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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
197th Commencement
December 13, 1997
Alexander Memorial Coliseum***

Welcome to the 197th 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 900 undergraduate and graduate students, today's ceremony recognizes their academic achievements at Georgia Tech and inaugurates a new era in their careers.

Commencement Program
Fall Quarter 1997
December 13, 1997
10:00 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, YMCA
NATIONAL ANTHEM	Georgia Tech Brass Ensemble
COMMENCEMENT ADDRESS	Mr. Bill Dahlberg chairman, president, chief executive officer Southern Company
INTRODUCTION OF ACADEMIC DEANS	Mike Thomas, Provost and vice president for Academic Affairs
PRESENTATION OF UNDERGRADUATE DEGREE CANDIDATES	College of Computing Associate Dean Richard LeBlanc Ivan Allen College of Management, Policy, and International Affairs Dean Robert G. Hawkins College of Architecture Dean Thomas D. Galloway College of Sciences Dean Gary Schuster College of Engineering Dean Jean-Lou Chameau
CONFERRING OF DEGREES	Dr. Clough

PRESENTATION OF MASTER'S DEGREE CANDIDATES	Dr. Jean-Lou Chameau, dean of the College of Engineering, vice provost for Research and dean of Graduate Studies
CONFERRING OF DEGREES	Dr. Clough
PRESENTATION OF DOCTORAL DEGREE CANDIDATES	Dr. Chameau
CONFERRING OF DEGREES	Dr. Clough
INDUCTION INTO THE ALUMNI ASSOCIATION	Mr. Frank Spears, Class of 1973, President, Georgia Tech Alumni Association
PRESENTATION OF THE JOSEPH MAYO PETTIT ALUMNI DISTINGUISHED SERVICE AWARD	Mr. Spears
ALMA MATER	Georgia Tech Chorale Dr. William Caldwell, Director
FACULTY RECESSIONAL	Georgia Tech Brass Ensemble
“RAMBLIN’ WRECK”	Graduates and Audience

*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 Candidates

College of Computing

Bachelor of Science in Computer Science

Highest Honor

Maria Loretta Gullickson
Salman Khatri

High Honor

Steven J. Lin
Stephen Tobias White

Honor

Patrick Kristopher Kelley
Masud A. Mahdi
Richard A. Sottilaro

Dedrick Weston Duckett
Robert William Gregg
John William Haskins Jr.
Philip Joseph Hebert IV
Rajagopal Lakshminarayan
Robert Stephen Martin
Geoffrey Menegay
Gregory James Pauswinski
Enda Donald Sullivan

Bachelor of Science in Computer Science

Cooperative Plan

High Honor

Brian Phillip Leslie

Ivan Allen College of Management, Policy, and International Affairs

Bachelor of Science in History, Technology, and Society

High Honor

L. Scott Clarkson

Honor

Serena Annette Garner

Stephen Francis Callaghan Jr.
Tim M. King

Bachelor of Science in Science, Technology, and Culture

Michael David Alberghini
Jonathan Wolff Hughes
James Michael Norris
Cameron Yardley Reed

Bachelor of Science in International Affairs

Michaela Brigitta Berndt
Christopher Michael Cunniff
Jonathan Paul Phillips

Bachelor of Science in Economics

Joshua William Coffield
C. Todd Milligan
Daniel Eric Tancredi

Bachelor of Science in Management

Highest Honor

Allison Brooke Kelly

High Honor

James Edward Kolz

Honor

Richard Howerton Battle
Christopher Michael Castro
Jennifer Marie Chirico
Vicky Regina Cook
Cynthia Anne McAlister

Ashley Barksdale Bowen
M. Jill Burnham
Andrew Robert Bush
Erin W. Carter
Charles York Chambers
Wai Cheng Chan
Brian Dave Chin-You
Thomas Gordon Cloud Jr.
Catherine Hope Dart
Mary Genevieve Davis
Michael Edward Dee
Thu-Uyen Thi Do
Nathan Todd Dorris
Kevin John Doughty
Mary Catherine Dudley
Kisha Angeline Ford
Andrea Catherine Goodno
Alyce Rachel Green
Anna Maria Haile
Erik James Hostetler
Inman Jharel Houston
Benjamin Wesley Kauffman
Elizabeth Anne Kirchner
Jared Blake Knight
Jeannie Jenchun Lai
Matthew David Lawn
Job Meiller
Jody Estel Murnane

Peter Eric Niesen
John Allen Nivens Jr.
Kelly Kristin Phillips
Deidre R. Pickering
Jeffery Dennis Rhodes
Shana Elizabeth Rosencrantz
Paul Daniel Smith
Steven Scott Strickland
Isaac Jordan Thompson
Charles A. Vernau
Troy James Whyte
Heather Orion Wimberley

Bachelor of Science in Management

Cooperative Plan

Honor

Serena Annette Garner
Scott Mitchel Voigt

Margaret Holly Mersereau

Bachelor of Science in Management Science

James Gordon Martin Jr.
John Arthur Messing Jr.
Jason Monroe Youmans

College of Architecture

Bachelor of Science

Highest Honor

Ina Jalene Heung

Mathew Colin Greist
William Sabino Guisto
Bob Ryan Kaimo
Eric Russell Parker
Alexander Hans Pfeiffer
Max G. S. Wang

**Bachelor of Science in
Building Construction**

High Honor

Erica C. Hammond

Honor

Barry Wayne Dunlap

Eric Michael Taylor

William Duane Horton

Andrew Joseph Kiehle

Alice Taylor Stone

Cathy Ann Zimmerman

**Bachelor of Science in
Industrial Design**

Honor

Amanda King Skelton

College of Sciences

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

High Honor

Tracy Lynn Clymer

Michael Davis Jordan

**Bachelor of Science in
Applied Biology**

Highest Honor

Pooria Sabetazm

High Honor

Francesco Checchi

Jonathan Graves Dorn

Mariam Nader Maghribi

Honor

Slava M. Belenkiy

Tabitha Elaine Ambrose

Bonnie Lynn Barsh

Jason Todd Cash

Jessica Dawn Fogel

David Preston Gouge

Sofia Aman Khan

Kelly Lynn McMurrer

Quetia Bernadette Milledge

Katrina Maria Raffaelli

Ichha Singh

Terri Denise Whitlow

Edward Charles Workinger

Natalya A. Zilberman

**Bachelor of Science in
Applied Psychology**

Honor

Christopher Michael Castro

Jennifer Lynne Brooks

Brian Christopher Danforth

Raphael Isaac Falk

Joseph Allan Lamb

Michael Everett Molnar

Chong Hyon "Richard" Pak

Chun-Joong Pak

Jennifer Diane Stickney

**Bachelor of Science in
Applied Mathematics**

Highest Honor

Aaron Asher Temples

Cory Alan Edwards

Irina V Shleyfman

**Bachelor of Science in
Discrete Mathematics**

Keith DeWitt Myers

**Bachelor of Science in
Physics**

Casey Jones

**Bachelor of Science in
Chemistry**

LiChia Louie Chen
James Michael Norris
Kathryn Suzanne Soppelsa Simmons

College of Engineering

**Bachelor of
Materials Engineering**

Matthew Donald Adams
Matthew Quillian Chester
Nicole Hablutzel
Eugene Lee
Tony Michael Youngblood Jr.

**Bachelor of
Materials Engineering**
Cooperative Plan

Harry Crawford King III

**Bachelor of
Computer Engineering**

Highest Honor
Khai Nhut Truong

High Honor
John S. Bragiel
Matthew Brien Klobukowski

Honor
Kevin Michael Rice

Fionne Trinette Austin
William Charles Bouverie
James Stanley Bronner
Damian Bucovsky
Sek Loong Chai
Marcus Dwight Cobb
Keith Jermayne Fortenberry
Stacey Bernard Herring
David Anthony Ingram
George McDonald Langdon
Fernando Aramis Lopez
Debra Ann Owens
Darva L. Reynolds
Johnathan David Samples
Abdullah Shaker
Latitia Michelle Stanley
Jomo Kenyata Willacy

**Bachelor of
Computer Engineering**
Cooperative Plan

Highest Honor
Todd Matthew Barkley

Honor
Kevin Dean Levron

**Bachelor of
Industrial Engineering**

Highest Honor
Alison Marie Ewasiuk
Joshua L. Millikan

High Honor
Jeremy Scott Cardinal

Honor
Isaac Daniel Falk

David Scott Anderson
Rodney Loren Appling
William Joseph Mogabgab Berryman

William Roy Blanton
James Francis Bonk
Brian Eric Bowers
Julie Nicole Brown
Matthew Miele Butler
Lorina Danielle Carney
Leon Sylvan Chapman
Kristina Chao-Tsi Chow
Gregory Joseph Cusumano
Gabriel Miller Dutton
Mario Ernesto Fernandez
Quinn Aristide Fung-A-Wing
William Robert Halasz Jr.
Jennifer Marci Henderson
Cory Elizabeth Herman
Kevin Soon Ju Hwang
Camica Lyneé Johnson
Florence Maggie Jones
Rebecca Lyn Kelly
Daniel David Kopp
Joshua Kowall
Terry Bryant Lee
Jonathan Craig Maguire
Charles Defoe McLaren
LaDoris McLaughlin
Michele Erin Montague
Meredith Cecile Moore
Holly Anne Nemecek
Keith Bradley Rabin
Dana Bryce Ringle
Michael Edward Roman Jr.
Jalal-Uddin A. Slade
Kevin Robert Stock
Jennifer Anne Strange
Francisco Trejo
Gregory Chung-Tong Tsou
Claire Nanette Ughetto
Timothy Christopher Vatne
Kirk Taylor Waldrop
Barry Clifton White
Yuka Yamazaki
Salman Yusuf

**Bachelor of
Industrial Engineering**
Cooperative Plan

Highest Honor
Stephanie Lynn Earl

High Honor
Seth Hiram Conrad
Brian Thomas Gowan
Lily Yue Jin
Timothy Michael Marchman Jr.
Thayer Jeremiah Tate
King Caleb Timmons

Honor
William B. Bivens
Stephen Matthew Heimbigner
Katrina Rose Winter

Evan Alini
Jason Micah Bearden
Kelly June Brock
Brian Joseph Griggs
Coy Steven Moragne
Daniel Brennan Phillips
Keith Wesley Smith
Benjamin Corey Strupp
Christopher Thomas Walzer

**Bachelor of
Aerospace Engineering**

Scott M. Decker
Adam Lee Frank
Joshua Michael Klapper
Jeffrey Tooley

**Bachelor of
Aerospace Engineering**
Cooperative Plan

Eiji Sugi
Charles Brent Trotter

Bachelor of Chemical Engineering

Highest Honor
Dung Phuoc Le
Evan Hopkins Owens
Manisha Sharad Shetty
Stephen Lief Simonsen
Tinh Vi Tran

Kristina Nicolle Brown
Jeffrey William Clark
Carl Monroe Conatser
Keshava Belur Dasarathy
Alethea C. Davis
Douglas Wayne Deal
Heather Lynette Graham
Khoa Thuc Ha
David Jaya Prawira
Mitchell John Rutledge
Lena Lei Stefansen
Christopher Thomas Tanaka

Bachelor of Chemical Engineering

Cooperative Plan

High Honor
Pradeep Kanithahalli Satya-Prakash

Honor
Isaac Wesley Moore

Lanicia Marquetta Harvey
R. Scott Rice
Antwain Demone Taylor
Alan Patrick Wrenn

Bachelor of Science in Polymer & Textile Chemistry

High Honor
Stephanie Kay Staron
Joyce Tirado de Watson

Bachelor of Science in Textiles

Yetunde Adeleke Jude
Yong Mi Jessica Song

Bachelor of Textile Engineering

High Honor
L. Scott Clarkson
Kaci Lynn Mills Nash

Bachelor of Civil Engineering

Highest Honor
Andrea Claire Powell
Ernesto Jose Solera

High Honor
James Brian Denham
Patricia Fabiola Sepúlveda
Brian Wesley Williams

Honor
Bradley Watson Cliatt
Francis Gordon Sisk II
Laura Elizabeth Williams

Melyssa Robin Barnwell
Juan Edward Bostwick
Scott Daniel Cannon
Darrell Scott DeLaney
Luke Denny
Tiffany Abigail Dickey
Tina Marie Foxx
Darren Robert Himmelbaum
Bryon Cameron Letourneau
Jessica Rachel Marcus
Stacy Danielle McCormack

Shawn Patrick McGovern
Thomas Duran Newsome
Courtney Jo Nolan
Cheryl Lynn Norwood
David Matthew Pellinger
Kristi L. Sanford
Geoffrey Arthur Sarra
Amy Michelle Shepherd
Brian Kenneth Tuck

**Bachelor of
Civil Engineering**
Cooperative Plan

High Honor
Benjamin Christopher Clopper
Kari Lynn Edison

Alexander Nicholas Duda
Andrew Forrest Durham
Pamela Kay Ehrig
Leon Lawrence Nash
Jeffrey Hunter Pike

**Bachelor of
Electrical Engineering**

Highest Honor
Michael Warren Bagwell
Todd Christian Haber
Matthew Edmund Lee
Tan Phuoc Nguyen
Steven Paul Nugent
Jeffrey Dwight Potts
Troy Alan VanAacken
Tsz H. Yuen
Samuel Itier Zurita Rodriguez

High Honor
Caroline MayLing Chng
Jacques Michael Ragan
Mitchell E. Rolnick

Honor
Shakita A. Dennis
Trung Chi Nguyen
Arvind Raman
Brent L. Robertson
William Marshall Vincent

Martin Christopher Battaglio Jr.
James Brian Berlin
Timothy Charles Burke
Douglas Alan Burkhardt
Collin Ray Campbell
Patricia Ann Carson
Brian Scott Cook
Anna Marie Cooks
Justin Stanford Davis
Antrach Tan Dinh
Byron Myrtis Donald
David Allen English Jr.
Kermit Lionel Jones
Floyd Antonio Keels
Nam Kyun Kim
Jae Chul Lee
Edlyn Marquette Lewis
Ricardo Camargo Lu
James Scott Mosko
James Allen Nygaard Jr.
Darren Edwin Pado
Chong Dok "Mike" Pak
Jhoung Hyun Pak
Kasim Anthony Roebuck
Catherine Lynne Thomas Sana
Donville Delano Smith
Thomas Benjamin Smith
William Todd Smoak
Michael Antonio Thompkins
Ching Man Yang

**Bachelor of
Electrical Engineering**
Cooperative Plan

Highest Honor

Carl Michael Adkins
Steven Alexander Lee
Kari Lyn Hundley Martin

High Honor

Eugene Garcia-Carreras
Seth Fleming Patterson
Kurstin David vonHausen

Honor

Jean Wen Hu
Aaron Jason Gunn
Todd Jason Pritts
Gazelle Lynn Soares
Aaron Steven Tahan

Jeffrey E. Brown
Joshua David Hackney
Jeffrey Lane Hill
Charles M. Joye III
Drew Joseph Martino
Matthew James Smith
Catrina S. Somerville
John Thomas Trainor

**Bachelor of
Mechanical Engineering**

Highest Honor

Jada Elaine Center

High Honor

Erik Wesley Hall
Michael Anthony Mignatti
Keith Stefan Mikulka

Honor

Michael Allen Bell
Christopher C. Capuano

Patrick Everett Minor
John F. Moreno Jr.
Jay Kirit Parekh
William Joseph Eugene Vaughan Jr.

Deance Deria Boseman
Timothy Allen Davis Jr.
William Shaffer DuBose
Teddy Gregory Gil
Matthew Robert Greiner
Inchol Bret Hwang
Jennet Ellen Johnson
Brian Jonison Lewis
Lee Ann Marshall
Steven Timothy McWilliams
Thomas Willis Moreland
Benjamin Frederick Newkirk
Depashkumar Balubhai Patel
Roman Pracko
Darius Lloyd Prysock
Brent Lorenz Rose
Pamela Lin Sanders
Rahul Saxena
Tauna Kaye McNeil Soller
Matthew Duane Thompson
Akwetee Duane Watkins

**Bachelor of
Mechanical Engineering**
Cooperative Plan

Highest Honor

Shawn Michael Bennett
Joseph William Boehm
Seng Chan
Kevin Scott Davis
Rafael Alvaro de Cardenas
Todd Lawrence Levine
Felipe Alonso Varela

High Honor

Alberto Thaler Ezban
Ashleigh Shannan Roland
Robert Joseph Schmitt

Honor

Robert Patrick Cooney
Gregory Ross Norton

Elizabeth Anne Bryant
Jason Forrest Clark
Jennifer Lynn Booth Craine
Joseph Corry Craine III
Andrew Joseph Gavaletz
John Robert Harris III
Brian Keith Jaeger
Scott Michael Kowalczyk
Eric David Lincoln
Kong Chung Lui
John Brandon MacMillan
Kelly Anne McDonald
Albert Joseph Miller
Theodore Mowinski II
Chan Pham
Adolfo Salas III
Alex Johann Omar Simpson
Algernon Tremain Wallace
Alexandria Faye Wynn
Carl Henry Zinn III

Master's Degree Candidates

Master of Science

Francois-Xavier Abrial
Electrical Engineering

Paul Kodzo Agboati
Environmental Engineering

Milad Adel Badawi
Electrical Engineering

Lance Victor Bays
Aerospace Engineering

Randall Sulter Booker Jr.
Environmental Engineering

Fawn Amanda Boyd Vigil
Earth and Atmospheric Sciences

David Michael Brann
Industrial & Systems Engineering

Walter Alexis Bustelo
Aerospace Engineering

Zhong Chen
Aerospace Engineering

Chih-kai Chuang
Industrial & Systems Engineering

Jason Elston Cosby
Civil & Environmental Engineering

Michael Iran Daniel
Electrical Engineering

Jun Jian Dou
Electrical Engineering

Wendell Scott Dunn
Civil & Environmental Engineering

Reid Pratt Eastburn
Economics

Michelle Lee Floyd
Environmental Engineering

Christelle Marie Fontbonne
Management

Fabrice Daniel Fortin
Management

Lixin Fu
Electrical Engineering

Tie Kan
Electrical Engineering

Seungjae Lee
Mechanical Engineering

Shengquan Liang
Aerospace Engineering

Jairo R. Linares
Architecture

Frédric Jean Longatte
Electrical Engineering

Andrew Paul Madsen
Architecture

Brian Thomas McHugh
Civil Engineering

Dawn H. Miller
Civil & Environmental Engineering

Luis Manuel Nelson Pino
Industrial & Systems Engineering

Son Viet Nguyen
Electrical Engineering

John Andrew Pape
Mechanical Engineering

Anh-Vu Huynh Pham
Electrical Engineering

Craig R. Pierce
Environmental Engineering

Pradnya Avinash Pradhan
Economics

Anne Aurelia Puech
Management

Osama Rafiq Qadan
Electrical Engineering

Alan Hugo Ristow
Electrical Engineering

Gordon Desmond Bradford Roberts
Aerospace Engineering

José A. Rodríguez Dominicci
Environmental Engineering

Javier Alejandro Ruiz
Industrial & Systems Engineering

Jasmine S. Shah
Environmental Engineering

Darrell Randall Simpson
Civil & Environmental Engineering

Anand Srinivasan
Environmental Engineering

Joerg Hermann Stromberger
Environmental Engineering

Ramanarao V. Tamma
Aerospace Engineering

Gregory Stewart Tew
Mechanical Engineering

Man-Yi Tseng
Industrial & Systems Engineering

Philip Hamilton Vanness
Electrical Engineering

Charles Raven Whatley Jr.
Economics

Elizabeth W. White
Textile Engineering

Oliver Daniel Wong
Aerospace Engineering

Qingxi Xia
Mechanical Engineering

Weidong Xie
Aerospace Engineering

Chung Youl Yoo
Architecture

Haichuan Zou
Textile Engineering

Master of Science in Management of Technology

David Laddie Batka
Richard Anthony Burge
Luis Fernando Calderón
Stanley Edward Chilton
John Jeffrey Clower
Tyler Lewis Craig
Frederick Kenneth Farmer
Sanjay Kumar Gupta
Stanley McNeal Hoptroff
Stanley Adam Hughes
Mychal Vaughn Jackson

Thomas Henry Jankowski
Christopher Scott LaBelle
Jimmy Leon
Paul Norman Loveless
Peyton Meriwether McManus
Yaser Abdullah Mowafi
John David Parker
Carl Podlesny
Edward Louis Prevost III
Belkis Margarita Quintas
Karen Leialoha Ray
Robb C. Reed
Richard Keith Sampson
Robert G. Sherman
David Neil Sillars
Murry Dan Smith
Richard W. Stevens Jr.
Jean Marie Swank
Nicholas Don Voigt
John A. White
Matthew Joseph Williams

Master of Science in Bioengineering

Francois Chiron

Master of Science in Information Design and Technology

Carla Sabrina Florez
Kiyoshi Watanabe

Master of Science in Public Policy

Joseph David Dunagan
Rochelle Iris Routman

Master of Science in Polymers

Karthik Nagapudi
Runqing Ou

Xueqin Wang
Fang Yang

Master of Science in Statistics

James Bradley Heil

Master of Science in Technology and Science Policy

Stephen John Danyo

Master of Science in Health Physics

Ronald William Frick
Adam Derek Nielsen

Master of Science in Earth and Atmospheric Sciences

Ryan Alan Gesser

Master of Science in Health Systems

Robert Eric Baker
Michael Fumio Furukawa
Ekaterini Skariba

Master of Science in Computer Science

Fabian Ernesto Bustamante
Thomas Lodge Coffin
Michael Caldwell Macaluso
Sameer Suresh Mahajan
Tao Pan
Bryan Edward Rank
Bin Tan
Xiaohong Xu

**Master of Science in
Nuclear Engineering**

Diane Christine Norris

**Master of Science in
Psychology**

Peter James Batsakes
John Spencer Cobb
Jim Davies
Jeffrey Paul Harper
Megan Mary Moloney
David Anthony Philbin
Gong Wang

**Master of Science in
Applied Biology**

Sean Gilrea Eubanks
Jayati Kesavan
Hitesh Nagin Lala

**Master of Science in
Applied Mathematics**

Tao Pan
Robert David Sanders

**Master of Science in
Operations Research**

Juliana Karen Gaudin
Michael Shane McGuinn
John Andrew Old
Berna Yenice

**Master of Science in
Industrial Engineering**

Karin Elisabeth Anderson
Maria Basabe MacGregor

Jun Chen
Matthew Todd Damrau
Özgün Ileri
Bhagvan Kommadi
David Jude Newton
Fauza Nizar
Alfian Salim
Deborah Anne Summers
Jose Luis Trejo Meza

**Master of Science in
Applied Physics**

Neal Lee Blessinger

**Master of Science in
Management**

Chandresh Chinubhai Desai
Sumeet Pradeep Shroff

**Master of Science in
Aerospace Engineering**

Peter Xavier Bellini
John Edward Bradford
Hsuan-nien Chen
Jeffrey Marc Freeman
Elena Garcia
Nathan Robert Hines
Zia Ur-Rehman Khan
Inn B. Kim
Valeria La Saponara
Tobias Laps
David Jeremy McCormick
Erik Davin Olson
Lanchi Ouyang
Bryce Alexander Roth
Manu Sharma
Liliana Villarreal Segura
David Wesley Way

Master of Architecture

Tracey Elaine Ford
Sandra Leonora Johnson
Ajay Nambiar
William Erik Poole

Master of City Planning

Wendell Scott Dunn
Brian Thomas McHugh

Master of Science in Chemistry

Randall Scott Bryant
Lagree Michael Burke Jr.
Virginia Marie Ferrell
Jason Dietrich Jasper
Albert Michael Morrison
Matthew John Oesterle
Jing Shi
Marian Vargas Braña

Master of Science in Materials Science and Engineering

Mark Anthony Davidson
Manish Deepak Dighe
Edu Owominekaje Enin-Okut
Jake Daniel Haase
Robert N. Morano
Adam Richard Nagel
Ari Slamet Budi Rahardjo

Master of Science in Chemical Engineering

Jurron Lemetrius DeShay Bradley
Laurence Adam Brickman
Chantal Jouret

Ivana Jovanovic
Rodney Karrell King
Nithya Mahalakshmi Lakshmanan
Michael Milani
Kimberly Faye Webb

Master of Science in Textiles

Jodi Marie Shephard

Master of Science in Textile Chemistry

Lee John Berry

Master of Science in Textile Engineering

Todd Evan Hamby
Yang Rao

Master of Science in Environmental Engineering

Chatpong Assavakarint
Ching-Ju Chin
Bryon Douglas Dahlgren
Brian David Gray
Huai-De Huang
Laura Elizabeth Loverde
Shih-Chien Lu
Songmei Luo
Sung Kyu Maeng
Supatpong Mattaraj
Jennifer Nicole McMahon
Tung-Yu Ying

Master of Science in Civil Engineering

Rasaq Layiwola Atanda
Steven Howard Baden
Manuel Higinio Barrelier Duran
Daniel Paul Carroll
Mark Allen Champney
Jason Theodore De Jong
Laurel Elin Empie
Kimberly Ann Finke
Joseph Bret Gillis
Stephen C. Grice
Leah Virginia Guillebeau
Jonathan Taylor Hirsch
Madenga Gilles Le Boudier
Hiuri Soares Leal
Paul Christopher Marshall
Maria C. Melendez
Yasmin Moreno
Aaron Geoffrey Noyes
Darren Matthew Pence
Andrés Ramírez
Andrew Clay Sain
Michael David Smith
Peeranan Towashiraporn
David Eric Troemel
Thomas G. Udell
Jose Hugo Villegas
Scott Carter Williams
Catherine Berglund Wilmeth
Jingsong Wu

Master of Science in Electrical Engineering

Aaron Kofi Aboagye
Ayodele Muriseli Alaran
Jon Marcus Bendickson
Ronald Solomon Blum II
Helene Isabelle Bouvier
Timothy Myers Brosnan
Adam Coile Bush
Sylvain Cappuccio
Yann Cardon
Sudip Chakrabarti

Jae Joon Chang
Holly Lea Chesser
Jeffrey Alan Davis
Daniel Joseph DeFranco
Darryl Joseph DeGruy
Anne-Lise Claude Didierjean
Michael Louis Emry
Ghassan Boulos Farah
Yannick Simon Feder
Michael David Fox
Stephen John Givan
Andrew John Gonczi
Ajay Chandra Venkata Gummalla
Yanid Guzmán-Benitez
Matthieu Marie Hug
Han-Song Kim
Michael J. Mayercik
Rosa M. Padron
Jinsung Park
Taral Patel
Daniel James Paul
Shawn L. Pinkett
Lilibeth Rivera
Jordan Charles Rosenthal
Mark Gilbert Scheen
Shahin Shadfar
Vijay Kumar Srinivasaraghavan
Charles Edward Thorpe Jr.
Shashikiran Uli
Corinne Sophie Vialle
Adam Seth Wertheimer
Xin Zhong

Master of Science in Mechanical Engineering

Amanda Wynne Adams
John Alexiou
William Boyd Anderson
Carl Eric Arnsdorff
Matthew David Bauer
Richard William Beck
Scott Alexander Billington
Robert William Braga
Jason Britton Brown

Ruijun Chen
Yougandh Shashikumar Chitre
David Henry Cowden IV
George Alexander Etheridge
Brian Davidson Harper
Daniel Martin Helmick
Larry Keith Hooks Jr.
Jonathan Edward Kennedy
Dana Elizabeth Lilly
David Michael Longanbach
Karel Minnaar
Jennifer Amanda Morrisette
Matthew Justin Murray
Michelle Christine Rarey
Laura Michelle Atkinson Schaefer
Eric Gerard Schmenk
Walter Earl Sutherlin Jr.
Kimberly Ann Triplett
Thomas Marshall Tucker
Susan A. Welsh
Patrick Wayne Wilkerson
Daisuke Yano

Doctoral Degree Candidates

Doctor of Philosophy Architecture

Hazem F. El-Sabbagh

Thesis: "A Piagetian-Based Reading of Development and Creativity in Architecture: A Study with Particular Reference to Le Corbusier"

Advisor: Dr. J. Wineman

Doctor of Philosophy Biology

James D. McIninch

Thesis: "Identification of Protein Coding Regions in DNA with the Aid of a Statistical Model of Genetic Information"

Advisor: Dr. M. Borodovsky

Doctor of Philosophy Earth and Atmospheric Sciences

Jerry D. Allison

Thesis: "An Implementation of the Competitive Gaussian Model for Metal-Humic Binding in a General Speciation Model"

Advisor: Dr. E. Perdue

Gil Grodzinsky

Thesis: "Atmospheric Organic Nitrate Photochemistry of the Southeastern United States"

Advisor: Dr. M. Rodgers

Danielle E. Haas-Laursen

Thesis: "Estimating the Regional Surface Fluxes of Carbon Dioxide Using the Kalman Filter"

Advisor: Dr. D. Hartley

Heather M. Hauser

Thesis: "An Investigation of Shear Instabilities in the Mesocyclone"

Advisor: Dr. G. Chimonas

James C. St. John

Thesis: "An Investigation of Meteorological, Regional, Urban, and Point Source Influences on Ozone Events in the Southeastern United States"

Advisor: Dr. W. Chameides

Doctor of Philosophy Computer Science

Dean F. Jerding

Thesis: "Visualizing Patterns of Interaction in Program Executions"

Advisor: Dr. J. Stasko

Juan C. Santamaria

Thesis: "Learning Adaptive Reactive Agents"

Advisor: Dr. A. Ram

R.E. Kurt Stirewalt

Thesis: "Automatic Generation of Interactive Systems from Declarative Models"

Co-Advisors: Dr. S. Rugaber and Dr. G. Abowd

Doctor of Philosophy Nuclear Engineering

Davoud A. Eghbali

Thesis: "Direct Contact Condensation in the Presence of Noncondensables in Two-Phase Channel Flow"

Advisor: Dr. S. Ghiaasiaan

Rajendra Narain

Thesis: "Very Intense Continuous High Flux Pulsed Reactor"

Advisor: Dr. R. Karam

Eleodor M. Nichita

Thesis: "A Heterogeneous Finite Element Method and a Leakage Corrected Homogenization Technique"

Advisor: Dr. F. Rahnema

Holger J. Pfeifer

Thesis: "Economic Optimization of Pressurized Water Reactor Cores"

Advisor: Dr. D. Lancaster

Signe E. Varner

Thesis: "Regulation of VCAM-1 Gene Expression and Transcription by Fluid Flow in Endothelial Cells"

Advisor: Dr. R. Nerem

Doctor of Philosophy Mathematics

Teodoro Lara

Thesis: "Controllability and Applications of Cellular Neural Networks"

Advisor: Dr. S.-N. Chow

Doctor of Philosophy Industrial Engineering

Claudia C. Barcenas-Cardenas

Thesis: "Geometric Tolerance Verification Using Superquadrics"

Advisor: Dr. P. Griffin

Ann M. Bisantz

Thesis: "Modeling Environmental Uncertainty to Understand and Support Dynamic Decision Making"

Advisor: Dr. A. Kirlik

Mei Zhang

Thesis: "Cross-Docking Network Design"

Advisor: Dr. H. Ratliff

Doctor of Philosophy Physics

Mee H. Choi

Thesis: "Residence Time Distribution in a Bistable System as a Measure for Stochastic Resonance"

Advisor: Dr. R. Fox

Charles S. West

Thesis: "Backscattering Enhancement from Plasmon Polaritons on Rough Metal Surfaces"

Advisor: Dr. K. O'Donnell

Doctor of Philosophy Psychology

James F. Knutson

Thesis: "The Effect of User Interface Design on the Adoption of New Technology"

Advisor: Dr. N. Walker

Adrain L. Thomas

Thesis: "Accounting for Correlated Artifacts and True Validity in Validity Generalization Procedures: An Extension of Model I for Assessing Validity Generalization"

Advisor: Dr. N. Raju

Christopher J. Whaley

Thesis: "Cross-Modality Learning and Redundancy with Auditory and Visual Displays"

Advisor: Dr. G. Corso

Doctor of Philosophy Management

Charla K. A. Mathwick

Thesis: "A Model of Customer Value in Retailing: Contextual Antecedents and Exchange Consequences"

Advisor: Dr. N. Malhotra

Doctor of Philosophy Aerospace Engineering

Leigh-Ann Darden

Thesis: "Rolling Moment Response of a Wing-Body to Stagnation Point Accuation"
Advisor: Dr. N. Komerath

Catherine H. Ferrie

Thesis: "Effect of Transverse Shear on the Postbuckling and Growth Characteristics of Delaminated Composites"
Advisor: Dr. G. Kardomateas

Taih-Shyun Lee

Thesis: "Performance Analysis and Control for Takagi-Sugeno Fuzzy Systems: Matched and Mismatched Case"
Advisor: Dr. C-H. Chuang

Hitoshi Morimoto

Thesis: "Trajectory Optimization for a Hypersonic Vehicle with Constraints"
Advisor: Dr. C-H. Chuang

Douglas V. Nance

Thesis: "Finite Volume Schemes Optimized for Low Numerical Dispersion and Their Aeroacoustic Applications"
Advisor: Dr. L. Sankar

Christopher C. Nelson

Thesis: "Simulations of Spatially Evolving Compressible Turbulence Using a Local Dynamic Subgrid Model"
Advisor: Dr. S. Menon

Doctor of Philosophy Chemistry

Pamela L. Newson

Thesis: "Studies of Diamond Film Formation"
Advisor: Dr. T. Moran

Susan M. Thomas

Thesis: "The Synthesis and Characterization of Novel, Inorganically Pillared Layered Aluminosilicates"
Advisor: Dr. J. Bertrand

J. Cameron Tyson

Thesis: "I. Monolayer and Host-Guest Chemistry of Azocalix[n]arenes. II. Perfluoroalkyl-Substituted Polythiophenes"
Advisor: Dr. D. Collard

Doctor of Philosophy Chemical Engineering

Karen Chandler

Thesis: "Environmental Benign Chemical Reactions in Environmentally Benign Supercritical and Subcritical Solvents"
Advisor: Dr. F. Schork

David R. Peterson

Thesis: "The Study of an Intermediate Temperature Solid State Fuel Cell Utilizing Hydrogen Sulfide as the Fuel"
Advisor: Dr. J. Winnick

Leonard L. Scott

Thesis: "Electrolytic Manufacture of Thiosulfate-Free Solutions of Sodium Hydrosulfite from Aqueous Sodium Bisulfite"
Advisor: Dr. J. Winnick

Cary Wauters

Thesis: "Electrolytic Membrane Recovery of Bromine from Waste Gas-Phase Hydrogen Bromide Streams Using an Molten Salt Electrolyte"
Advisor: Dr. J. Winnick

Theodore M. Winger

Thesis: "Synthesis and Characterization of Supported Bioactive Phospholipid Membranes – Model Substrates for Biosurface Engineering"

Co-Advisors: Dr. E. Chaikof and Dr. P. Ludovice

Doctor of Philosophy Environmental Engineering

Jiaping Chen

Thesis: "Sorption of Metal Ions from Aqueous Solutions: Equilibrium, Kinetics, and Transport"

Advisor: Dr. S. Yiacoumi

Kim D. Jones

Thesis: "Interactions between Polycyclic Aromatic Hydrocarbons and Particles Coated with Humic Substances in the Aqueous Phase and Bound to Clay Surfaces"

Advisor: Dr. C. Tiller

Doctor of Philosophy Civil Engineering

William H. Bachman

Thesis: "Towards a GIS-Based Modal Model of Automobile Exhaust Emissions"

Advisor: Dr. R. Guensler

Janine M. Dawkins

Thesis: "Analysis of Stop-Controlled Intersections in the Caribbean: A Case Study of Kingston, Jamaica"

Advisor: Dr. J. Daniel

Khalid M. Siddiqi

Thesis: "Framework for Analyzing Construction Alternatives with Respect to Environmental Laws"

Co-Advisors: Dr. R. Kangari and Dr. R. Gregory

Juan C. Viera

Thesis: "Strategy for Traffic-Signal-System Selection in Venezuela"

Advisor: Dr. P. Parsonson

Doctor of Philosophy Electrical Engineering

Paul D. Anderson

Thesis: "Array Design and Beamforming for Satellite Earth Terminals"

Advisor: Dr. Mary Ann Ingram

Thomas W. Egolf

Thesis: "Virtual Prototyping of Embedded Digital Systems: Hardware/Software Codesign, Integration, and Test"

Advisor: Dr. V. Madisetti

Michael A. Hopper

Thesis: "A Compiler Framework for Multithreaded Parallel Systems"

Advisor: Dr. D. Wills

Shahram Famorzadeh

Thesis: "BEEHIVE: An Adaptive, Distributed, Embedded Signal Processing Environment"

Advisor: Dr. V. Madisetti

Sasidhar Koppolu

Thesis: "Parallel Test Techniques for Multi Clip Modules"

Advisor: Dr. A. Chatterjee

Joseph W. Monaco

Thesis: "Generalized Motion Models for Video Applications"

Advisor: Dr. M. Smith

Byeong-Ha Park

Thesis: "A Low-Voltage, Low-Power 900 Mhz CMOS Frequency Synthesizer"

Advisor: Dr. P. Allen

Jae-Yeong Park

Thesis: "Packaging-Compatible
Micromachined Magnetic Devices: Inte-
grated Passive Components and Modules"
Advisor: Dr. M. Allen

Joseph W. Parks Jr.

Thesis: "Macroscopic Numerical Analysis of
Semiconductor Devices with Application to
Avalanche Photodiodes"
Advisor: Dr. K. Brennan

Craig S. Petrie

Thesis: "An Integrated Random Bit
Generator for Applications in
Cryptography"
Advisor: Dr. J. Connelly

Lucio F. Pessoa

Thesis: "Nonlinear Systems and Neural
Networks with Hybrid Morphological/Rank/
Linear Nodes: Optimal Design and Appli-
cations to Image Processing and Pattern
Recognition"
Advisor: Dr. P. Maragos

Andrew H. Register

Thesis: "The Application of Artificial
Neural Networks for End-Point Trajectory
Control of Flexible-Link Manipulators"
Advisor: Dr. C. Alford

Gail Skofronick Jackson

Thesis: "Iterative Nonlinear Statistical
Retrievals of Precipitation from Simulated
Spaceborne Multispectral Passive Micro-
wave Observations"
Advisor: Dr. A. Gasiewski

Jonathan K. Su

Thesis: "Adaptive Rate-Constrained
Transform Video Coding"
Advisor: Dr. R. Mersereau

John A. Tabler

Thesis: "An Integrated Adaptive Bias
Solution for Zero Passive Component
Count High-Performance Mixed-Signal
ICs"
Advisor: Dr. M. Brooke

Hakan Urey

Thesis: "Image Acquisition and Processing
with A.C.-Coupled Cameras"
Advisor: Dr. W. Rhodes

Ilgu Yun

Thesis: "Reliability Modeling and Parametric
Yield Prediction of GaAs Multiple Quan-
tum Well Avalanche Photodiodes"
Advisor: Dr. G. May

Wei Zhao

Thesis: "Efficient Neural Networks for
Prediction of Turbulent Flow"
Advisor: Dr. M. Brooke

Doctor of Philosophy Mechanical Engineering

Margueritte P. Brackin

Thesis: "Translating the Voice of the
Customer into Preliminary Design Specifi-
cations"
Advisor: Dr. J. Colton

Tal Cohen

Thesis: "A Data Approach to Tracking and
Evaluating Engineering Changes"
Advisor: Dr. R. Fulton

Jean E. Davis

Thesis: "Micromechanical Modeling of
Fiber Fragmentation in a Single Fiber Metal
Matrix Composite Specimen"
Advisor: Dr. J. Qu

Russell S. Heinrich

Thesis: "Assessment of the Fluid Mechanics of Aortic Valve Stenosis with In Vitro Modeling and Control Volume Analysis"

Advisor: Dr. A. Yoganathan

Joseph A. Levert

Thesis: "Interface Mechanisms of Chemical-Mechanical Polishing for Integrated Circuit Planarization"

Advisor: Dr. S. Danyluk

James W. Piper

Thesis: "Force Dependence of Cell Bound E-Selectin/Carbohydrate Ligand Binding Characteristics"

Advisor: Dr. C. Zhu

Allen H. Siu

Thesis: "Three-Dimensional Least-Squares Finite Element Technique on Inelastic Deformation With Application to Frictional Contact Problems"

Co-Advisors: Dr. Y-K. Lee and

Dr. D. McDowell

**The 1997 Joseph Mayo Pettit
Alumni Distinguished Service Award
Presented to
George H. Hightower Sr.
Textile Engineering 1937**

George Harrison Hightower Sr. has a record of accomplishment and service to his community, to his company and to Georgia Tech that spans 60 years and builds on a long-standing family tradition.

Mr. Hightower is retired as chairman of the board of Thomaston Mills, Inc., one of the last family controlled and operated textile concerns in the state of Georgia. He is a member emeritus of the Georgia Tech Foundation and a former member of the Georgia Tech Alumni Association Board of Trustees. He has been a contributor to the Georgia Tech Annual Roll Call for 50 consecutive years.

A native of Thomaston, Georgia, he entered Georgia Tech in 1933 during the grip of the Great Depression. He followed in the footsteps of his father, William Hightower, who played football as a halfback under coach John Heisman. His father earned a degree in textile engineering in 1909.

As a student, Mr. Hightower was president of the Student Council, and a member of ANAK, Omicron Delta Kappa, Sigma Chi fraternity, Phi Psi fraternity, inter-fraternity council, and Bulldog Club. He also was in the Naval ROTC.

After graduation, Mr. Hightower went to work in the engineering department at Thomaston Mills. In May 1941, he joined the U.S. Navy as an ensign and reached the rank of commander before being honorably discharged at the end of World War II. On



completion of his military service, Mr. Hightower returned to Thomaston Mills, where he rose through the ranks during a 49-year career to become president, chief executive officer and chairman. He married his late wife Dorothy Watson

in 1947. They have two children, George Jr., who graduated from Georgia Tech in 1971 with a degree in textiles, and Jane Hightower Tippet.

In the fall of 1997—60 years after Mr. Hightower graduated—his grandson, John Hightower Tippet, began his freshman year at Georgia Tech, continuing the family legacy.

In recognition of his many years of service to Georgia Tech and his community, George Harrison Hightower Sr. is named a recipient of the Joseph Mayo Pettit Alumni Distinguished Service Award.

**Previous Recipients of the Joseph Mayo Pettit
Alumni Distinguished Service Award:**

The Alumni Distinguished Service Award, the highest honor conferred by the Institute has been named for the late Dr. Joseph M. Pettit in honor of his accomplishments as president of Georgia Tech from 1972 to 1986.

1934-L.W. "Chip" Robert Jr., 1908
1935-Ferd W. Kaufman, 1894
1936-William H. Glenn Sr., 1891
1937-Robert Tyre Glenn Jr., 1922
1938-Robert Greeg, 1905
1939-Y. Frank Freeman, 1910
1940-William A. Alexander, 1912
1941-Frank H. Neely, 1904
1942-James F. Towers, 1901
1944-William H. Hightower, 1909
1945-Frank M. Spratlin, 1906
1947-Cherry L. Emerson, 1908
1948-Robert B. Wilby, 1908
1949-Fuller E. Callaway Jr., 1926
1950-George W. McCarty, 1908
1951-Robert L. McDougall, 1925
1952-Howard T. Tellepsen, 1934
1953-Wayne J. Holman Jr., 1928
1954-David W. Harris, 1912
1955-George C. Griffin, 1922
1956-Monie A. Ferst, 1911
1957-Hazard E. Reeves, 1928
1958-Ivan Allen Jr., 1933
1959-Walter M. Mitchell, 1923
1960-Robert H. White, 1914
1961-George T. Marchmont, 1907
1962-John P. Baum, 1924
1963-George W. Woodruff, 1917
1964-John J. McDonough, 1923
1965-Julian T. Hightower, 1919
1966-Albert A. Staton, 1922
1966-John C. Staton, 1924
1967-William C. Wardlaw Jr., 1928

1968-Henry W. Grady, 1918
1969-Willaim A. Parker, 1919
1970-Oscar G. Davis, 1922
1971-Jack F. Glenn, 1932
1972-John W. Young, 1952
1973-I.M. Sheffield Jr., 1920
1974-Edward B. Newill, 1915
1975-Ira H. Hardin, 1924
1976-Moris M. Bryan Jr., 1941
1977-Frederick Holloway, 1935
1978-Charles Tillman Oxford, 1930
1979-President Jimmy Carter, 1946
1979-Frederick G. Storey, 1933
1980-Daniel Axford McKeever, 1932
1981-Lawrence L. Gellerstedt Jr., 1945
1982-Paul A. Duke, 1945
1983-Alvin M. Ferst, 1943
1984-Charles R. Yates, 1935
1985-A.J. "Jack" Mundy, 1934
1985-Vernon D. Crawford, Honorary 1966
1985-George W. Felker III, 1936
1985-Julian Hoke Harris, 1928
1986-Robert Lee Dodd, Honorary 1957
1986-J. Erskine Love, 1949
1986-I.L. "Sonny" Kunian, 1934
1986-Joseph M. Pettit, (posthumous), Honorary 1975
1986-Florence W. Pettit, Honorary 1984
1987-Richard A. Guthman Sr., 1928
1987-L. Travis Brannon Jr., 1949
1987-Hal L. Smith, 1926
1987-Robert H. Ferst, 1938
1988-Robert Hollis Tharpe, 1934
1988-James P. Poole, 1942
1989-James E. Aderhold, 1945, 1967
1990-E. Rembert DuBose, 1948
1991-John Joseph "Joe" Westbrook, 1929
1992-Lamar Howard Franklin Sr., 1936
1993-Frank A. Player, 1929
1994-Sidney Goldin, 1930
1995-Randolph Whitfield, 1932, 1934
1996-C.B. Drennon Jr., 1931

G. Wayne Clough, Ph.D.

President

Georgia Institute of Technology

A Georgia native and Georgia Tech alumnus, Dr. Wayne Clough became the tenth president of the Georgia Institute of Technology in September 1994. He is the first alumnus to serve as president.

Dr. Clough was born in Douglas, Georgia. He attended Georgia Tech as an undergraduate and graduate student, receiving his B.S. and M.S. in civil engineering in 1964 and 1965, respectively. He received his Ph.D. in 1969 from the University of California, Berkeley.

Dr. Clough has held faculty positions and administrative posts at Duke University, Virginia Tech, and the University of Washington. Prior to joining Georgia Tech, he served as provost and vice president for Academic Affairs at the University of Washington.

A prominent engineer, teacher, and researcher, he is the recipient of numerous awards and honors for teaching and research, including the American Society of Civil Engineers' oldest and most prestigious recognition, the Norman Medal, in 1982 and 1996, and the George Westinghouse Award from the American Society of Engineering Education in 1986. He has seven additional national awards from the American Society of Civil Engineers, including the 1994 Karl Terzaghi Lectureship and the 1991 State-of-the-Art Award. In 1990, he was elected to the National Academy of Engineering, joining 13 other Georgia Tech faculty who have earned this career recognition. Dr. Clough has been a registered engineer since 1970.



Dr. Clough has consulted with more than 70 firms and government agencies, published more than 120 papers, reports, and six book chapters, and is the author of several widely used computer codes for geotechnical engineering. As president of Georgia Tech, he

does not conduct as much engineering research as he did in the past, but continues to think of himself as "a hell of an engineer."

A strong believer in participating in his community, Dr. Clough is active in volunteer work throughout Atlanta. He serves on the executive committee of Central Atlanta Progress; the National Commission for Cooperative Education; and the board of trustees of the Georgia Research Alliance, the University Center in Georgia, and the National Council on Competitiveness.

He has been married for 35 years to Anne Robinson Clough. They have two children, Matthew Forrest and Eliza Morgan.

A.W. Dahlberg

Commencement Speaker

A.W. "Bill" Dahlberg is chair, president, and chief executive officer of Southern Company, the parent firm of five electric utilities in the southeastern United States—Alabama Power, Georgia Power, Gulf Power, Mississippi Power, and Savannah Electric. Other company subsidiaries include Southern Energy Inc., Southern Development, Southern Communications Services, Southern Nuclear, and Southern Company Services. Together, these companies make up one of the largest electric utility groups in the United States.

Dahlberg joined Southern Company as a meter installer at Georgia Power in 1960 and worked his way through the organization, ultimately serving as senior vice president of marketing. He moved to Southern Company Services as senior vice president and became president and chief executive officer of Southern Company Services in 1985. Three years later he returned to Georgia Power as president and chief executive officer. In 1994 he became president of Southern Company. He assumed his current position in March, 1995.

Dahlberg serves on the board of directors of the Edison Electric Institute, the trade organization for the nation's investor-owned electric utilities. He is a member of the Institute's policy committee on governmental affairs and the CEO steering committee of The Business Roundtable.

A native of Atlanta, Dahlberg earned his bachelor's degree in business administration from Georgia State University and completed executive management programs at Stanford



University and Emory University. He is a director of SunTrust Bank, Inc., Protective Life Corporation, and Equifax, Inc. He is a member of the Board of Regents of the University System of Georgia, serves on the board of directors of the Georgia State University Alumni Association, and was a member of

the board of directors for the Atlanta Committee for the Olympic Games.

Dahlberg is also a member of the board of directors and a past chair of the Georgia Chamber of Commerce. He now serves on the board of directors and is a past chair of the Atlanta Chamber of Commerce. He serves as chairman of The Carter Center's Board of Councilors.

Dahlberg was named "1994 Man of the Year" and "Georgia's Most Respected CEO for 1996" by *Georgia Trend* magazine.

College of Computing

Georgia Tech invested in the future when, in 1990, it established the College of Computing, which evolved from the School of Information and Computer Science. Through its interdisciplinary charter, the College has forged relationships with nearly every unit at Georgia Tech and several universities around the world. The College has three centers for interdisciplinary research: The EduTech Institute, The Broadband Telecommunications Center, and The Graphics, Visualization & Usability Center (ranked #1 in the country). As of the fall of 1996, undergraduate enrollment totaled approximately 750 and graduate enrollment totaled approximately 225.

Prominent alumni include Marshall Williamson ('69), general manager, E-Systems; Jim Allchin ('83), senior vice president, Microsoft; Jody Dyer ('71), director, AudioFax; Barry James Folsom ('70, '72), CEO, VIVID Business Systems; Edith Martin ('76, '80), chief financial officer, Eastman Kodak; and Githesh Ramamurthy, ('83), president, Strategic Clients Division and chief technical officer, CCC Information Services, Inc.

Ivan Allen College of Management, Policy, and International Affairs

The Ivan Allen College, created in 1989, represents a unique configuration of academic disciplines—management, the humanities, and the social sciences—designed to work within the technology emphasis of the Georgia Tech environment. The seven Schools within the College include Economics; History, Technology, and Society; International Affairs; Literature, Communication, and Culture; Management; Modern Languages; and Public Policy. The College now has more than 150 faculty members; 1,145 undergraduate majors, and 393 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. With Classroom 2000 in the DuPree School of Management; the Center for New Media Studies in Learning, Communication, and Culture; and the Quality Interactive Language Learning (QUILL) program in Modern Languages, the College has been an innovative leader in information technology.

Many Ivan Allen College graduates have become respected professional and national leaders. Outstanding alumni from Management, the oldest degree-granting School in the College, include David C. Garrett ('55), former chairman of the board, Delta Air Lines; James D. Robinson ('57), former chairman, American Express Company; Cecil B. Day ('58), founder of Days Inn of America; Charles W. Brady ('57),

chairman of Invesco Capital Management; John P. Imlay Jr. ('59), chairman of Dun & Bradstreet Software Services Inc., Tom DuPree ('74), chief executive officer and founder, Apple South; and Sam Nunn ('60), former U.S. Senator from Georgia.

College of Architecture

The School of Architecture became the College of Architecture in 1975. In the fall of 1996, 558 undergraduate and 246 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 national 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.

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 specialized interests and who are generally independent and interested in relating their educational experience to social, governmental, industrial, and postgraduate fields. Since 1991, the College of Sciences has awarded nearly 1,000 undergraduate degrees and nearly 800 graduate degrees.

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.

Traditionally a leader in the education of doctoral students, the College has a distinctive heritage of students involved in research and research publications.

College of Engineering

Eighteen eighty-eight marked the opening of the Institute and the establishment of the School of Mechanical Engineering. As of fall 1996, the College of Engineering, now incorporating eight degree-granting schools, had a total enrollment of 8,218.

Outstanding alumni of the College include Robert B. Ormsby ('45), president, Lockheed Corporation-Aeronautical Systems Group; astronauts John Young ('52), and Richard Truly ('59); Dillard Munford ('39), chairman and CEO of Atlanta-based Munford Inc., which controls more than 800 Majik Market stores; 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).

Georgia Tech consistently ranks among the top five schools in the country in graduating bachelor level engineering graduates. Undergraduate and graduate students' education, in addition to faculty learning and research, are enhanced in the College through exposure to the most up-to-date laboratory equipment.

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 which 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. New leaders stand out under the direction of David Braine, athletic director; Bobby Cremins, basketball; Danny Hall, baseball; Agnus Berenato, women's basketball; Bruce Heppler, golf; Grover Hinsdale, track; Shelton Collier, volleyball; and George O'Leary, football.

Not everyone can compete in intercollegiate athletics, which is why intramural sports are available to all students. More than 20 activities, ranging from crew to weight training, are offered. The multipurpose Fuller E. Callaway III

Student Athletic Complex houses most of the intramural activities.

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 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 less than 2,000 volumes. Now the Library contains more than 3 million volumes; a complete collection of U.S. patents; and over 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 online information retrieval capabilities. The Georgia Tech Electronic Library offers a variety of databases to students and faculty for research, class assignments, and personal information. These facilities are complemented by a video tape viewing room where students may view material to supplement their classroom assignments or view entire courses for personal enrichment.

The Georgia Tech Library Archives contain items describing the history of Tech and the contributions of its history makers. 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 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.

Academic Regalia

The academic regalia worn by today's commencement 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 worn by the graduates 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.

Commencement Committee

Communications Division of External Affairs
John Culver, Formation Director
Mary Kay Daly, External Affairs
Frank Roper, Registrar
Annette Satterfield, Jo McIver, Anna Lindbergh,
Barbara Howard, Angie May, and Staff,
Registrar's Office
Dr. Louis Zahn, Announcer
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, and
Christine Marks, Department of Music
Van Kerner, Marilyn Somers, Beth Price,
Alumni Programs
Leonard Nagel, Coordinator, Commencement
Reception/Luncheon
Sheryl Ballenger and Alyson Neville-Knight,
Student Services (ADAPTS)

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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Communications Division

