military Science, 2nd Lieutenant in the Army Corps of Engineers
Deidra Lear Dunn – Minor in Biotechnology, Chancellor’s Leadership Scholar
Sarah Nicole Edwards – Minor in Biotechnology
Brian Christopher Fanning – BS in Paper Science & Engineering
Kelly Ann Fitzwater – BS in Paper Science & Engineering, Caraustar Industries Scholar, Charbonnier Scholar
David Chapman Froggatt, IV – BS Paper Science & Engineering, Kennedy Scholar, Kemira Scholar, Olsson Scholar, TAPPI Vice President
Lacey Lynn Gettings – US Navy Ensign
Andrea Marie Gill – Carroll Scholar, Smith Scholar, Culberson Scholar
Benjamin Frederick Gillespie – BS Textile Engineering
Brittany Nicole Glatz – BS applied Mathematics
Mary Brandon Goodnight – Minor in Music
Matthew Lee Gray – Minor in Biomannufacturing
Calvin William Anthony Haynes – Minor in Biotechnology
Gregory Paul Hollis – BS Paper Science and Engineering
David James Jackson – Minor in Business Administration
Philip Edward Junk – Eastman Award of Excellence
Jordan Reynolds Keith – AIChE Freshman & Other Sophomore Awards, O’Dell Scholar, CBE Senior Award for Leadership, AIChE President
Siddarthha Kollipara – Minor in Biotechnology
William Joseph Kornahrens Jr. – Minor in Biotechnology, O’Dell Senior Award
Maria Catalina Luna – BS Paper Science and Engineering, Hercules Scholar, TAPPI Treasurer
Amir Naveed Lyall – Minor in Biotechnology
Amy Leigh Madden – Minor in German, Merck Scholar, Alpha Omega Epsilon President
Meghan Grace McCann – Minor in Biomannufacturing
Wade Timothy Meyers – US Navy Ensign
Daniel Francis Minkel – Minor in Physics
Munir Zahir Muhammad – Minor in Physics
Dustin Ryan Nelson – Minor in Biotechnology
Anthony Charles Nero – Minor in Biotechnology
Nga Thanh Thi Nguyen – Minor in Biological Sciences, CBE Senior Award for Citizenship & Service, SWE Vice President
Therese An Tuong Nguyen – Minor in Biotechnology
Declan Graham Nishiyama – Minor in Biotechnology
Jane Roxanne Olsen – Minor in Biotechnology
Emily Brianne Ostrander – Minor in Biotechnology, Collaborative Greek Council President
Matthew Phillip Ostrowski – BS History, Engineering Senior Award for Humanities, Franklin Scholar, Mixon Scholar, NSF Graduate Fellow
Evan Garrett Parrish – US Navy Ensign
Jaimin Jayesh Patel – Minor in Physics, Hardaway Scholar
Heather Marie Pawlicki – US Marine Veteran
Daniel Evan Piephoff – BA Chemistry, Minor in Mathematics, NSF GRFP Fellow, MIT Presidential Graduate Fellow, Omega Chi Epsilon President
Thomas Joseph Plante – Minor in Biotechnology
Dayne Andrew Plemons – Minor in Spanish Language and Literature
Katie Lynne Quigley – Minor in Biomannufacturing
Hannah Renee Reese – Minor in Biotechnology, Astronaut Scholar, Colson Scholar, Smith Scholar
Taylor Chase Resparc – BS Paper Science and Engineering, Cross Scholar
Bennett Luke Rouse – BS English
Chelsea Marie Smith – Minors in Biotechnology and Spanish
Megan Elizabeth Smithmeyer – Minor in Biotechnology, National Starch Scholar, Culberson Scholar
Nicole Ashley Soliman – Minor in Biotechnology
Megan Gabrielle Steely – Minor in Japanese
Andrew Charles Tibbits – Minors in International Studies and Spanish, Carroll Scholar, Smith Scholar, Mauney Scholar
Kevin Matthew Ventura – Minor in Biotechnology, AIChE Vice-President of Industry Relations
Nicholas Matthew Venuti – Minor in Biotechnology
Stephen Evans White – Student Manager Engineering Career Fair
Kimberly Diane Williams – Merck Scholar
Shu Zhu – Chancellor’s Aide, International Delegation Ambassador