NORTH CAROLINA STATE UNIVERSITY

SPRING COMMENCEMENT

May 8, 2009

DEPARTMENT OF
CHEMICAL AND BIOMOLECULAR ENGINEERING

Graduation Ceremony and
Distribution of Diplomas

Stewart Theatre
North Carolina State University
Raleigh, North Carolina

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

Friday, May 8, 2009

Program

7:00 PM  Welcome and Introductory Remarks
Dr. Peter Fedkiw, Department Head

Introduction of the Faculty and Staff and Comments

Introduction of Alumni Speaker
Dr. Russ O’Dell

Remarks by Alumni Speaker
Carlos Gutierrez (BS CHE 1960)

Introduction of Student Speaker
Dr. Lisa Bullard

Remarks by Graduating Senior
Esmeralda Luna-Ramos

Awarding of Diplomas

8:00 PM  Closing

Faculty and Staff

Sandra S. Bailey  Michael Flickinger  Gwen L. Johnson  Steven W. Peretti
Ken Beatty  Jan Genzer  Robert M. Kelly  Bala Rao
Lisa G. Bullard  Christine S. Grant  Saad A. Khan  George W. Roberts
Ruben G. Carbonell  Keith E. Gubbins  Shirley Kow  Richard J. Spontak
Joseph M. DeSimone  Carol K. Hall  H. Henry Lamb  Alison J. Stiegitz
Michael D. Dickey  Diane F. Harper  Jing Leng  Anka Veleva
Saundra L. Doby  Jason M. Haugh  P.K. Lim  Orlin D. Velev
Angela Efimenko  Sheila M. Hayes  June W. McKoy  Rajani Verghese
Kirill Efimenko  Wesley A. Henderson  David F. Ollis  Clarice A. Whitmarsh
Peter S. Fedkiw  Harold B. Hopfenberg  Russ O’Dell  Hubert Winston
Richard M. Felder  Jesse Jur  Gregory N. Parsons  Ching-Kit Yeung

Student Marshals

Elizabeth Butler, Raleigh Davis, Kendall Fitzgerald, Jami Hall, Stephen Morton, and John Petitte
Doctor of Philosophy Recipients

Kathryne Sherlock Auernik
Advisor: Robert M. Kelly
Amit Goyal
Advisors: Carol K. Hall and Orlin D. Velev

Caryn L. Heldt
Advisor: Ruben G. Carbonell
Young Kuk Jhon
Advisor: Jan Genzer

Master of Science Recipients

Valerie E. Combs (Distance Education)
Curtis T. Hallier (Distance Education)
Luke David Johnson (Distance Education)
Christopher James Nabholz (Distance Education)
Alena Polk (Distance Education)
Marion Tracy Watson (Distance Education)
Rui Zhou

Bachelor of Science Graduates

Tracy Lynn Aggers
Marilynn Beth Angell*
William Winter Barnes*** (V)
Aria Mehr Behrouzi
Tabatha Lynn Blalock*
Andrew Scott Boulton
Paul Gaston Bouzigard*
Robert Odell Bradley IV*** (H) (S)
Jessica Ilene Brantley* (S)
Camilla Jin-Hee Bruno-Hymoff
Justin Eric Buckland
Andrew Lee Canton*
Robert Scott Carrico** (H)
Meghan Elizabeth Craven** (S)
Kathryn Elaine Earley
Dacie Elaine Edwards
Justin Randolph Farmer***
Jamie Leigh Forbis#
Richard Cole Garner**
Dane Ashton Grismer***
Mary Michelle Guthrie*
Bridget Elizabeth Hamill*
Madison Ryan Howard**
Andressa Vernalha Hungria** (C)
Rachel Alexandra Hyatt** (S)
Owen Patrick Jacobs** (C)
Shelly Jones Johnson*
Elizabeth Renee Knapp
Maryia Sergeyeuena Krotava
Matthew Moran Lapaire*
Rosemary Khuu Le
Adam Barton Leedy
Esmeralda Luna-Ramos*** (S)
Ryan Edward Mackie**
Matthew Barrington Mahoney
Kalani Michael McKay*
Jawad Parvez Mirza*** (H)
Laura Elise Navolio*
Zachary Matthew Nicholson***
Elizabeth Anne Nieman
Thomas Edward Nyreen
Henryk Edward Orlik*** (V) (S)
Sara Joy Perrin**
Tamara Lynn Robertson#
Corinne Elizabeth Rose*
Sheryl Rae Schmid
Nicole Marie Seabrook* (C)
Kimberly Lauren Shearer** (S)
Susan Marie Short*
Kyle Abraham Smalling
Alexander James Smeraski* (C)
Andrew Thomas Steinhauser
Meagan Frances Stewart*** (UHP)
Una Lyon Stone
Garrett Richard Swindlehurst** (H) (UHP)
Peiwen Thor*** (V)
Trenton Marcus Tovar*** (H)
Sarah Jane Tweed
Jacob Madison Vestal*
Andrew Blake Wallace***
Barbara Jeanne Ward** (S)
Christine Ann Watson*** (H) (S)
Katelyn Bennett Whatley
Ashley Ann Williams***
James Michael Williams***#
Melissa Marie Wood#
Sarah Pope Worden*
Timothy John Wuthenow**

* Cum Laude                  ** Magna Cum Laude                *** Summa Cum Laude
# Summer 2008 graduate       C – Cooperative Education Program    S – University Scholars Program
H – University or Departmental Honors Program    V – University Valedictorian (4.0)

Student Accomplishments

Marilynn Beth Angell – Biomanufacturing Minor, Golden Chain, Caterpillar Scholar-Athlete (Track), ACC Honor Roll
These students served as officers in the American Institute of Chemical Engineers (AIChE) student chapter, Omega Chi Epsilon (National Chemical Engineering Honor Society), Alpha Omega Epsilon (Engineering Sorority), Engineers Without Borders (EWB), Society for Women Engineers (SWE), or the International Society for Pharmaceutical Engineers (ISPE).

Aria Mehr Behrouzi, Robert Odell Bradley, Richard Cole Garner, Bridget Elizabeth Hamill, Rachel Alexandra Hyatt, Jawad Parvez Mirza, Tamara Lynn Robertson, Nicole Marie Seabrook, Kimberly Lynn Shearer, Meagan Frances Stewart, Garrett Robert Swindlehurst, Peiwen Thor
Carlos Gutierrez is the founder of URRC and currently serves as the Company President and CEO. He earned a BS in Chemical Engineering in 1960 from North Carolina State University. Carlos holds several US and foreign patents related to the field of plastics and surface chemicals. He has over 40 years experience in the fields of corporate management, finance and operations from initial business conception, forming strategic alliances and successful implementation with particular emphasis in the chemical synthesis and PET (polyethylene terephthalate) recovery operations.

In 1962 Carlos went to work for Milliken Chemical Corporation in the field of specialty chemical manufacturing. In 1966, he was promoted to Director of Development for the company. Carlos left Milliken in 1974 when he founded Unisphere Chemical Corporation, a company which specialized in the development and manufacturing of surfactants for the textile and cosmetic industries. In 1986, Unisphere Chemicals was sold to Specialty Industrial Products, Inc. so Carlos could concentrate on expanding and commercializing the technology of PET recycling using the company’s proprietary technology. In 1984 he co-founded G&H Industries, Inc, where he managed multiple plants for the DuPont Company. He sold his interest in this business in 1992.

In 1992 Carlos founded URRC (United Resource Recovery Corporation) in order to refine silver and recover PET from X-ray films. The company was awarded the first of many US patents in 1993. Since 1996, he has guided the recycling of PET in the bottle-to-bottle program, and has been successful in the promotion of the URRC technology to build production facilities in Europe, Mexico, and The Philippines. In 2008, URRC formed a joint venture with the Coca-Cola Company to build the largest bottle-to-bottle PET recycling plant in the world. This plant, located in Spartanburg, SC, will have an output of 100 million pounds per year.

Carlos is a member of the Alumni Advisory Board for the Department of Chemical and Biomolecular Engineering. In addition, he serves on the Engineering Foundation Board of Directors.

Carlos married Barbara Hoyle, NCSU ’61, 49 years ago, and they have three daughters: Teresa G. Poplin, BA, USC ’84, Dr. Suzanna G. Davis, Duke University BS ’87, SCMU, MD ’92, Patricia G. Smith, BS ME, NCSU ’93, PSU, MS ’96, and a son John Gutierrez, Esq., USC BA ’86, USC LAW, ’89.
Esmeralda Luna-Ramos has been part of the Wolfpack family ever since her father, a soil scientist, left Mexico in 1988 to obtain his doctorate degree here at NC State. Esmeralda was five months old at the time, and she took her first steps and spoke her first words at the E.S. King Village on campus.

Nearly two decades later, Esmeralda decided to attend NC State. She is a member of the Caldwell Fellows Program and a recipient of the Eastman Scholar Scholarship, the William Jackson Goodrum Scholarship, the Raleigh Engineers’ Club Scholarship, and the Hispanic Scholarship Fund/ Bank of America Endowment Scholarship, among others. Other recognitions include the College of Engineering Faculty Senior Scholar and the Outstanding Senior Award in Citizenship & Service for Chemical and Biomolecular Engineering. Esmeralda is a member of Omega Chi Epsilon, AICHE, the University Scholars Program, the Order of 30 & 3, and the Golden Chain.

Esmeralda has a strong commitment to community service and has used her talents to help various organizations that support underprivileged youth. She created and led two spring break trips to her hometown in Mexico, where she and others taught children about healthcare, art, and science. Esmeralda has volunteered as a camp counselor for the SATELLITE program, encouraging students from rural areas to get interested in science and technology. She participated in a leadership training session provided by the Center for Creative Leadership (CCL) in Greensboro, NC.

Esmeralda has also contributed to her field of study. She has conducted nanotechnology research with Dr. Orlin Velev and Dr. Jan Genzer, and her accomplishments include fabricating a microfluidic device to separate fluorescent latex and silica particles. In addition, she had summer internships at Procter & Gamble and Eastman Chemical Company. Upon graduation, Esmeralda will join the World Wide Engineering and Construction group at Eastman Chemical Company in Kingsport, TN.