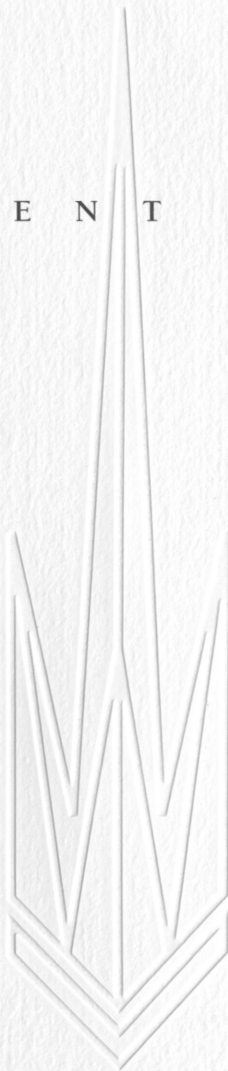


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C O M M E N C E M E N T E X E R C I S E S



Georgia Institute
of **Technology**



Georgia Institute of Technology
206th Commencement
May 6, 2000
Alexander Memorial Coliseum

Welcome to the 206th Commencement of the Georgia Institute of Technology. The entire Tech community extends cordial greetings to parents, spouses, relatives, and friends gathered here for this significant event.

For approximately 1,500 undergraduate and graduate students, today's ceremony recognizes their academic achievements at Georgia Tech and inaugurates a new era in their careers.

Commencement Program
Undergraduate Ceremony
Spring Semester
May 6, 2000
9:00 a.m.
Alexander Memorial Coliseum

PROCESSIONAL	Georgia Tech Brass Ensemble, coordinated by Mr. Bucky Johnson and Mr. Ron Mendola, Department of Music
MASTER OF CEREMONIES	Dr. Wayne Clough, president
REFLECTION	Mr. Carlton O. Parker, director, YMCA
NATIONAL ANTHEM	Georgia Tech Brass Ensemble
COMMENCEMENT ADDRESS	Mr. Alfred R. Berkeley III president, The Nasdaq Stock Market
INTRODUCTION OF ACADEMIC DEANS	Dr. Robert C. McMath Jr. vice provost for Undergraduate Studies and Academic Affairs
PRESENTATION OF UNDERGRADUATE DEGREE CANDIDATES	College of Computing Associate Dean Richard LeBlanc Ivan Allen College Dean Sue Rosser College of Architecture Associate Dean Thomas Debo DuPree College of Management Dean Terry Blum College of Sciences Dean Gary Schuster College of Engineering Dean Jean-Lou Chameau

CONFERRING OF DEGREES	Dr. Clough
COMMISSION RECOGNITION CEREMONY	Major Charles Hemphill affiliate, Army ROTC
INDUCTION INTO THE ALUMNI ASSOCIATION	Mr. N. Allen Robertson, Class of 1969, president, Georgia Tech Alumni Association
PRESENTATION OF THE YOUNG ALUMNI AWARD	Mr. Robertson
ALMA MATER	Georgia Tech Brass Ensemble
FACULTY RECESSIONAL	Georgia Tech Brass Ensemble
"RAMBLIN' WRECK"	Graduates and Audience

Honors Qualifications:

"Honor designations are for undergraduates at Georgia Tech who have met the minimum residency hours requirement of 100 hours, as well as the minimum GPA."

To achieve honor, the minimum GPA is 3.15.

To achieve high honor, the minimum GPA is 3.35.

To achieve highest honor, the minimum GPA is 3.55.

"Changes in honor status may also occur after final printing."

You are requested to refrain from loud expressions of pleasure for individual graduates.

Such expressions detract from the recognition due the next graduate in line.

Your cooperation is respectfully requested.

Commencement Program
Master's and Ph.D. Ceremony
Spring Semester
May 6, 2000
4:00 p.m.
Alexander Memorial Coliseum

PROCESSIONAL	Georgia Tech Brass Ensemble, coordinated by Mr. Bucky Johnson and Mr. Ron Mendola, Department of Music
MASTER OF CEREMONIES	Dr. Wayne Clough, president
REFLECTION	Mr. Carlton O. Parker, director, YMCA
NATIONAL ANTHEM	Georgia Tech Brass Ensemble
COMMENCEMENT ADDRESS	Dr. Joseph Bordogna deputy director and chief operating officer, National Science Foundation

CONFERRING OF DEGREES	Dr. Clough
PRESENTATION OF MASTER'S DEGREE CANDIDATES	Dr. Charles Liotta, vice provost for Research and dean of Graduate Studies
CONFERRING OF DEGREES	Dr. Clough
PRESENTATION OF DOCTORAL DEGREE CANDIDATES	Dr. Liotta
CONFERRING OF DEGREES	Dr. Clough
INDUCTION INTO THE ALUMNI ASSOCIATION	Mr. N. Allen Robertson, Class of 1969, president, Georgia Tech Alumni Association
ALMA MATER	Georgia Tech Brass Ensemble
FACULTY RECEPTIONAL	Georgia Tech Brass Ensemble
"RAMBLIN' WRECK"	Graduates and Audience

The listing of master's and Ph.D. graduates begins on page 23.

*You are requested to refrain from loud expressions of pleasure for individual graduates.
Such expressions detract from the recognition due the next graduate in line.
Your cooperation is respectfully requested.*

Bachelor's Degree Recipients

College of Computing

Bachelor of Science in Computer Science

Highest Honor

Ayodele Mubdihi Alaran
Edward Franklin Cottongim
Jennifer Elaine Dempsey
Stephen Frances Lawrence
Matthew Jay Mills
Kevin Bryan Sykora
Brian Harrison Trammell
Gary David Yngve

High Honor

Rick Jashnani
Dono S. Kabilova
Tuyen Dinh Nguyen
Vu Hoai Pham
Catherine Amine Zanbaka

Honor

Scott Andrew Blum
Mehmet Cem Cebenoyan
Lawrence Boyd Cheng
Albert Cin
Brad Michael Hoover
Nathan Allen Jones
Alison Nicholas Smith
Jonathan Darrell Tew
Justin Eric Weeks
Gary Randall Winbush Jr.
Eric Stephen Wittry

Yasir Amer Araim
Gregoric Peter Basaraba
Leonid P. Bensman
Alex Somsack Bounngaseng
Jennifer Lynn Brown

Susan H. Chan
Jason Dai-cheng Chow
Sheree Chow
Jeremy Michael Commins
Donald Lance Cothorn
Casey Beau Daniell
Judah Ben De Paula
William Christopher Frishe
Christopher Joseph Hamlet
Terence Dewayne Hogans
Joshua Brian Humphries
Howard Todd Kaplan
Shinan Shiraz Kassam
Heather Anne Kersey
Hani Khalaf
Oleh M. Kolesnikov
Samuel Kramer
Yong Hoon Kwon
Justine Chia-Wei Lee
Desiree Monique Lemons
Christopher Verton Lenfest
David Lo
Jeff Lott
Adam Warren Lotz
Marcus Cornelius Lowe
Siye Luo
Dean Pu Mao
William Mark McClain
Duff Douglas Means III
Ryan Charles Micallef
Bill Milligan
John Laurence Mooney
Charles Laurence Moore II
Steven Moy
Elissa Lynn Newman
Bao Ryan Nguyen
Vivek S. Pandya
Roberto Javier Peon
Jeremy David Pitchford
Matthew Richard Scopp
Nimesh R. Shah
Jason Brooke Smith
Michael Ramsey Smith
Nezir Teke

Elizabeth Victoria Thomas
Jason Timms
Timothy Ronald Volk
Jacqueline C. Walker
William Harvey Wells
Tania Maria Williams
Michael Gettys Wymer
Bin Zhu

Bachelor of Science in Computer Science

Cooperative Plan

Highest Honor
David Edward Eison
Keagan Lee Elsley
Cory David Kidd
Scott R. Knight
Victor L. Pate

High Honor
Ivy Allyson Fogel
Dominic Mark Pucci

Honor
William Fredrick Glasgow McCord
Lora Lee Moy
Daniel Patrick Radigan

Cadivalloder Dianysus Amis
Myron William Berry
Thomas Christopher Brancheau
Dong Chen
Matthew Albert Eagin
Michael Joseph Estler
Jason Robert Etheridge
Eric Randall Finch
M.A. Hufstetler
Mark Wayne Johnson
Damon John Kelly
Atif Khan
Justin Paul Labrecque
Andrew Louis LeRoux
Stanley James Livermont

Susan HeeChong Nicholson
Donald Sebastian Orsini
Toby Reyelts
Alan Douglas Sears
Alex William Travis

Ivan Allen College

Bachelor of Science in History, Technology, and Society

Highest Honor
Lacey Catherine Hall
Larry Christopher Young

Emily E. Allen
Carey Thomas Foree
Brandon L. Martin
Benjamin David Skott
Riley Hoke Smart
Amy Michele Walker

Bachelor of Science in Science, Technology, and Culture

Highest Honor
Scott Abelmann
Rebekah Bardwell

High Honor
Regan Elizabeth Lemoine

Charles Stuart Bennett
Therese Anne Gesing
Yury Michael Gitman
Alana Joy Lanier
Joel Patrick McGinnis
Peter Lucas Morris
Barrett Alan Smith
Melinda Beth Wiggins
Kimberly Joy Wilson

Bachelor of Science in International Affairs

Highest Honor

Maggie Anne Lee
Sarah Kathryn Mason

High Honor

Brandon Stephen Boothe
Joshua Michael Hughes
Stephanie Lynn King
Lindsey Lee Monroe

Honor

Olin Thomas Childress III
Andrew Joseph Fell
Christina Lyn Licastri
Matthew Bryant Norton
Robert Emmett O'Keefe III

Victor Sayson Belarmino
Felipe Andres Flores
Kevin James Griffiths
Barbara Rachel Hare
Franklin Augustus Harrell
Benjamin Curtis Keeton
Sarah Xanthe Larson
Nicole Anne Lawhorn
Peter Kuhl Martin IV
Claudis Neil Mathis
India Anne Moore
Rhiannon Clare Morgan
Chris Lee Nicholson
Carey Ann Schiller
Dylan James Struys
Angela Mary Sutylo
Jena Shane Tarabula

Bachelor of Science in International Affairs

Cooperative Plan

Highest Honor

Nathan Clyde Powell

Ryan Gregory Cobb

Bachelor of Science in Economics

Sarah Beth Burgoyne
James Park
David Morris Whittington

College of Architecture

Bachelor of Science

Highest Honor

Denise N. De Lary
Brian Michael Karlowicz
Amanda Gayle Kennedy
Gregory Paul Miller
Amy Shan-Shan Wong

High Honor

Andrew Daniel Fage-Bouche
Adam Noel Hayes
David Matthew Hill
Kimberly Kay Nun
Reginald Avery Wheeler III

Honor

Joshua Ross Andrews
Cory Wade Benson
Megan Lindsay Brown
Peter Brian Choquette
Christopher Douglas Henshaw
Daniel A. Nemec
Jae M. Park
Charles Donald Peppers
Gregory Satoshi Sugano

Timothy R. Andrews
Burcum Hanzade Arkun
Matthew Dale Bierlein
Mary Rebecca Brannen
Eric Yin Cheong
Kimberly Allison Cooper
Robert Lee Henderson Jr.
Kim Nordestgaard Jensen
Stiliani Kastritsos

Brian Lee Keele
Mariam Mojdehi
D. Richard Painter III
Edward David Rader
Veronica Yung Su Tai
Casper Voogt
James Dudley Wesseldyk
Sangmi Yi

Bachelor of Science in Building Construction

High Honor

James Herbert Frazier
Emily Jane Holler
Phillip Andrew Vetter
William Scott Zanow

Honor

Brady Elizabeth Emens
Kenneth Clarence Grimes

Patrick Bradford
Allyson Elizabeth Decatur
Ross Anderson Edwards
Stephen Thomas Ferrin
Joshua Scott McBrayer
Sara Danielle Neave
David Edward Pritchett
Paul George Scherer
Patrick Neil Tomlin
Anthony Carl Watson

Bachelor of Science in Industrial Design

Highest Honor

Erin Michelle Edwards
Margaret Alice Milikin
Sophie Michele Van Doosselaere

Honor

Matthew Vazquez Armstrong
Jason Paul Boyette

Doyle Madison Briley
John Thomas Gray
Matthew Grant McCaskill

Suzanne Jean Boyden
Jason Aaron Civjan
Stephanie Josephine Detrino
Amy Kristin Hague
Marty Jason Hutchinson
Christopher Jason Ledbetter
Jocelyn Jennifer Leitch
Channing Rushin Lewis
Jennifer Nicole Macorkindale
Stacey Lee Macquilliam
David Brian McLaren
Susan Leigh Nephew
Jason D. Roberts
Mary Elizabeth Shuman
Jamie Lynn Williams

DuPree College of Management

Bachelor of Science in Management Science

Honor

Rahim R. Damanwala

Treva Jamelle Peeks
Michael Stanley Vincent

Bachelor of Science in Management

Highest Honor

Lauren Elizabeth Boyett
Jessie Elizabeth Eubank
Leslie Anne Harris
Laura Naomi Leeb
Eric Norris Reynolds
James Albert Tramonte Jr.

High Honor

Jo Ann Casey
Todd Martin Coons

Michael Anthony Dunn
Harold Arthur Frediani III
Kimberly Marie Freeman
Steven Douglas Loube
Jennifer Elizabeth Markman
Ryan Thomas Ott
Christopher Michael Walsh
Andrew Stephen Wilson
Simon Shi Yin

Honor

Timothy Ashley Bibby
Dave Reis Brautigan
Brittany Beth Brosch
Margaret Elizabeth Dickerson
Alan McKinley Hancock
Kelly Michelle Kepes
Karen Kwai Fong Lau
Anna Mitchell McKnight
Dana Catherine Myrick
Lauren Ashley Schwartz
Eric Montgomery Sorrells
Haley E. Speer
Krista Anne Suter
Carolyn Anna Wang
Jonathan Michael Zucker

Curi Ashton Bailey
Heather Elizabeth Baker
Michele Alexandria Barksdale
Rebecca Mae Bassett
Andrew Thomas Bates
Frances Elizabeth Binion
Daniel Edward Brin
Jené Malisha Bryant
Julie Marie Caesar
Samuel David Caldwell
William Jerry Camp
Christy Shannon Carr
Marijane Elnora Cauthorn
Pamela Beth Coan
Glee Ann Deuvall
Carlton Montgomery Forrester
Carla Pamela Gartner
Robert Nathaniel Godfrey II

Jason Charles Groesser
Lynn Suzanne Hagewood
Sheila Mae Hancock
Jonathan Aubrey Harmer
Larry Clayton Harris
Timothy C. Harte
Pamela Roberts Head
Karen Michelle Hobbs
William Carl Hoitink Jr.
Riccardo Benay Ingram
Kathleen J. Irving
Michael William Johnson
Shanna Lee Johnson
Malissa Rae Jones
Jon David King
Matthew Gregory Kuchar
Amy E. Kuo
Victor Alejandro Lagos
Paul William Lawson II
Joseph Louis Lepore
Jared David Levy
Abigail Victoria Littlewood
Daniel Richard London
Scott Andrew Macurak
William F.X. Madden III
Darren Richard Manning
Angela Leigh McCorkle
Michael Lee McDaniel
Curtis Barry McGuinn Jr.
Christopher Thomas Myers
Dustin Owen Naughton
Mary Elizabeth Neville
Timothy Daniel Nihill
Brian John Ottaviano
Neha Natu Patel
Emily Kelly Perdoni
Matthew Conrad Perlet
Christopher W. Peters
James Martin Pridgen
Jason Richard Rexroat
Frank Nicholas Ricotta
Jeffrey Neal Roberts
Randall M. Roberts
Jeanelle Chivers Rogers
Adrienne Renee Rollerson

Lee Ann Saba
Woodson Jasper Savage IV
Robert Niels Seebeck Jr.
Christopher Brandon Shaw
Eva Shen
Casey Carter Silva
Lauren Leigh Simpson
Jamie Ann Smith
Thomas Scott Stiber
Taylor Marie Thode
Robert Alvin Thompson Jr.
David James Todd
Anthony Paul Valduga
Sarah Rebecca Vinson
Hsin-Yu Patricia Wang
Mark Bannon Watson
Elizabeth Warren Wells
Brendan Scanlon Williams
Tian Ruey Woon
Martha Ashley Wright
Kim Xiong

Bachelor of Science in Management
Cooperative Plan

Highest Honor
Julia Caroline Freeman
James David Laramore
Elizabeth Kuhl Raisig
Andrés Sanchez
Adam Matthew Schwartzberg

High Honor
Michael Merrill Flood

Honor
Monal Paul Dhabliwala
Justin Wade Kulpa
Karen Michelle Musgrove

Stephanie Delaine Brown
Daniel Valentine Kuhn V
Sarah Katherine Strout

College of Sciences

**Bachelor of Science in
Earth and Atmospheric Sciences**

High Honor
Teresa Lynn Garner

Ronald Joseph Barbieri Jr.
Alexander Richard Hutko
Rebecca Ann King
Margaret Catherine Pollock
Tameka Nicole Wimberly

**Bachelor of Science in
Earth and Atmospheric Sciences**
Cooperative Plan

High Honor
Bridget Lynneleigh Boyd

**Bachelor of Science in
Applied Biology**

Highest Honor
Farid Kokabi
Staci Michelle Murphy
Katherine Elizabeth Parks
Nirav Manhar Patel
Anita B. Sethna
Vishal Bobby Sharma

High Honor
Phil Holland Alday Jr.
Olivia Ina Koues
Dorothy Blair Meyer

Honor
Jennifer Louise Cahill
Sean Patrick Coy
Kelly Anne Delaney
Kathleen Elizabeth Shattuck

Hillary Lynn Barnes
Matthew James Baumann
Sabine Buchheister
Mark Alan Davis
Sara Beth Griffin
Ginny Marie Harold
Zin H. Kim
Nora Augusta Kuma
Emily Eloise Ragsdale
Michele Nicole Shumpert
Dorothy Victoria Smith
Michael S. Stief
Nicolle Celeste Tolleson

Bachelor of Science in Applied Psychology

Highest Honor
Angela Michelle Swilley

High Honor
Courtney Ellen Swanson

Honor
Joel Andrew Reynolds

Chatelé Antionette Chester
Tonya Sywon Johnson
Tracy Renee Martin
Amanda Lane Reaves
James Howard Traylor Jr.
Melissa Anne Truelove

Bachelor of Science in Applied Mathematics

High Honor
Lindsay Christiane Bates

Brian Michael Kapp

Bachelor of Science in Applied Physics

Honor
Rutherford Barry Johnson

Bachelor of Science in Physics

Highest Honor
Steven James Burkhart
Stewart David Jenkins

High Honor
Tey Mertsching

Haw Jone Cheng
David Alejandro Moscol Guedes
Roman Simon Krampf

Bachelor of Science in Physics Cooperative Plan

Highest Honor
Margaret Angela Osterman

Bachelor of Science in Chemistry

Highest Honor
Venkatachalam Raja Annamalai
Martin Claude Cherrier
Mark Kats
Mohamed Takki Altaf Momin

High Honor
Natanya Rochelle Civjan
George Themistoclis Lountos

Daniel Lee Baker
Paul Thomas Egas
Daniel Gregory Gottlieb
Laurie Catherine Lawlor
Olivia T. Luk
Lucinda Raquel Potts
Carrie Leigh Young

Bachelor of Science in Chemistry
Cooperative Plan

Highest Honor
Jason Lance Niehaus

Shannonmarie Dianne George

College of Engineering

**Bachelor of Science in
Materials Science and Engineering**

Highest Honor
Lori Meghan Kensel
Leta Yar-Li Woo
Tsuyoshi Yamashita

William Brent Harlow
Steven Wayne Hartsell
Vincent Duque Holohan
Gregory Russell Jordan
John Paxton Lee
Olufemi O. Olubajo
Joshua Ray Westmoreland

**Bachelor of Science in
Materials Science and Engineering**
Cooperative Plan

Sean Travis Elliott

**Bachelor of Science in
Computer Engineering**

Highest Honor
Stephanie Ann Augsburger
Adam Caison Brown
Jee Whan Choi
Gregory James Henrich
Birju N. Shah
Matthew Jason Wellman

High Honor
William B.A. Boatin
Brian Alan Long
Thomas Jason Morgan

Honor
Brett James Cooper
Mark Andrew Garofalo
Thomas Charles Gewin
Xiaochang Shirley He
Natalie Renee Ramsey

Mahima Ashok
Michael Lee Bowling
Brian Christopher Butts
Anthony David Carl
Fu Kuei Che
Andrew Michael Crager
Brian L. Cummings
Clifford John Edmisten
Robert Harris Goldman
John Edward Goode Jr.
Glenn Edward Harper
Ashley Leung Hicks
Alvin Doi-Chih Hong
Stephen Hu
Duyet Ngoc Huynh
Alonzo Lewis Jackson II
Robby Alexander King
Mitchell Ryan Kispert
Matthew T. Marcinek
Joseph Kirkman Martin III
Amit Ashwin Patel
William Woodford Pearson
Stewart Lyle Rountree
Billy Cameron Sachse
Candis Lynell Thomas
Adam Clement Tichelaar

Bachelor of Science in Computer Engineering

Cooperative Plan

Highest Honor

Jeffrey Allen Cole
Aron Dean Nopanen
Nathan Christopher Williams

High Honor

Troy Thomas Baumgarten
Jason Andrew Hankins
Le Tu Quach
Todd Hamilton Stokes
Ryan Clarence Thompson

Honor

Jeremy Russell Stewart

Aaron Lee Campagnone
William Clayton Colvin
Justin Tilden-Alex Domnitz
Richard Eppes
Daniel James Feren
Drew Jordan Littlefield
Michael Paul Medina
Gary Christopher Peacock
Christopher William Spivey

Bachelor of Science in Nuclear and Radiological Engineering

Jeremiah Steven Sauber
Nick Eugene Taylor

Bachelor of Science in Industrial Engineering

Highest Honor

Jonathan Eldridge Airhart
Melissa Isabel Alvarado
Heather Marie Bradley
Nicole Kyanne Christensen

Benjamin Alan Clements
Elizabeth Ellen Crowell
Erin Elizabeth Dukes
Alejandra González
Michael Joseph Gronemeyer II
Philip Russell Hankinson
S. Yasmina Zoebaedah Harmidy
Tamarra Jenkin
William Dale Kline
Sarah Kathryn Mason
Amanda Dawn Mealor
Sarah Alice O'Connor
Daniel R. Salgado
Jeffrey Kyle Smith
Elena Michelle Trebits
Steven Wesley Whittington

High Honor

Yoan Carolina Deutz Gibbs
John Joseph Graham
Jonathan Kent Iwig
Ronald K. Kwok
Samuel Paul Merriweather

Honor

David Barton Black
Olin Thomas Childress III
Charles Andrew Garrard
William Freddy Killgore Jr.
David Kemp Loeffel
Virginia Frances Malcome
Colleen Elizabeth McLaughlin
Lonie Ann Murray
Laura Bess Newell
Dennis Gene Oswalt II
Brandy Frederica Ouzts
Ryan Douglas Pape
Karl Daniel Riddett
Amber Lynn Sansom
David Matthew Thompson
Pamela Suzanne Thompson
Stockton Elizabeth Tullis
Emily Kathleen Welch
Emily Suzanne Wilkerson
Nazar Abdenabi Yasin

Sahar Omer Ahmed
 David L. Allen
 Peter Benjamin Ankner
 Riessa Monique Barnes
 Inga Janelle Black
 Susan Laura Buckner
 Johnita LaVal Byrd
 Christopher Allison Cassidy
 Wade Alexander Chappell
 Jennifer Smith Chastain
 Eric Brian Cheatwood
 Julie J. Chu
 John Michael Cullen Jr.
 Conrad Miranda Daniels
 Gary J. Ferrone
 Giancarlo Giannetti
 Ryan Eric Glenn
 Clarissa René Goodlett
 Geoffrey Kenneth Guidera
 Lia Elizabeth Hackerson
 Michael Glen Hedegard
 Elizabeth V. Hildick
 Joseph Daniel Hodler
 Ebony Shirelle Hofler
 Wendy Jill Horowitz
 Thomas King Hudgens II
 Andrew Charles Hudgins
 Scott Whitaker Jackson
 Anuraag Jain
 Yong Kyu Jung
 Jeffrey Alan Kahlan
 Charles Ashley Kelly Jr.
 Craig Brandon Kelly
 Christopher John Kerzel
 Daniel Steven Keys
 Ryan Andrew Kikendall
 Chung Dong Kim
 Helen Samala Kim
 Kevin W. Kincaid
 Geoffrey A. King
 Brian David Koehler
 Dennis Walter Koniecki Jr.
 Marianna La Vecchia
 Todd Michael LaComba

Elizabeth Leath Latimer
 Christine Anne LePrell
 Brenetta Nicole Lewis
 Farhan Ramji Madhani
 Daniel Brian Martin
 Michele Martin
 Erica Demetra Matthews
 Melinda Ruth Mauz
 Todd William McMichael
 Elaine Montgomery Quainter
 Melissa Jill Morgan
 David Edward Moritz
 Tiffani Arnise Murray
 Sharona Nafisi
 Thomas Steven Nagy
 Ryan Kevin O'Donnell
 David Radford Palmer
 Arun K. Pankaj
 Sabine Papenhagen
 Enrique Paredes
 Derek James Patterson
 Christine Michelle Patti
 Don Allen Presley Jr.
 Daniel John Rapacki
 Michael Brian Reagan
 Leigh Hollis Rudder
 Bradford R. Tedder
 Albert Thomas Jr.
 Kristofer Paul Warren
 Tiannia Eugenia Washington
 Laura Alice Webb
 Brian Earl Wilkins
 Katie Bonella Williams

**Bachelor of Science in
 Industrial Engineering**
Cooperative Plan

Highest Honor
 Ellen Leigh Archer
 Brent Andrew Campbell
 Stephanie Michelle Davis
 Luis José Montero
 Vladimir Michaylovich Shlyahov

High Honor

Adam Michael Kline
Stephen Jerry Seabolt
William Jacob Tomlin

Honor

Sarah Kea Erlandson
H. Burton Gay IV
Jason Everett Linscott
Alexis Ann Nelson
Dana Maureen Shamanski

Hans Victor Bendeck
Jessica Marie Calhoun
Heather Elizabeth Greenlee
Richard Law Johnson
Carisa Ann Powell
Jennifer Ann Riess
Laura Renee Sassaman
Scott Ernest Steinbrenner

**Bachelor of Science in
Aerospace Engineering**

Highest Honor

Antonio Manuel Abad
Ancil Matthew Marshall
Jin Hou Soo
Michelle Christine Sykes

Honor

Justin Edward Craig

Sae Wook Oh
Jermaine Sylvester Sailsman
Kevin Dale Wagahoff
Rebecca Faye Webster
Stephen Phillip Williams

**Bachelor of Science in
Aerospace Engineering**

Cooperative Plan

Highest Honor

Andrew Thomas Ford
Tara Turner Poston
Ronald R. Sostaric

High Honor

Andrew Gaines Redd

Michael Tairon Cofer
Douglas Walter Jury

**Bachelor of Science in
Chemical Engineering**

Highest Honor

Kashif Ahmed
Rhonda Allison Dickey
Reuben Dumont Domike
Bertha Shonta Kirkland
Arthi Radha Krishnan
Michael Moziar Mohseni
Carla Patricia Moopenn
James Andrew Rakestraw
Peter Griffin Smith Jr.
Robert Lee Suber Jr.
Elaine Cheryl Thompson
Philip Lawrence Varona

High Honor

Susan Anne Fangmann
Ruchi Rani Gupta
Tamara Lynn Nall
Shelley Anne Rehlin
Jason Robert Schmidt
Ananth Nagesh Shenoy
W. Brad M. Stanley
James Andrew Strickland
Seth David Sundell

Honor

Heather Nicole Brown
Shehzad H. Hoosein

Tricia Gillian Abraham
TaShaunda Rona Baskerville
Allen Chapman Bowen
Van Kim Thi Bui
Bradley David Burns
Bryan Gene Cable
Samir Farook Chandiwal
Anna Patricia Clarke
Jennie Ayesha Conn
Veronica Baines Conti
Lindsey Michelle Cook
Michelle Deanna Cox
Magdalena Czarny
Anna Michelle Deal
Shannon Elliott Dobbins
Benjamin James Fierman
Jennifer Paulette Fouché
Tameika Shontrell Garnett
Danielle Denise Green
Carlton Bernard Griffin
Ryan Keith Hamilton
Isaac Hickson III
John Howard Huggins
John Lee
Courtney Lynn Lloyd
Ana Maria Martin
Joel Seth Millsap
Joseph Eli Patterson
Jorge Pilar
Richard Pinckney Jr.
Alicia Deneen Ricketts
Andrea Lynn Smith
Freddie Rodriguez Swain
Adesegun Olushola Tewogbade
Karel Jan Vandromme
Diana May Vo
Michele Renee Wald
Melanie Teresa Wilson
Paul Andrew Wozniak

**Bachelor of Science in
Chemical Engineering**

Cooperative Plan

Highest Honor

Travis Dean Boone
Julie Wells Burton
Richard Paul Good
Walter Brent Hillock
Howard Steven Lacheen
Charles Kaleb Reed
Brandon George Sizemore
Ginger Beth Wilde

High Honor

Elizabeth Jean O'Dell
Joe Duncan Shelby
Poplin Marie Strickland

Honor

Paul M. Cerrato

Benjamin Michael Bishop
Alex Chay Chang
Rebecca Lynn Ellis
Sean Patrick Kerrigan
Brett Lane Lyles
Matthew Charles Shawcross
Coby B. Stone
Hope N. Swinehart

**Bachelor of Science in
Polymer and Textile Chemistry**

High Honor

Christopher Lee Neill

Jessica Ward Beck

Bachelor of Science in Textile Enterprise Management

High Honor

Marisa Laura Todaro

Shaun Gordon Bellamy
Philip John Ramos
Keith Randall Stewart

Bachelor of Science in Textile and Fiber Engineering

Highest Honor

Shannon Leigh Whitt

Honor

Alisha Mae Landers

Khalifa Wasi Ahmed
Sara Nicole Johnson

Bachelor of Science in Civil Engineering

Highest Honor

Diego Xavier Aviles-Amador
Jeffrey Stewart Berlin
Seth Phillip Ellington
Senth Kimiko Kagbo
Bradley Marc Mills
Stephen Obisaw Opare
Thomas Alan Pfeifer
Eva Jackson Vaughn

High Honor

Andrew James Antweiler
Robert Y. Burchett
Judith Angela Johnson
Adrian William Persaud
Robert Campbell Summers
Robert A. Wright

Honor

Karen Lee Adams
Meghann Alison Byrd

Roberto Reynaldo Amaya Jr.
Charles Joshua Babcock
Benjamin Ernest Brandstetter
Elizabeth Anne Cooper
John Timothy Crocker
Joe C. Crooms III
Mark Andrew Fifield
Michael Thomas Francklin
Peter John Gulbranson
Corey Bryson Guthrie
Shane Christian Harvey
Sara J. Henry
Kimberly Brook Herren
Donald Lee Humphries
David Louis Jackson
Ralph Henry Jennings III
Jonathan Richard Kennedy
Philip Andrew Klucsarits
Jennifer Sue Lepkowski
Marc A. Liverman
William Stanley Mackiewicz III
David Talbot Maijala
Kevan Patrick McCombs
Floyd Philip Morgan
Raushanah Muhammad
George Edward Nichols
Phillip Masero Nyirabu
Jeffery Jamaal Parker
Eileen Prencke
Collin J. Skutt
J. Ryan Smith
Kimberly Lynn Speer
Carson Scott Spencer
Jennifer Michele Sapp Whiddon

Bachelor of Science in Civil Engineering

Cooperative Plan

Highest Honor

Darrin Jay Roby
John David White

High Honor

Matthew Paul Berry
Kevin Grant Daughtry
Carrie Beth Huba
Gregory David Kolb

Angela Townsend Booth
Ron T. Crump
Julianne King
Matthew Cain McClure
Dwayne Owen Tedder

Bachelor of Science in Electrical Engineering

Highest Honor

Mark Graham Adams Jr.
Nikhil Bagga
Perry Shau Betterton
Nakul Rashmin Chitnis
David Walter Fernandez-Beaton
Sunil J. George
Murat Guler
J. Jason Lang
Caroline Magdy Metry
Dariush Molavi
Stanley Birch Polega
James Rockford Pursley
Stacey Noel Rodd

High Honor

Bradley Randolph Culp
Jason Michael George
Nikhil Suresh Lalwani
Nadine Dahab Taylor
Brent Lane White

Honor

Bradley David Beall
C. Michael Colburn
John Jared Gossett
Ho Chau Hai Ha
Rebecca Erin Hill
Christopher Key
Wesley Chowli Leong
Jarrod Maxwell Lumpkin
Di'Ron Christopher Moore
Jeffrey Eugene Scheb

La'Shavous Ashmon
Steven Jeffery Austin
Brent Yuji Barber
Stephen F. Bell
Kenneth Arthur Berck III
Thomas Corbet Daniel
Christian Foy Del'Aune
Reginald Howard Dodoo
Justus Dzahli-Sowu
John Robert Eberle
Jennifer A. Espy
Octavius Metellus Farmer
Imoru Futa
Mark Steven Geiger Jr.
Nicolas Emil Greenfield
Daniel Hoover Harkness III
Christopher Leigh Harmon
Akinori Hashimura
Ping He
William Rodney Hooks
Cale Brian Howard
Ausvin Intakanok Jr.
Kevin Seth Jackson
Rahul Surinder Jain
Daniel Rex James
LaShon Zawana Johns
Jarrett Lee Jones
William Dibrell Jones III
Bablu Kazi
Jongmin Kim
Lauren Jeanne McGrath
Terrell Demetris Neal
Gaurang N. Patel

Rikki K. Patel
 Kevin James Quarterman
 Christopher Lane Reece
 Yarojin Sakia Robinson
 Elisa Joan Rodriguez
 Melvin Roland III
 James Michael Rose
 Stephen Joseph Schneider
 Ketul Niranjana Shah
 Michael Charbel Shoukry
 Shakoor N. Siddeeq
 Quiana Shantae Smith
 Bobbie Ray Solomon
 Edward Mathon Stinnett
 Brad Christopher Sullivan
 Ramsey Mohsen Tantawi
 Leila Nicole Tolle
 Tung Tran
 Andrew Jeffrey Vaughan
 Martin James Von Herrmann
 Daniel S. Wilkins
 William Ryan Windom
 Jia Xie
 Johnny S. Young

Bachelor of Science in Electrical Engineering

Cooperative Plan

Highest Honor

Enrique Baez
 Edward Chad Capps
 David Andrew Ferguson
 Leah Anva Margolies
 Seth David Robinson
 John Samuel Simmons Jr.

High Honor

Amanda Lynn Angel
 Tanah Louis Barchichat
 Edward Graham V
 Keith Lockhart Lee
 Jason Michael Smith

Honor

Nathaniel Matthew Jones
 Brian Daniel Mitchell
 Rajni Kanth Sivasubramanian
 Scott Matthew Teixeira

Quezon Hulguin Alcala Jr.
 Travis Daily Armstrong
 Nicholas Michael D'Amato
 Jomo Lumumba Darlington
 Matthew Stephen Dykes
 Thomas Allen Horn
 Robert Ernest Kerns III
 Gary Smith Richey Jr.
 Blake Wesley Watts

Bachelor of Science in Mechanical Engineering

Highest Honor

Jonathan Barletta
 Shanell Alicia Clarke
 Tarek Naim Elkhatab
 Neha Gandhi
 Christian Robert Keppeler
 Kevin Michael Klein
 John Andrew Malluck
 Reinhard Edison Powell
 Toniann Rotante
 Robert Nelson Stanford

High Honor

James Scott Dunn
 Andrew Thomas Elsberry
 Divya Gupta
 Jeremy Todd Hutcherson
 Ralph Jonathan King
 Seong Joon Ok
 René Javier Sánchez
 Michael Peter Scott
 Oluwatosin Oyewole Tomori
 Donald Scott Turner III
 Amber Marie Welsh

Honor

Mayank Agarwal
Christopher Daniel Cox
Joseph Franklin Edell
Mari Elizabeth Gravlee
Amy Elizabeth Rich
Christopher Valentino Robb
Jeffrey Bryant Schroeder
Anijka Bell Stone
Mathew A. Swanson

Roopal Arun Amin
Marlin Demetrius Archie
Louie Chapin Arnett
Jonathon Alvin Barge
John Lesley Bracey
Edmonia Marie Caldwell
Brian Laurence Camp
Frances DeAnna Carter
Shawn Shannon Chitwood
Mallie Baldwin Clark III
Robert James Cleland
Joseph Burl Easterling
Philip Lawrence Ellenberg
Joel Adam Fehrman
Keith Gregory Graham
William Kevin Hall
Al-Khalique Shariff Hamilton
Therian Cornelia Harris
Amanda E. Haynes
Jeremy Shane Howard
Brian Keith Hulett
Jeffrey Kevin Jones
Jason Allen Kanak
Scott Edward Kavanaugh
Sterling Bryce Krulic
Jaclyn Amy Kuspiel
Kristi Nicole Lawson
Richard Edward Lelli
Charles Anthony Lokey Jr.
James Alexander Lynch
Theral Eugene Mackey III
Melanie Maymí
Dana Marie McAlhany

Michael Shawn McKinsey
Julie Anne Monforte
Carlos José Monserrate
Jose Fabricio Montesinos
Jeremy Ray Myers
Stephanie Eileen Neidig
Robert James Nelson IV
Osgar John Ohanian III
Miloje Oljaca
Cheong-Soo Park
Andrew Eugene Perkins
Pablo Carlos Ricatti
Corey Dawud Rice
Justin Edward Robertson
Meredith Lyn Scarcella
J. David Scelsi
Jason Andrew Seneker
Daniel Eric Smith
Jonathan Patrick Snow
Eric Jason Stallings
Israel David Stone
Melanie Rachelle Teets
Todd Rodgers Travis
Paul Wiles Trotti
Daniel Jason Walesky
Jon Clark Whidby
Geoffrey Elan Whitaker
William Robert Wilson Jr.

**Bachelor of Science in
Mechanical Engineering**
Cooperative Plan

Highest Honor

Brian Robert Betkowski
Eric Christian Carpenter
Michael S. D'Agostino
Roderick Kinté Jackson
Peter Stark Jensen
Ryan William Johnson
Kirk Alan Martin
Nathan Andrew Meredith
Kristin Elizabeth Michael
Kurt K. Schleif

High Honor

Andrew Thomas Bell
Jason Lee Groff
Louis Robert Howayeck
Kelly Ann Stewart
Todd Robert Valentine

Honor

Daniel Kacy Cullen
Kevin James Klucsarits
William Frederick Loeffel
Seth Edward Peyton
Anthony Michael Richards
Brian William Vanairsdale
Melissa Champagne Yale

William C. Alexander
Andrea Renée Burgess
Richard Craig Chatting
Terrance James Cravin
Joel L. Dixon
Stephen Glynn Freeman Jr.
Brian Keith Gardner
James Evan Gibson
John David Hall
Matthew John Hayden
T. Scott Jones
Stephen Matthew Kimmich
Nathaniel Lee-Arthur Mitchell
Jimmy Brandon Padgett
Paul Thomas Pitney

**Bachelor of Science in
Mechanical Engineering**
International Cooperative Plan

Charles Ashley Patrick

Master's Degree Recipients

Master of Science

Elaine Kleinkopf Alexander
Environmental Engineering

Roberto Romo Alvarez
Industrial Engineering

John Alexander Amaya
Aerospace Engineering

James E. Amburgey
Environmental Engineering

Jorge Miguel Arroyo
Economics

Herbert Edwin Becton III
Environmental Engineering

Jason Allan Benfield
Civil Engineering

Lars Helmut Braiteringer
Electrical and Computer Engineering

Bruce Chen
Electrical and Computer Engineering

Ted Li-Te Chen
Aerospace Engineering

Karl Kristopher Cowart
Aerospace Engineering

Thibaud De La Brosse
Management

Roberto Torres Duarte
Electrical and Computer Engineering

Mercer Boyd Edwards III
Architecture

Mohd Wajih A.J. El Sallal
Electrical and Computer Engineering

Jason Christopher Faulkner
Aerospace Engineering

Blandine Maud Fayolle
Management

Ramesh Sugnamal Gehi
Environmental Engineering

Steven Sebastian Georgalis
Architecture

Benedicte Giral
Management

Janice Lynn Godfrey
Environmental Engineering

Erika Gomez
Architecture

Felix Grawert
Electrical and Computer Engineering

William Michael Gray
Industrial Engineering

Travis Peden Green
Civil Engineering

Samuel Pierre Guinet
Management

Michele Anne Newton Healy
Environmental Engineering

Craig David Hesterlee
Civil Engineering

Casey Egan Hudson
Environmental Engineering

Munir Joy Huq
Electrical and Computer Engineering

Frank Thomas Ift
Earth and Atmospheric Sciences

Alok Kataria
Mechanical Engineering

Kieun Kim
Electrical and Computer Engineering

Yuepeng Li
Aerospace Engineering

Yongtao Luo
Earth and Atmospheric Sciences

Charles Lutran
Management

Amy Marie McDonald
Architecture

Jacqueline Menchaca
Mechanical Engineering

Vikram Motwani
Environmental Engineering

Edmund Lee Mullinax
Environmental Engineering

Srikanth Patury
Environmental Engineering

Alexander B. Quinn
Industrial Engineering

Mohandas Paul Raj
Electrical and Computer Engineering

Andrew Howard Runton
Architecture

Glen Edward Sabin
Electrical and Computer Engineering

Emma May Sadler
Mechanical Engineering

Tadashi Sakai
Aerospace Engineering

Gerhard Schwarzmüller
Architecture

Masayoshi Senga
Aerospace Engineering

Pahnit Seriburi
Electrical and Computer Engineering

Jonathan Mac Shaw
Architecture

Mutasem Omar Sinnokrot
Earth and Atmospheric Sciences

Christopher Lindsey Smith
Electrical and Computer Engineering

Mary Katherine Smith
Architecture

Sean W. St. Clair
Civil Engineering

Shane Edward Steelman
Environmental Engineering

Alexander Ekiong Tan
Electrical and Computer Engineering

Sebastian Williamson Toomey
Architecture

Payam Torab
Electrical and Computer Engineering

Guillermo A. López Velarde Uribe
Industrial Engineering

Michael Gerald Vrazel
Electrical and Computer Engineering

Ping Wang
Earth and Atmospheric Sciences

Charles Raven Whatley Jr.
Economics

Leonard Joseph Yankosky
Industrial Engineering

Jefferey C. Yaschur
Architecture

Jen-Te Yu
Electrical and Computer Engineering

Huifang Zhao
Electrical and Computer Engineering

Master of Science in Human-Computer Interaction

Thomas M. Drewes
Casey Jones
Olena Mamykina

Master of Science in Bioengineering

Ann Elizabeth Ensley
Morten Oelgaard Jensen
Richard A. Magid
Lisa Ellen Wenner

Master of Science in Polymers

Jon Michael Crate

Master of Science in Statistics

Shideh Delrahim Ebrahim-Zadeh
Michael Howard Frankel
Terrence Edward Murphy

Master of Science in Computer Science

Colleen Mary Kehoe
Russell Bivens Keldorph
Anand Lakshminarayanan
Shashidhar Merugu
Tahia Infantes Morris
Haihui Niu
Haolan Qin
Rodney Thederick Walker
Wai Gen Yee

Master of Science in International Affairs

Brandon Boyd Beshears
Tracy Ann Bius
Jennifer Kathleen Dodd
Eric Russell Griffin
Jennifer Lynn Lewis
John Patrick Mizak
Todd Richard Mosby
Rossen Issidorov Popov
Lakshmi Rajagopal
Linda Carolyn Whitmore

Master of Science in Information Design and Technology

Michelle Lynnette Adams
Saurabh Bobby Bose
Jaclyn Denise Branner
Neil R. Cadsawan
John D. Fouts
Keith Matthew Freck
Abla Lynette Hamilton

Kerrie Ann Hudzinski
Mildred Caren Paul Moore
David Joseph Naspinski
Dawn Michelle Ressel
Junko Sakaguchi-Inoue
Alan Mitchell Segal
Sheila Mahon Shelton
Marie Celine Mañago Ulgado

Master of Science in Public Policy

Gary Robert Barnum
Jeffery Loring Bournes
Eric Neal Coffey
David Scott Jacoby
Shira Jaye Kapplin
Jim Kelly
Vijaya Saraswati Perumalla
Suzanne Yvette Safran
Seth Solomon Sobel
Ryoung Song
Greg Allen Ward
Lawrence B. Wilson
Karina Lee Wzientek

Master of Architecture

Timothy Scott Aebie
Maria Amparo Asenjo
Hyun-Suk Baek
Jennifer Michelle Comose
Nicholas Claire Dickinson II
Godfrey Akese Gaisie
Daniel Antonio Güich Jr.
Ina Jalene Heung
Timothy Alan Lochmaier
Mai Manabe
Charles Anderson Riley III
Jorge Enrique Rodriguez
Kyung Wook Seo
Rajiv N. Wanasundera
John Dwight Weiler III

Master of City Planning

Heather LeAnne Alhadeff
Darnel Emir Barnes
Stephen Joel Cote
Sidney E. Douse III
Catherine Ann Endicott
Anthony Joseph Giarrusso
Janeane Catherine Gilbreath
Walker North Philip Gilmore
Amy Rose Goodwin
Patrick Clark Hall
Douglas James Hammel
Peter D. Hansen
Edrick Jamon Harris
Darrell L. Howard
Corey Leigh Jobson Fischer
Dana Robert Johnson
George Kopmeier Krauth II
Christopher Paul McGarry
Jonathan O'Brien Murray
Alison Nichols
Sangmi Park
James Douglas Pugsley
Denise Edna Ransom
Paul Stephen Rose
William Francis Marion Ross III
Susan Louise Rutherford
Charles Elliott Shultz
Mary Margaret Stallings
Charles Woodruff Starks
Alan Kendal Steinbeck
Contente Leasure Terry
Erin Carroll Kelly Tilghman
Christopher Michael Tonkovic
Katherine Miles Tullos
Rajiv N. Wanasundera
Crystal May Welsh
Caroline Simpson Whaley
Charles M. Young Jr.

Master of Science in Management

Mark Ivan Abrahams
Aderike O. Adebisi
Joseph Irene Aurore
Jennifer Hope Bailey
Tina Marie Baker
Bobby Hyo Bang
Kathy McGarity Benton
Girard Edgar Boudreau III
Thomas Jerome Brachowski
Patrick Christopher Brown
Kevin Julius Butler
William Perry Carrier
Nancy J. Casey
Abraham Judd Chamoy
Renaud Jean-Emmanuel Chanat
Yongbin Chen
Chih Hung Chu
Tracy Anne Clark
Alejandro Jimenez Correal
Fred Richard (Richie) Day
Michael C. Denicore
Luis Francisco Fernandez
Grosvenor Wardwell Fish III
Walter Glenn Fleming
Stephen Ray Frey
Margaret Fynn
Jennifer Ann Gladu
Craig Alan Glaser
Jennifer Warren Gordon
Jill Sullivan Greer
Michael John Guske
Tao Han
Julio Jose Heinze
Adam David Hils
Jeffrey Charles Hilyard
Anita Lynn Hodge
William A. Hoos
Joseph Edward Joyce
Jonathan Ledue Kapplow
Chang Hoon Lee
Hyuk Jae Lee
Brent Welch Lever

David James Lewis
Linda Renea Lisska
Atul Mandal
John Robert Mayer
Daniel Patrick McCarthy
David Edward McGraw
John Felix Miller
David C. Murray
Brian Robert Murtha
Ricardo Niedermeyer
Timothy Kevin O'Flaherty
Fezal Okur
Timothy Robert Ortman
Rebecca Wallis Palmer
Christopher Joseph Perriello
Yolanda Lucia Pertuz
Michael James Petrea
Margaret Alyse Pickett
William Crawford Powell
Sanju Meleeta Pratap
Kenyon Girard Rader
David Carl Riley
Monica Christine Rinkevich
Keith Robbins
Matthew William Robertson
Ukrit Salyapongs
Kristen Rote Seaver
Todd C. Sharp
Suheb Siddiqui
Russell Leon Snyder Jr.
Dana Suzanne Underwood
Can Uslay
Scott Cary Verlander
Kevin Mark Vinson
John Kevin Voltz
William Jones Ward
Rosemary Wang Watts
Mary Grace T. Whitaker
Philip John Wickström Jr.
Erin Marie Wieckert
Kristen Noelle Wood
David Vello Zavich
Julie Alyson Zellner

Master of Science in Earth and Atmospheric Sciences

Colin Michael Craven
Kevin James Davis
Troy Howard Lorier

Master of Science in Psychology

Kimberly Dawn Andrews
Meredith Joy Bashaw
Regan Helen Campbell
Jill Diane Katka
Amy Low Mykityshyn
Alonzo Fleming Seay III
Victoria Ann Spaulding-Johnson
Aileen Joan Worden

Master of Science in Applied Biology

Leigh Gayle Powers
Mary T. Sorensen
Wei Wang

Master of Science in Applied Mathematics

Anthony Wayne Baker
Chad A. Mullikin
Joel R. Quinn

Master of Science in Applied Physics

Michael Stephen Jackson

Master of Science in Physics

Sukanya Chakrabarti
Haining Lu
Andreas Menzel
Ozgur Misman
Leaor David Schwartz
Lenward Thurman Seals III

Master of Science in Chemistry

Stephanie J. Dilocker
Russell Alan Dondero
Munir Joy Huq
Chad Christopher Sines
Finn Andrew Tobiesen
David Vello Zavich

Master of Science in Health Physics

Desiree Nicole Batth
Jodi Lopez Sulak
Erik L. Swanberg Jr.

Master of Science in Health Systems

Mary Ellen Miller
Sundararajan Venkatesh

Master of Science in Nuclear Engineering

Timothy Michael Carroll
Scott William Mosher

Master of Science in Operations Research

William Eugene Acheson
Christopher Kerwin Bentley
Byeong-Yun Chang
Ruth Ellen Cook
Kelso William Horst Jr.
David Tien Huang
David Leroy Knellinger
José Luis Trejo Meza
Kevin Christopher Smith

Master of Science in Industrial Engineering

Parag Bhagwandas Agrawal
Priyadarshan Sudhir Bhate
Sachin Vijay Bhatevara
Ajith Cheriyan
Chi-Lin Chung
Jianbin Dai
Stuart Daniel Davis
David De Greiff
Zayda Marcela Forero
Gary Michael Gaukler
Nipun Kulbhushan Girotra
Yonggang Guan
Mark Anthony Insalaco
Prashant Suresh Iyengar
Jerri Lynn Jones
Randall Ray Klingaman Jr.
Sonny Ramadasan Kunnakkat
Tiffany Nicole Legington
Edison Manurung
Erich Meier
Marc Daniel Miller
Michelle Marie Mitchell
Sandeep Pai
Jagannath S. Rajagopal
Kimberly Susan Roberts
Luis F. Soto

Master of Science in Aerospace Engineering

Sherrie Ann Augustus
Ronen Elkoby
Yongsheng Gu
Corey Anthony Ippolito
Eeho Jung
Chang Eun Kim
Mehmet Kirtas
Sangjun Ko
Hahntack Lee
Seung-Jae Lee
Jesus Jimeno Martinez

Xiaoling Wang
Jason R. Zumstein

Master of Science in Materials Science and Engineering

Giulio Grandinetti
Jack Maurice Griffin
Monica Hochstein
MingHui Kuang
Lara Jean Martin
William Michael Nemeth

Master of Science in Chemical Engineering

Reena Agarwal
Baris Haznedar
Robyn Kathryn Schlicher
Jeremiah Raphael Tabb
André Dewayne Taylor
Judith U.S. Thompson
Michael Douglas Wedlake

Master of Science in Textile and Fiber Engineering

Barath Ramachandran Bhaaradwaj
Xiaomin Meng
Anand G. Nahar

Master of Science in Environmental Engineering

Caroline Dawn Chin
Woon Oh
Robert Eugene Sauer Jr.

Master of Science in Civil Engineering

Alan Edward Bowling
Thomas Joseph Casey
Thanet Chanchareon
Ahmet Muhtar Citipitioglu
Stephen Joel Cote
Lakshmi Prasad Dasi
William Edward Diesing III
Jason Cameron Dill
Christian Frenzel
Lorraine Dora Funkhouser
Jean Pascal Grevsmuehl
Ryan Alexander Arrieta Hallberg
Max LeGrand Johnson Jr.
Gary La Ron Jones
Rohan Kalyanpur
Sang-Cheol Kim
Tam Tinh Lam
Susendar Muthukumar
Ariel Alejandro Rubin
Nishant Rohitkumar Shah
Diana Harvey Weber

Master of Science in Electrical and Computer Engineering

Kulsoom Benazir Abdullah
Christopher Allan Aden
Justin James Allum
Aziz Umit Batur
Malcolm Keith Benson
Franklin Don Bien
David Anthony Brown
Hai Hong Bui
Cagatay Candan
Sungjun Chun
Jeff R. Corbin
Gregory Edward Cross
Dennis M. Deardorff
Mehmet Fatih Demirkol
Rangaraj V. Garudapuram
John William Glotzbach

Yun Gong
Kurt Welden Goodyear
Jonathan Paul Griffith
Youngwon Han
James Kenneth Hogan
Paul Sung Hong
Hong Huang
Huang-wen Huang
Ali Murat Iloglu
Joel Paul Jenkins
Anurag Kaplish
Sameer Akbar Khan
Hyung-Joon Kim
Lisa Elizabeth Lawson
Kao Luen Lee
Deborah Leigh Light
Jian Liu
Ai Chen Low
Daniel Lu
Sami Omar Malas
Ryan James Malloy
Siddharth Manay
Ryan Charles McCowan
Joy Rebecca McCown
David Jennings McLaurin
Arun Mittal
Robert William Morris
Aaron Daniel Niese
Michael Edward Nowatkowski
Soner Özgür
Pranav N. Patel
Clifford Neil Pepper
Jason Calvin Pierce
John David Powers Jr.
Richard Michael Presley Jr.
Vinod Rajasekaran
Erie Alexis Pérez Rodríguez
Samuel Thomas Sander
Sanjay Satagopan
Irfan Azeem Sayyad
Filip Schmole
David Lee Skinner
Sergei Slavnov
Timothy Earl Smith

Stephen Folsom Stanaland
Sou-Pen Su
Sridharan Subramanian
Bortecene Terlemez
Brice Alban Tetu
Lorenzo Orozco Valdes
Raguraman Venkatesan
Ricardo A. Villalaz
Michael Thomas Weber
Gregory Joseph Wirth
Jennifer Anne Wright

Master of Science in Mechanical Engineering

Blace Chandler Albert
Peter Byron Arestides
Alexander Leonard Philip Atmadi
Pierre Aussaguel
Sylvain Bedouet
Frederic Bouyge
David A. Clark
Fabien Thibault Codron
Justin Andrew Collins
Justin Anderson Conroy
Daniel Adam Cook
William Arthur Counts
Fredrick Scott Cowan
Rafael Alvaro de Cárdenas
Lance Christopher Elwell
Dathan Shane Erdahl
Christy Lynn Etter
Aude Martine Faugere
Valeria Cristina Gessaghi
Bradley David Geving
Ali Page Gordon
Karen Erica Grosser
Thibaut Xavier Guignard
Joseph Michael Haemer
Xiaoling He
Rogelio Lorenzo Hecker
Rubén Waldemar Lanz Herrera
Paul N. Houston
Christopher John Hunter

Aftab Hussain
Robert Lee Jackson III
Kevin Matthew Johnson
Jeffry Hartono Joni
Andrew Robert Keller
Shawn Eric Klawunder
John Timothy Koontz
Shannon Gail Malcolm
Richard Peter McDonald
Justin James McLoughlin
Saifulrizal Mdramli
Lorne Edward Meade
Chad Andrew Moore
Erika Ann Ooten
Gregory James Petriccione
Phongsaen Pitakwatchara
Joshua Lee Rayner
Patrick E.F. Reid
Benoit Rivollet
Joshua Derrick Roberson
Michael James Robertson
Ryan Patrick Rye
Jason A. Stammen
Ryan Manse Stoddard
Philippe Sucusky
Andrew Stuart Terrell
Ryan Russell Thorpe
Anthony Lamar Walker
Amanda Clare Weber
Nathan Thomas Weiland
John Sterling Wiggins
Tracy Denise Williams
Wesley Rex Wolf
William Martin Young

Doctoral Degree Candidates

Doctor of Philosophy Bioengineering

David Patrick O'Brien

Thesis: "Micromachined
Microelectrode Arrays for
Stimulation of Neural Tissue"

Advisor: Dr. M. Allen

Doctor of Philosophy Algorithms, Combinatorics, and Optimization

Christopher Carl Heckman

Thesis: "Independent Sets in
Bounded Degree Graphs"

Advisor: Dr. R. Thomas

Doctor of Philosophy Computer Science

Ingrid Eva Maria Hybinette

Thesis: "Interactive Parallel
Simulation Environments"

Advisor: Dr. R. Fujimoto

Doctor of Philosophy Earth and Atmospheric Sciences

Katherine Johnson Evans

Thesis: "Quantitative Analysis of
the Mechanisms and Feedbacks
Influencing the Life Cycles of
Persistent Flow Anomalies"

Advisor: Dr. R. Black

Jian Li

Thesis: "Using Cadmium-113
Nuclear Spectrometry to Study
Metal Complexation by Natural
Organic Matter"

Advisor: Dr. E. Perdue

Doctor of Philosophy Applied Biology

Benjamin Lee Preston

Thesis: "Toxicant Interactions with
the Biotic and Abiotic Environment
of Freshwater Rotifers: Implications
for Ecological Risk Assessment"

Advisor: Dr. T. Snell

Doctor of Philosophy Applied Mathematics

Lisa Anne Bloomer

Thesis: "Random Probability
Measures with Given Mean
and Variance"

Advisor: Dr. T. Hill

James Clayton Kerce

Thesis: "Geometric Problems
Relating Evolution Equations
and Variational Principles"

Advisor: Dr. E. Carlen

Marion Weeder mann

Thesis: "On Perturbations of
Delay-Differential Equations
with Periodic Orbits"

Advisor: Dr. J. Hale

**Doctor of Philosophy
Psychology**

Paul Eugene Gay Jr.

Thesis: "An Analysis of the
Influence of Order of Part-Task
Component Training on Whole-
Task Performance"

Advisor: Dr. A. Fisk

Sherry Ellen Mead

Thesis: "Contributions of Stimulus-
Driven and Goal-Directed to Visual
Selection by Older and Younger
Observers"

Advisor: Dr. A. Fisk

Frederick Marlow Rudolph

Thesis: "Human Performance
During Automation: The
Interaction Between Automation,
System Information, and
Information Display in a
Simulated Flying Task"

Advisor: Dr. G. Corso

Tara Suzanne Stoinski

Thesis: "Behavioral Differences
Between Captive-Born,
Reintroduced Golden Lion Tamarins
(*Leontopithecus rosalia rosalia*) and
their Wild-Born Offspring"

Advisor: Dr. T. Maple

**Doctor of Philosophy
Physics**

Joseph Daniel Neff

Thesis: "Controlled Stochastic
Resonance and Nonlinear
Electronic Circuits"

Advisor: Dr. W. Ditto

Gregory D. VanWiggeren

Thesis: "Chaotic Communication
with Erbium-Doped Fiber Ring
Lasers"

Advisor: Dr. R. Roy

**Doctor of Philosophy
Chemistry**

Christina Marie Baxter

Thesis: "Development of a Low-Flow
Particle Beam Interface for
Environmental Mass Spectrometry"

Advisor: Dr. R. Browner

Terry P. Bigioni

Thesis: "Scanning Probe Microscopy
and Spectroscopy of Passivated
Gold Nanocrystals"

Advisor: Dr. R. Whetten

Xiao Hua Chen

Thesis: "Patterning Etch Masks via
Grafting from Polymerization"

Advisor: Dr. L. Tolbert

Zhenguo Liu

Thesis: "Syntheses of Macrocyclic
Oligomers for Low-OVC Coating
Process on the Surface of
Metal Substrates"

Advisor: Dr. C. Liotta

Hairuo Peng
Thesis: "Potential Anticancer
Agents Active Against Oncogenic
Cell Cycle and Signal Transduction
Components"
Advisor: Dr. L. Zalkow

Erica Nicole Sullivan
Thesis: "Photoexcited
Hydroxyarenes as Probes for
Microenvironments"
Advisor: Dr. L. Tolbert

Michael John Terapane
Thesis: "Electron Transfer in Unique
Organic Systems: I. A Study of
Single Electron Transfer (SET) as
an Alternative Mechanism in
Nucleophilic Substitution; II.
Bisferrocenyl Polyenes as Potential
Molecular Wires"
Advisor: Dr. L. Tolbert

Doctor of Philosophy Materials Science and Engineering

Kwadwo Ampofo Appiah
Thesis: "Microstructural and
Microanalytical Characterization
of Laminated (C-SiC) Matrix
Composites Fabricated by Force-
Flow, Thermal-Gradient Chemical
Vapor Infiltration"
Advisor: Dr. Z. Wang

Yongdong Jiang
Thesis: "Synthesis and Properties
of Powder Phosphor Materials for
Field Emission Displays"
Advisor: Dr. Z. Wang

Songhua Shi
Thesis: "Study on No-Flow
Underfill Materials for Low-Cost
Flip-Chip Applications"
Advisor: Dr. C. Wong

David Walter Stollberg
Thesis: "Nonindentation of
YSZ-Alumina Ceramic Thin Films
Grown by Combustion Chemical
Vapor Deposition"
Advisor: Dr. W. Carter

Jinsong Yin
Thesis: "Self-Assembly of
Ordered Nanostructures"
Advisor: Dr. Z. Wang

Doctor of Philosophy Textile Engineering

Shawn Eric Jenkins
Thesis: "Effect of Covalent
Crosslinking and Hydrogen
Bonding on the Physical and
Mechanical Properties of
Rigid-Rod Polymeric Fibers"
Advisor: Dr. K. Jacob

Hsi-Lung Stephen Lee
Thesis: "Study of the Industrial
Through-Air Drying Process for
Tufted Carpet"
Advisor: Dr. W. Carr

**Doctor of Philosophy
Engineering Science and Mechanics**

Alan M. Harben

Thesis: "An Electromyographic
Kinetic Model for Passive Stretch
of Hypertonic Elbow Flexors"

Advisor: Dr. D. Berghaus

**Doctor of Philosophy
Industrial Engineering**

Paul Goldsman

Thesis: "Continuous Indexing of
Surfaces: A Tool to Support GIS
Systems for Logistics Planning"

Advisor: Dr. J. Bartholdi

Otis Brian Jennings

Thesis: "Multi-class Queuing
Networks with Set-up Delay:
Stability Analysis and Heavy
Traffic Approximation"

Advisor: Dr. J. Dai

Jennifer Jo VanAllen Ockerman

Thesis: "Task Guidance and
Procedure Context: Aiding Workers
in Appropriate Procedure Following"

Advisor: Dr. A. Pritchett

**Doctor of Philosophy
Aerospace Engineering**

Veerathu Kalyana Chakravarthy

Thesis: "Stochastic Sub-grid
Modeling of Turbulent,
Premixed Flames"

Advisor: Dr. S. Menon

Bryce Alexander Roth

Thesis: "A Theoretical Treatment
of Technical Risk in Modern
Propulsion System Design"

Advisor: Dr. D. Mavris

Alexander Stein

Thesis: "Computational Analysis
of Stall and Separation Control in
Centrifugal Compressors"

Advisor: Dr. N. Sankar

**Doctor of Philosophy
Chemical Engineering**

James Seay Brown III

Thesis: "Environmentally
Benign Chemical Processing
in Expanded Solvents"

Advisor: Dr. C. Eckert

Christopher Donald Gilbert

Thesis: "Non-Newtonian
Conversion of Emulsion Liquid
Membranes in the Extraction
of Lead and Zinc from
Simulated Wastewater"

Advisor: Dr. J. Hsieh

Heather Patrick Lesutis

Thesis: "Reaction Kinetics in
Environmentally Benign Novel
Solvent Systems"

Advisor: Dr. C. Eckert

Rahul Nagaraj Manepalli

Thesis: "Electron Beam Curing of
Thin-Film Polymer Dielectrics"

Advisor: Dr. P. Kohl

**Doctor of Philosophy
Environmental Engineering**

Sheau-Yun Chiang

Thesis: "Reductive Dechlorination of Chlorinated Phenols in Methanogenic Wetland Sediment Slurries"

Advisor: Dr. F. Saunders

Won-Tae Shin

Thesis: "Effects of Electric Fields on Fluids: Applications in Ozonation"

Advisor: Dr. S. Yioum

**Doctor of Philosophy
Civil Engineering**

Dmitriy Konstantinovich Astakhov

Thesis: "Permeability Evolution as a Result of Fluid-Rock Interaction"

Advisor: Dr. L. Germanovich

Americo Leon Fernandez

Thesis: "Tomographic Imaging of the State of Stress"

Advisor: Dr. J. Santamarina

Ignatius Wobyeba Fomunung

Thesis: "Predicting Emissions Rates for the Atlanta On-Road, Light-Duty Vehicular Fleet as a Function of Operating Modes, Control Technologies, and Engine Characteristics"

Advisor: Dr. S. Washington

Mohamed Khalil Shams

Thesis: "Time-Dependent Behavior of High-Performance Concrete"

Advisor: Dr. L. Kahn

Timothy Robert Wyatt

Thesis: "Development and Assessment of an Educational Software Environment for Geotechnical Engineering"

Advisor: Dr. J. Frost

**Doctor of Philosophy
Electrical and Computer Engineering**

Anuj Batra

Thesis: "Extensions of the Constant-Modulus Algorithm and the Phase-Locked Loop for Blind, Multi-user Detection"

Advisor: Dr. J. Barry

Mohammad Chaichimansour

Thesis: "Electro-optical Characterization of ACTFEL Devices"

Advisor: Dr. C. Summers

Kee Shik Chung

Thesis: "ILP-SIMD: An Instruction Parallel SIMD Architecture with Short-Wire"

Advisor: Dr. D. Wills

Lucian Codrescu

Thesis: "Atlas: A Dynamically Parallelizing Chip-Multiprocessor for Gigascale Integration"

Advisor: Dr. D. Wills

Jennifer Marie English

Thesis: "Wireless Micromachined Ceramic Pressure Sensors for High-Temperature Environments"

Advisor: Dr. M. Allen

Rosana Esteller

Thesis: "Detection of Seizure Onset in Epileptic Patients from Intracranial EEG Signals"

Advisor: Dr. G. Vachtsevanos

Sangwoo Han

Thesis: "Development of MMIC-Based Modules for RF/Optical Subcarrier Multiplexed Communications"

Advisor: Dr. J. Laskar

Rahmi Hezar

Thesis: "Oversampled Digital Filters: A Design Methodology and Implementation"

Advisor: Dr. V. Madiseti

Jinsoup Joung

Thesis: "Co-channel Interference Canceling Receivers for TDMA Systems"

Advisor: Dr. G. Stuber

Todd Jeffrey Kaiser

Thesis: "A Micromachined Pendulous Oscillating Gyroscopic Accelerometer"

Advisor: Dr. M. Allen

Sangyoun Lee

Thesis: "Design and Implementation of Robust Signal Processors with Applications to Video Coding"

Advisor: Dr. V. Madiseti

Darnell Janssen Moore

Thesis: "Vision-Based Recognition of Action Using Context"

Advisor: Dr. M. Hayes

Chanin Nilubol

Thesis: "Two-Dimensional HMM Classifier with Density Perturbation and Data-Weighting Techniques for Pattern Recognition Problems"

Advisor: Dr. R. Mersereau

Gwangcheol Park

Thesis: "Multiscale, Deformable Template Matching for Image Analysis"

Advisor: Dr. M. Smith

Gregory Alan Showman

Thesis: "Polarimetric Calibration of Ultra-Wideband SAR Imagery"

Advisor: Dr. J. McClellan

Mihai Sipitca

Thesis: "A Conditional Entropy Approach to Encoding DCT Coefficients for Low-Bit-Rate Video Compression"

Advisor: Dr. R. Mersereau

Trevor R. Trinkaus

Thesis: "Perceptual Coding of Audio and Diverse Speech Signals"

Advisor: Dr. M. Clements

Doctor of Philosophy Nuclear and Radiological Engineering

Jianwei Wang

Thesis: "An Experimental Investigation of Droplet Impact Cooling at Controlled Surface Temperatures"

Advisor: Dr. S. Abdel-Khalik

**Doctor of Philosophy
Mechanical Engineering**

Staci Ann Davis

Thesis: "Mixing Control of Jets
Using Synthetic Jet Technology"

Advisor: Dr. A. Glezer

Stacey Angela Dixon

Thesis: "Biomedical Analysis
of Coronary Arteries Using a
Complementary Energy Model
and Design Experiments"

Advisor: Dr. R. Vito

Susan Rebecca Harp

Thesis: "A Computational Method
for Evaluating Cavitating Flow
Between Rough Surfaces"

Advisor: Dr. R. Salant

Mingxiao Jiang

Thesis: "Scale and Boundary
Conditions Effects in
Fiber-reinforced Composite"

Advisor: Dr. I. Jasiuk

Bradley Albert Miller

Thesis: "New Formulations for
Numerical and Semianalytic,
Dynamic Analyses of
Gas-Lubricated Triboelements"

Advisor: Dr. I. Green

Hosein Ali Razavi

Thesis: "Identification and Control
of Grinding Processes for
Intermetallic Compounds"

Advisor: Dr. T. Kurfess

Sungsoo Rhim

Thesis: "Limitations and
Improvements of Time-Delay
Command Shaping Filters for
Flexible Machine Control"

Advisor: Dr. W. Book

Orlando Enrique Ruiz

Thesis: "Numerical Analysis of the
Dropwise Evaporation Process"

Advisor: Dr. W. Black

Zahed Siddique

Thesis: "Common Platform
Development Designing for
Product Variety"

Advisor: Dr. D. Rosen

Qizhou Yao

Thesis: "Modeling and
Characterization of Interfacial
Adhesion and Fracture"

Advisor: Dr. J. Qu

Jun Zhai

Thesis: "Micromechanical Modeling
of Dynamic Fracture in
Heterogeneous Materials"

Advisor: Dr. M. Zhou

G. Wayne Clough, Ph.D.

President

Georgia Institute of Technology

In September 1994, Dr. G. Wayne Clough became the tenth president of the Georgia Institute of Technology and the first alumnus to serve as president. Dr. Clough received his B.S. and M.S. in civil engineering from Georgia Tech in 1964 and 1965, respectively. He received his Ph.D. in 1969 from the University of California, Berkeley.

Dr. Clough has been a member of the faculty at Duke University, Stanford University, Virginia Tech, and the University of Washington. He was head of the Department of Civil Engineering at Virginia Tech from 1983-1990, then served as dean of Virginia Tech's College of Engineering for three years. In 1993, he became the provost and vice president for Academic Affairs at the University of Washington, a position he held until he returned to his alma mater.

Under his leadership as president, Georgia Tech has served as the Olympic Village for the 1996 Centennial Olympics and launched its second Capital Campaign, raising more than \$500 million to date. Research expenditures have increased for five consecutive years from \$212 million to \$270 million, a required computer initiative for all students was implemented, and enrollments increased from 13,000 to 14,000. A statewide Georgia Tech regional engineering program has been implemented.

Dr. Clough is the recipient of a number of national awards and honors for teaching and research, including a total of seven from the American Society of Civil Engineers. He is one of a handful of civil engineers to have been twice awarded civil engineering's oldest recognition, the Norman Medal, the first in 1982 and most recently in 1996. Other recognitions by the American Society of Civil Engineers include the 1991 State



of the Art Award and the 1994 Karl Terzaghi Lectureship. He received the George Westinghouse Award from the American Society of Engineering Education in 1986 for outstanding teaching. In 1990, he was elected to the National Academy of Engineering.

Active in national and local professional and volunteer service

work, Dr. Clough's current service includes the Executive Committee of the National Council on Competitiveness, the Malcolm Baldrige National Quality Award Board of Directors, and the Board of Trustees of the Institute of Paper Science and Technology. He is a member of the Rotary Club of Atlanta, the Executive Committee of Central Atlanta Progress, the Board of Directors of the Metro Atlanta Chamber of Commerce, and a trustee of the Georgia Research Alliance. He also serves on the Board of Advisors for the Noro-Moseley Partners, the Southeast's largest venture capital fund. In 1999, *Georgia Trend* magazine named Dr. Clough one of the 100 Most Powerful and Influential People in Georgia.

Dr. Clough's research interests lie in geotechnical engineering, including studies of earthquakes, numerical analysis, soil-structure interaction, in-situ testing, and underground openings. He has consulted with more than 70 firms and government agencies, and has published more than 120 papers and reports, and six book chapters.

Alfred R. Berkeley III

Commencement Speaker

Alfred R. Berkeley III was appointed president of the Nasdaq Stock Market on May 9, 1996. Prior to joining Nasdaq, Mr. Berkeley was managing director and senior banker in the Corporate Finance Department of Alex. Brown & Sons, where his primary expertise involved large computer software and electronic commerce companies.

Mr. Berkely joined Alex. Brown & Sons in 1972 as a research analyst. He became a general partner of Alex. Brown in 1983. From 1985 to 1987, he served as head of Information Services for the firm. In that capacity, he was responsible for all corporate information services, including the firm's back office and front office technology. Mr. Berkely then moved on to Alex. Brown's Merger and Acquisition Department, where from 1987 to 1989 he helped develop the firm's technology practice. From 1989 to July 1991, he took a



leave of absence from Alex. Brown and joined Safeguard Scientifics, where he served on its Executive Committee and as chairman of a number of its subsidiaries including Rabbit Software and Micro Decision Ware.

Mr. Berkeley served as a captain in the United States Air Force from 1968 to 1972. He is a graduate of The Wharton School at the

University of Pennsylvania (M.B.A., 1968) and the University of Virginia (B.A., 1966).

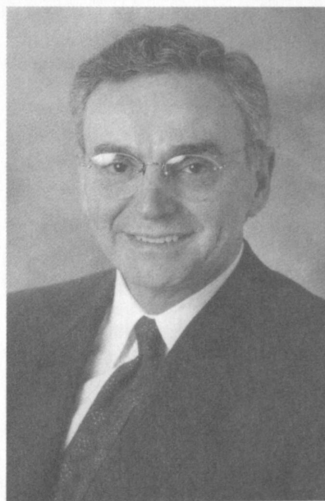
Joseph Bordogna

Commencement Speaker

Joseph Bordogna is deputy director and chief operating officer of the National Science Foundation. Complementing his NSF duties, he has chaired committees on manufacturing and environmental technologies within the President's National Science and Technology Council, was a member of the federal government's Technology Reinvestment Project team (TRP), and served on the Partnership for a New Generation of Vehicles (PNGV) Committee and the U.S.-Japan Joint Optoelectronics Project.

Dr. Bordogna received B.S.E.E. and Ph.D. degrees from the University of Pennsylvania and an S.M. degree from the Massachusetts Institute of Technology. In addition to his assignment at NSF, his career includes experience as a line officer in the U.S. Navy, a practicing engineer in industry, and a professor.

Prior to appointment at NSF, Dr. Bordogna served at the University of Pennsylvania as Alfred Fitler Moore Professor of Engineering, director of the Moore School of Electrical Engineering, dean of the School of Engineering and Applied Science, and faculty master of Stouffer College House, a living-learning student residence at the University.



Dr. Bordogna has made contributions to the engineering profession in a variety of areas including early laser communications systems, electro-optic recording materials, and holographic television playback systems. He was a founder of PRIME (Philadelphia Regional Introduction for Minorities to Engineering) and served on the Board of the Philadelphia Partnership for Education, providing, supportive academic programs for K-12 students and teachers.

Dr. Bordogna is a fellow of the American Association for the Advancement of Science (AAAS), the American Society for Engineering Education (ASEE), the Institute of Electrical and Electronics Engineers (IEEE), and the International Engineering Consortium.

David C. Nelson

1999 Outstanding Young Alumnus

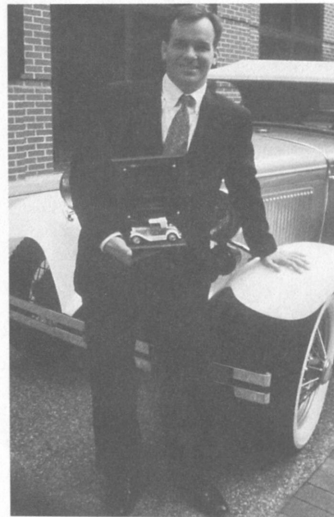
David C. Nelson, whose volunteer work includes organizing the Young Alumni Network, serving as a crew leader for the Atlanta Tool Bank, tutoring elementary school children, and working with TEAM Buzz on Atlanta community service projects, has been named the Georgia Tech Alumni Association's 1999 Outstanding Young Alumnus.

Director of estimating for John Wieland Homes, Mr. Nelson is a 1992 building construction graduate of the College of Architecture.

Mr. Nelson has been actively involved in the affairs of Georgia Tech since his student days. He was in the first recruited class of the Georgia Tech Student Alumni Association, an organization sponsored by the Alumni Association. As a member of SAA, he represented Georgia Tech on Atlanta's Friendship Force on a trip to Tbilisi, Republic of Georgia, in 1990. He wrote an article about his experience, "A Student's Notes from Soviet Georgia," which appeared in the Summer 1990 *Georgia Tech Alumni Magazine*.

Three years ago, Mr. Nelson transformed the Young Alumni Council into the Young Alumni Network, which serves to complement Georgia Tech Clubs as well as reach out to other young alumni. He is a member of the South Metro Alumni Club and received the 1997 Ramblin' Wreck Award, given to the club's top volunteer.

A crew leader for the Atlanta Tool Bank, an organization that lends tools to nonprofit groups for community service projects, Mr. Nelson was named



its 1999 Volunteer of the Year. In addition to volunteering a couple of weekends each month at the tool bank, he also helps remodel homes for the underprivileged in Atlanta.

He was a volunteer for TEAM Buzz in both 1998 and 1999, and last year, in addition to helping provide tools for the project, he joined a team working at the Goodwill Center.

From 1994 through 1996, Mr. Nelson tutored a child at Drew Elementary School, and from 1996 to 1998, he tutored a child from Harmony-Leland Elementary.

A former Roll Call Class Committee chair, Mr. Nelson is serving as overall chair of the Roll Call Class Committees. He is a member of the Roll Call's Thousand Club.

Mr. Nelson also serves on the College of Architecture's Building Construction Alumni Board, where he helps raise funds for scholarships and chair endowment, and also serves on the building construction curriculum committee and interviews scholarship candidates.

ACADEMIC REGALIA

The academic regalia worn by today's participants is a colorful relic dating back to the Middle Ages, when education was a function of religious organizations. The monks' habit and the cowl worn over their heads were predecessors of the modern black gowns and hoods. The mortarboard was developed from the skull caps worn during medieval days by churchmen officiating at religious services.

In 1894, American universities standardized gown styles for the three different types of degrees. Doctoral degree candidates wear the traditional black gown with full, round sleeves, velvet facings on the front, and velvet bars on the sleeves. Hoods are lined with the color of the university granting the degree. Hoods at Georgia Tech are lined in white and gold. The doctoral hood is distinguished by its blue trim, which is the color representing philosophy.

Master's degree candidates also wear the traditional black gown, with full-length square sleeves that have a crescent-shaped piece hanging from each sleeve. The master's hoods are also lined in white and gold and are distinguished on the outside by gold trim, the color of science. Recipients of the bachelor's degree at Tech wear a plain black gown and no hood.

Caps used by all Tech graduates are traditional mortarboard, and tassels are white and gold.

ACADEMIC DEGREES

The Bachelor's Degree

The bachelor's degree is the oldest academic degree used by institutions of higher education in America. This degree, which represents completion of a four-year course of study at the college level, was first awarded in 1642 to the graduating class of Harvard College.

The Master's Degree

The master's degree represents the successful completion of one or two years of study beyond the baccalaureate degree. This academic honor, which dates back to the establishment of the oldest universities in Europe, usually requires a thesis and an oral examination.

The Doctoral Degree

The doctoral degree is the most advanced academic degree conferred by American institutions of learning. "Doctor," which means teacher or instructor, was used as a title in the twelfth century to denote men of great learning. It was first used as an academic title at the University of Bologna in Italy.

THE ALMA MATER

Music by Frank Roman

Words by I. H. Granath

Oh, sons of Tech, arise, behold!
The Banner as it reigns supreme,
For from on high the White and Gold
Waves in its triumphant gleam.
The spirit of the cheering throng
Resounds with joy revealing
A brotherhood in praise and song,
In memory of the days gone by.
Oh Scion of the Southland!
In our hearts you shall forever fly.
We cherish thoughts so dear for thee,
Oh, Alma Mater in our prayer.
We plead for you in victory,
And in the victory we share!
But when the battle seems in vain
Our spirits never falter,
We're ever one in joy or pain
And our union is a lasting bond.
Oh! May we be united
Till the victory of life is won.

THE RAMBLIN' WRECK

I'm a Ramblin' Wreck from Georgia Tech
And a hell of an engineer
A helluva, helluva, helluva
Helluva, hell of an engineer.
Like all the jolly good fellows,
I drink my whiskey clear.
I'm a Ramblin' Wreck from Georgia Tech
And a hell of an engineer.

Oh! If I had a daughter, sir,
I'd dress her in white and gold
And put her on the campus
To cheer the brave and bold.
But if I had a son, sir
I'll tell you what he'd do—
He would yell "To Hell with Georgia"
Like his daddy used to do.

Oh! I wish I had a barrel of rum
And sugar three thousand pounds,
A college bell to put it in,
And a clapper to stir it 'round.
I'd drink to all good fellows
Who come from far and near.
I'm a Ramblin', Gamblin'
Hell of an engineer.

COLLEGE OF COMPUTING

The College of Computing is a leader in integrating computer science with other disciplines to address problems in communication, education, and health. Through its interdisciplinary charter, the College has forged relationships with nearly every unit at Georgia Tech and several universities around the world. The College also has two centers for interdisciplinary research: The Broadband Telecommunications Center and The Graphics, Visualization, and Usability Center (ranked #1 in the country).

As of fall 1998, undergraduate enrollment totaled approximately 1,185 and graduate enrollment totaled approximately 235.

Prominent alumni from the school include Craig Mundie ('71, '72), senior vice president, Microsoft; Jim Allchin ('83), senior vice president, Microsoft; Jody Dyer ('71), director, Encore; James Folsom ('70, '72), CEO, Placeware; Edith M. Martin ('76, '80), chief financial officer, Eastman Kodak; and Githesh Ramamurthy, ('83), president, CCC Information Services Inc.

IVAN ALLEN COLLEGE

The Ivan Allen College, created in 1989, represents a unique configuration of academic disciplines, including the humanities and the social sciences, designed to work within the technology emphasis of the Georgia Tech environment. The six schools within the College include Economics; History, Technology, and Society; International Affairs; Literature, Communication, and Culture; Modern Languages; and Public Policy. The College now has approximately 100 faculty members, 457 undergraduate students, and 141 graduate students.

In addition to promoting active research in a wide range of areas, the College also has earned a well deserved reputation for excellence in teaching. One of the ongoing initiatives that cuts across the College is the increasing application of computers in the classroom. The College has been an innovative leader in information technology.

Many Ivan Allen College graduates have become respected professional and national leaders.

COLLEGE OF ARCHITECTURE

The School of Architecture became the College of Architecture in 1975. In the fall of 1998, 583 undergraduate and 236 graduate students were enrolled in the various academic programs of the College: architecture, building construction, city planning, and industrial design. The College also includes the Department of Music and the Division of Fine Arts.

Some of the College's more prominent alumni include George Heery ('50), former chairman of the board, Heery International Inc., and designer of the Coca-Cola Building; John Portman ('50), John Portman and Associates, designer of Peachtree Center, the Hyatt Regency-Atlanta, the Marriott Marquis, and the Westin Peachtree Plaza; Hugh A. Stubbins Jr., ('33), chairman and CEO, The Stubbins Associates Inc., designer of the Citicorp building in New York City and the Ronald Reagan Presidential Library; and John A. Busby ('56), Jova Daniels Busby, Architects, and past president of the American Institute of Architects.

Research programs in the College of Architecture include the Center for Rehabilitation Technology, the Construction Research Center, and the Center for Geographic Information Systems.

DUPREE COLLEGE OF MANAGEMENT

The DuPree College of Management is dedicated to creating the business and professional leaders of tomorrow. The College was established at Georgia Tech in 1913 and has been accredited by AACSB, the International Association for Management Education, since 1921. The College has three centers for interdisciplinary research: The DuPree Center for Entrepreneurship, which fosters entrepreneurial activity among Georgia Tech students and faculty and the business community; The Center for International Business Education and Research (CIBER), which serves as a catalyst for integrating and advancing a number of diverse activities relating to international business education and research; and The Center for International Quality and Change Leadership, which focuses on education and research on continuous quality improvement and total quality.

Current enrollment in the College includes: 950 undergraduates, 178 graduate students, 92 students in the Executive Master's Program in the Management of Technology, and 28 Ph.D. students.

Prominent alumni of the College include: Thomas E. DuPree Jr., chairman and chief executive officer, Avado Brands Inc.; James R. Lientz, president and chief executive officer, Bank of America of Georgia; Charles W. Brady, chairman of Invesco Capital Management; James P. Poole, president of Employer-Employee Security Plans Co.; and Julian LeCraw, president of Julian LeCraw & Company.

COLLEGE OF SCIENCES

Established from the College of Sciences and Liberal Studies, the College provides programs in the natural, mathematical, and behavioral sciences. The specialized

academic programs in the schools of Biology, Chemistry and Biochemistry, Earth and Atmospheric Sciences, Mathematics, Physics, and Psychology attract students who have strong interest in science and mathematics and are interested in relating their educational experience to social, governmental, industrial, and postgraduate fields.

Some high-profile graduates of the College are Ashworth Stull (Chem '37), inventor of "White Glue" that became known as Elmer's Glue; Glen P. Robinson Jr., (Phys '48 and '50), founder of Scientific-Atlanta and owner of patents on solar energy and antenna systems and energy; Kary B. Mullis (Chem '66), inventor of polymerase chain reactions and Nobel Prize recipient; Gilbert F. Amelio (Phys '65, '67, '68), former chairman and chief executive officer, Apple Computer; and Nancy "Jan" Davis (Biol '75), astronaut.

COLLEGE OF ENGINEERING

Eighteen eighty-eight marked the opening of the Institute and the establishment of the School of Mechanical Engineering. As of fall 1998, the College of Engineering, now incorporating nine degree-granting schools, had a total enrollment of 8,452.

Outstanding alumni of the College include Robert B. Ormsby ('45), president, Lockheed Corporation-Aeronautical Systems Group; astronauts John Young ('52) and Richard Truly ('59); Ronald Wayne Allen ('64), former chairman and CEO of Delta Air Lines; C. J. "Pete" Silas ('53), former chairman and CEO of Phillips Petroleum Co.; Thomas J. Malone ('63), president and CEO, Milliken and Company; Malcolm T. Stamper ('46), vice chairman of the board, Boeing Company; and former President Jimmy Carter ('46).

The College of Engineering consistently ranks among the top five engineering schools in the country in both the size and quality of its programs, and is nationally recognized for excellence in both undergraduate and graduate education.

ATHLETICS

At Tech, academics and athletics truly do mix, and the Institute is rich in both traditions. Georgia Tech competes on the NCAA Division I level within the nine-member Atlantic Coast Conference, a league that places high emphasis on academics. Memorable alumni include Robert Tyre "Bobby" Jones, 1930 winner of golf's Grand Slam; Olympic gold medalists Antonio McKay, Derrick Adkins, and Derek Mills, track; Mark Price and John Salley, basketball; and 13 members of the National Football Foundation's College Football Hall of Fame.

Tech athletes have been led by legendary coaches such as R. L. "Bobby" Dodd, 1946-66; John W. Heisman, 1903-19; William Alexander, 1920-45; and John "Whack" Hyder, 1952-73.

Intramural sports are available to all students. More than 20 activities, ranging from crew to weight training, are offered.

GEORGIA TECH RESEARCH INSTITUTE

The Georgia Tech Research Institute (GTRI) is a nonprofit, client-oriented, applied research organization that is an integral part of the Georgia Institute of Technology. It was chartered by the Georgia General Assembly in 1919 and activated in 1934. GTRI plans and conducts focused programs of innovative research, education, and economic development that advance the global competitiveness of Georgia, the region, and the nation. Working closely with academic colleges and interdisciplinary centers in areas of research, education, and service, GTRI plays a vital role in helping Georgia Tech reach its goals. Specific missions include: conducting scientific, engineering, and industrial research; participating in national programs of science, technology, and preparedness; encouraging the development of Georgia's natural resources; aiding industrial and economic development; and furnishing technical advice and assistance to business and industry.

LIBRARY AND INFORMATION CENTER

The Georgia Tech Library functions as a client-oriented information center focusing on the data and information needs of students, faculty, and staff.

The first Library of Georgia Tech was established in 1899 and consisted of a room in the Administration Building housing fewer than 2,000 volumes. Now the Library contains more than 3 million volumes; a complete collection of U.S. patents; and more than 2 million technical reports, government documents, and industrial standards.

The explosion of scientific and technical information and the advent of computing, networking, and multimedia technologies are the foundation of the evolution of the Library from a building of books to a learning and information center. The Library was the first in the nation to provide local on-line information retrieval capabilities. The Georgia Tech Electronic Library offers a variety of databases to students and faculty for research, class assignments, and personal information.

The Library has a special responsibility to preserve the history of science and technology. The rare books and medals collections are part of that important preservation effort.

The Mace

In academic ceremonies, the mace is an ornamental staff carried as a symbol of authority. The office of the mace bearer, though purely ornamental, dates back to medieval England when special occasions required the use of a bodyguard. In colonial America, the mace became a symbol of office when it was used in conjunction with academic regalia.

The Georgia Tech mace carried in today's ceremony was designed by Cabell Heyward, a former research scientist in the College of Architecture, and was first used in April 1988 at the presidential inauguration of John P. Crecine. The mace was made possible by a gift from the Georgia Tech Student Foundation and the Class of 1934.

The primary focus of the mace is its three brass rods, which demonstrate the principle of "tensegrity," a concept of structure combining tension and integrity developed by R. Buckminster Fuller in 1927. The integrity, or wholeness, of the mace is maintained by each of the rods being held in place by the tension of the steel wire; the rods do not touch one another at any point.

The brass rods symbolize the three primary components of Georgia Tech's mission: education, research, and service. The gold color of the brass and the white color of the steel wire represent Georgia Tech's colors. The mace also incorporates three silver metallic seals, which are reproductions of the official seal of the state of Georgia, the original seal of Georgia Tech, and the current seal of the Institute.



The mace was fabricated by Mr. Heyward and Arthur Schoenfeld, who are both formerly from the Center for Rehabilitation Technology in the College of Architecture, in conjunction with Atlanta jeweler Robert Nagle.

Commencement Committee

Office of Institute Communications and Public Affairs Staff

Aimee Anderson, Andrea Brown, John Mark Gore,
Richard Hermes, Stanley Leary, Nita Richard,
Dan Treadaway, and Tammy Tuley

Jo McIver, registrar

Scott Verzyl, Anna Lindberg,

Barbara Howard, Winnie Tsang-Kosma, Julie Peterson, and
Staff, Registrar's Office

Bettina Cothran, Bill Johnson, Frank Pilipp, announcers

Glenna Thomas, Graduate Studies

Kirk Reeves and Staging Staff, Plant Operations

Jack Vickery and Staff, Campus Police

Dr. Eugene Patronis, sound designer

Bucky Johnson, Ron Mendola, William Caldwell,

and Christine Marks, Department of Music

Lisa Conley and Lisa Nickel, Alumni Programs

Leonard Nagel, coordinator, commencement
reception/luncheon

Sheryl Ballenger and Dan P. Carlson, Student
Affairs (ADAPTS)

Student Ambassadors

White and gold ribbons on today's diplomas were hand-tied by disabled employees of the Bobby Dodd Center in Conyers, Georgia. Former Georgia Tech Coach Bobby Dodd was instrumental in securing funding for the vocational rehabilitation training facility that bears his name.

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