Welcome to the 219th 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 1,000 undergraduate and graduate students, today's ceremony recognizes their academic achievements at Georgia Tech and inaugurates a new era in their careers.
PROCESSIONAL  
Georgia Tech Commencement Ensemble, coordinated by Dr. Frank Clark, Department of Music

MASTER OF CEREMONIES  
Dr. Jean-Lou Chameau, Provost and Vice President, Academic Affairs

REFLECTION  
Pastor Mary Armstrong-Reiner, Campus Ministries

NATIONAL ANTHEM  
Georgia Tech Commencement Ensemble

COMMENCEMENT ADDRESS  
C. P. Wong, Regents' Professor Materials Science and Engineering

PRESENTATION OF DOCTORAL DEGREE CANDIDATES  
Dr. Charles Liotta, Vice Provost for Research and Dean of Graduate Studies

CONFERRING OF DEGREES  
Dr. Chameau

PRESENTATION OF MASTER'S DEGREE CANDIDATES  
Dr. Liotta

CONFERRING OF DEGREES  
Dr. Chameau

INTRODUCTION OF ACADEMIC DEANS  
Dr. Chameau

PRESENTATION OF UNDERGRADUATE DEGREE CANDIDATES  
College of Computing  
Assistant Dean Maureen Biggers  
Ivan Allen College of Liberal Arts  
Dean Sue V. Rosser  
College of Architecture  
Dean Thomas D. Galloway  
College of Management  
Associate Dean Gene Comiskey  
College of Sciences  
Associate Dean Anderson Smith  
College of Engineering  
Dean Don P. Giddens
CONFERRING OF DEGREES
Dr. Chameau

INDUCTION INTO THE ALUMNI ASSOCIATION
Mr. Carey Brown, Class of 1969
President, Georgia Tech Alumni Association

ALMA MATER
Georgia Tech Commencement Ensemble

FACULTY RECESSIONAL
Georgia Tech Commencement 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 sixty 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.
Doctoral Degree Candidates

Doctor of Philosophy
Bioengineering

Paul Anthony Garcia
Thesis: “Modeling the Intersegmental Coordination of Heart Motor Neurons in the Medicinal Leech”
Advisor: Dr. Robert John Butera

Gustavo Rotelli Prado
Advisor: Dr. Michelle C. LaPlaca

Hak-Joon Sung
Thesis: “Matrix Metalloproteinase 9 (MMP-9) and Biodegradable Polymers in the Engineering of a Vascular Construct”
Advisor: Dr. Raymond P. Vito

Doctor of Philosophy
Algorithms, Combinatorics, and Optimization

Amin Saberi
Thesis: “Algorithmic Aspects of the Internet”
Advisor: Dr. Vijay V. Vazirani

Zixia Song
Thesis: “The Extremal Function for $K_9$ Minors”
Advisor: Dr. Robin Thomas

Nisheeth K. Vishnoi
Thesis: “Theoretical Aspects of Randomization in Computation”
Advisor: Dr. Richard Lipton

Doctor of Philosophy
Computer Science

Darrin Charles Bentivegna
Thesis: “Learning from Observation Using Primitives”
Advisor: Dr. Christopher Atkeson

Ada Gavrilovska
Thesis: “SPLITS Stream Handlers: Deploying Application-level Services to Attached Network Processors”
Advisor: Dr. Karsten Schwahn

Zachary Alan Kurmas
Thesis: “Generating and Analyzing Synthetic Workloads Using Iterative Distillation”
Advisor: Dr. Umakishore Ramachandran

Brian Matthew McNamara
Advisor: Dr. Ioannis Smaragdakis

Eugene Zhang
Thesis: “Surface Topological Analysis for Image Synthesis”
Advisor: Dr. Greg Turk

Doctor of Philosophy
Public Policy

Asim Zia
Thesis: “Cooperative and Non-cooperative Decision Behaviors in Response to the Inspection and Maintenance Program in the Atlanta Airshed, 1997-2001”
Advisor: Dr. Bryan G. Norton

Doctor of Philosophy
Public Policy/Joint Program

Craig S. Gordon
Advisor: Dr. Ann Bostrom

Doctor of Philosophy
History and Sociology of Technology and Science

Hannes Simo Iisakki Toivanen
Advisor: Dr. Steven W. Usselman
Doctor of Philosophy
Management

Steven D. Caldwell
Thesis: “Viewing Person-Environment Fit through the Lenses of Organizational Change: A Cross-level Study”
Advisor: Dr. David M. Herold

Che Ping Su
Advisor: Dr. Yih-Long Chang

Doctor of Philosophy
Earth and Atmospheric Sciences

Muhammed Zohir Chowdhury
Advisor: Dr. Armistead G. Russell

Doctor of Philosophy
Applied Biology

Cindy Chepkeno Korir
Advisor: Dr. Paul Edmonds

Heath Jordan Mills
Thesis: “Microbial Diversity in Sediments and Hydrates Associated with Cold Seeps in the Gulf of Mexico”
Advisor: Dr. Patricia A. Sobecky

Doctor of Philosophy
Psychology

Julian Craig Wallace
Thesis: “A Multilevel Examination of Occupational Safety: Regulatory Focus as an Explanatory Link between Climate, Conscientiousness Facets, and Performance”
Advisor: Dr. Gilad Chen

Doctor of Philosophy
Physics

Xun Gu
Thesis: “Measuring Ultracomplex Supercontinuum Pulses and Spatio-temporal Distortions”
Advisor: Dr. Rick P. Trebino

Andreas Handel
Thesis: “Limits of Localized Control in Extended Nonlinear Systems”
Advisor: Dr. Roman O. Grigoriev

Mohsen Shiri-Garakani
Advisor: Dr. Ronald F. Fox

Yan Yi
Thesis: “Ballistic Conduction in Multi-walled Carbon Nanotubes”
Advisor: Dr. Walter A. DeHeer

Doctor of Philosophy
Chemistry

Lynn Anne Capadona
Thesis: “Photoactivated Fluorescence of Small Silver Nanoclusters and Their Application to Raman Spectroscopy”
Advisor: Dr. Robert M. Dickson

Elizabeth Deibler Gadsby
Thesis: “Drug/DNA Interactions and Condensation Investigated with Atomic Force Microscopy”
Advisor: Dr. Lawrence A. Bottomley

Bryan Edward Herger
Thesis: “Kinetic Analysis of Mutants of HTLV-I Protease”
Advisor: Dr. Suzanne B. Shuker

Manfred Karlowitz
Advisor: Dr. Boris Mizaikoff

Ling Li
Advisor: Dr. David M. Collard
Susanna Moore
Thesis: “Synthesis and Pharmacology of Potential Site-specific Therapeutic Agents for Cocaine Abuse”
Advisor: Dr. Howard M. Deutsch

Mutasem Omar Sinnokrot
Thesis: “Theoretical Investigations of pi-pi Interactions and Their Role in Molecular Recognition”
Advisor: Dr. Charles D. Sherrill

Bruce Thomas Thompson
Advisor: Dr. Boris Mizaikoff

Swati Singla
Advisor: Dr. Haskell W. Beckham

Jianming Zeng
Thesis: “Constrained Crystallization and Depletion in a Polymer Medium in a Transdermal Drug Delivery System”
Advisor: Dr. Karl I. Jacob

Pairote Balun
Thesis: “The Stochastic Vendor-managed Inventory Problem and its Variations”
Advisor: Dr. Chelsea C. White

Kirk Courtney Benson
Thesis: “Adaptive Control of Large-scale Simulations”
Advisor: Dr. Amy R. Pritchett

Jihong Chen
Thesis: “Sparse Modeling in Classification, Compression, and Detection”
Advisor: Dr. Xiaoming Huo

Jin Young Choi
Thesis: “Performance Modeling, Analysis, and Control of Capacitated Re-entrant Lines”
Advisor: Dr. Spiridon A. Reveliotis

Uk Jung
Thesis: “Wavelet-based Data Reduction and Mining for Multiple Functional Data”
Advisor: Dr. Jye-Chyi Lu

Eda Kemahlioglu-Ziya
Advisor: Dr. John J. Bartholdi

Steven James Landry
Thesis: “Supporting Pilot Procedure Following in Nominal and Off-nominal Situations through the Use of Displays of Procedure Context”
Advisor: Dr. Julie Jacko

Sugje Sohn
Advisor: Dr. Chen Zhou

Jin-Hwa Song
Thesis: “Inventory Routing Investigations”
Advisor: Dr. Mathieu W. Savelsbergh

Seungmook Chae
Advisor: Dr. Suresh Menon

David J. Desrocher
Advisor: Dr. Mary E. Rezac

Roy Jeffrey Furbank
Thesis: “Droplet Formulation from Particulate Suspensions”
Advisor: Dr. Jeffrey F. Morris
Augustin Jeyakumar  
Advisor: Dr. Clifford L. Henderson

Izumi Kurosawa  
Advisor: Dr. Ronald W. Rousseau

Shutaro Kurosawa  
Thesis: “Supercritical Processing of Electrically Conducting Polymers”  
Advisor: Dr. Amyn S. Teja

Michael John Lazzaroni  
Thesis: “Optimizing Solvent Selection for Separation and Reaction”  
Advisor: Dr. Charles A. Eckert

Jong Min Lee  
Advisor: Dr. Jay H. Lee

Ibrahim Ali Ozkan  
Thesis: “Thermodynamic Model for Associating Polymer Solutions”  
Advisor: Dr. Amyn S. Teja

Jing Wei  
Advisor: Dr. Matthew J. Reallf

Doctor of Philosophy  
Environmental Engineering

Lingjun Kong  
Thesis: “Characterization of Mineral Oil, Coal Tar, and Soil Properties and Investigation of Mechanisms that Affect Coal Tar Entrapment and Removal from Porous Media”  
Advisor: Dr. Kurt D. Pennell

Huichun Zhang  
Thesis: “Metal Oxide-facilitated Oxidation of Antibacterial Agents”  
Advisor: Dr. Ching-Hua Huang

Doctor of Philosophy  
Civil Engineering

Barbara Maria Brouckaert  
Advisor: Dr. Appiah Amirtharajah

Angshuman Guin  
Thesis: “An Incident-detection Algorithm Based on a Discrete-state Propagation Model of Traffic Flow”  
Advisor: Dr. Karen K. Dixon

Sebnem Seker-Elci  
Advisor: Dr. Paul Work

Doctor of Philosophy  
Electrical and Computer Engineering

Amer Hani Atrash  
Thesis: “Data Bus Deskewing Systems in Digital CMOS Technology”  
Advisor: Dr. David R. Hertling

Joshua Isaac Bergman  
Advisor: Dr. Joy Laskar

Santithorn Bunchua  
Thesis: “Fully Distributed Register Files for Heterogeneous Clustered Microarchitectures”  
Advisor: Dr. Donald S. Wills

Fatma Caliskan  
Advisor: Dr. Andrew F. Peterson

Jose Gerardo Gonzalez-Rosiles  
Thesis: “Image and Texture Analysis with Angular Biorthogonal Filter Banks”  
Advisor: Dr. Glenn S. Smith
Luis Benigno Gutierrez-Zea
Advisor: Dr. George Vachtsevanos

Sven Krasser
Advisor: Dr. Henry W. L. Owen

Nancy Brown List
Thesis: “Low-complexity Interleaver Design for Turbo Codes”
Advisor: Dr. Douglas B. Williams

Aravind Ratnakar Nayak
Advisor: Dr. John R. Barry

Seung-Jong Park
Advisor: Dr. Raghupathy Sivakumar

Youngcheol Park
Advisor: Dr. James S. Kenney

Kyeong Keol Ryu
Thesis: “Automated Bus Generation for Multiprocessor SoC Design”
Advisor: Dr. Vincent J. Mooney

Susanta Sengupta
Thesis: “Technology-independent CMOS OP AMP in Minimum Channel Length”
Advisor: Dr. Phillip E. Allen

JoonHyun Sung
Thesis: “Transmitter Strategies for Closed-loop MIMO Communication”
Advisor: Dr. John R. Barry

Badrinarayanan Varadarajan
Thesis: “The Design of Linear Space-time Codes for Quasi-static Fading Channels”
Advisor: Dr. John R. Barry

Jaikrishna Venkatesan
Advisor: Dr. Waymond R. Scott

Ricardo A. Villalaz
Advisor: Dr. Thomas K. Gaylord

Zhijie Xiong
Advisor: Dr. Phillip E. Allen

Yeo-Sun Yoon
Advisor: Dr. James H. McClellan

Shantanu Kangade
Advisor: Dr. John A. Copeland

Woopoung Kim
Advisor: Dr. Madhavan Swaminathan

Sven Krasser
Advisor: Dr. Henry W. L. Owen

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Advisor: Dr. Thomas K. Gaylord

Zhijie Xiong
Advisor: Dr. Phillip E. Allen

Yeo-Sun Yoon
Advisor: Dr. James H. McClellan
Doctor of Philosophy
Nuclear and Radiological Engineering

Scott William Mosher
Advisor: Dr. Farzad Rahnema

Peter Arthur Kottke
Thesis: "Rheological Implications of Tension in Liquids"
Advisor: Dr. Ward O. Winer

HongSeok Moses Noh
Thesis: "Parylene Micro-column for Miniature Gas Chromatograph"
Advisor: Dr. Peter J. Hesketh

Doctor of Philosophy
Mechanical Engineering

Adam S. Coutee
Thesis: "Virtual Assembly and Disassembly Analysis: An Exploration into Virtual Object Interactions and Haptic Feedback"
Advisor: Dr. Berdinus A. Bras

Qunzhi Zhu
Advisor: Dr. Zhuomin Zhang

Wayne Dwight Roomes Daley
Advisor: Dr. Kok-Meng Lee

Timothy Patrick Ferguson
Thesis: "Moisture and Interfacial Adhesion in Microelectronic Assemblies"
Advisor: Dr. Jianmin Qu

Byungki Kim
Thesis: "Miniaturized Diffraction-based Interferometric Distance Measurement Sensor"
Advisor: Dr. Thomas R. Kurfess
Master's Degree Recipients

Master of Science

Babak Vakili Amini
Electrical and Computer Engineering

Bjoern Hendrik Avak
Electrical and Computer Engineering

John Van Cao
Electrical and Computer Engineering

Chorng-Yow Chen
Aerospace Engineering

Hsing-Chung Chu
Civil Engineering

Pallavi Damani
Economics

Philippe Joel Michel Delannoy
Aerospace Engineering

Julien Dupuis
Aerospace Engineering

Angela Fu
Environmental Engineering

Hector A. Gonzalez
Aerospace Engineering

Shalabh Goyal
Electrical and Computer Engineering

Ling Guo
Economics

Kwangtae Ha
Aerospace Engineering

Jonathan Ronald Jackson
Aerospace Engineering

Deepak Chandrahas Jahagirdar
Electrical and Computer Engineering

Se-Kwon Jung
Civil Engineering

Yoonju Jung
Civil Engineering

Vittesh Vasant Kalmabri
Aerospace Engineering

Arunugam Kannan
Electrical and Computer Engineering

Rajat Kapoor
Aerospace Engineering

Hyounsoo Kim
Electrical and Computer Engineering

Yoon Duk Kim
Civil Engineering

Ryan Tucker Kristensen
Electrical and Computer Engineering

Sanghun Lee
Civil Engineering

Soonki Lee
Environmental Engineering

Arnaud Le Febvre De Nailly
Aerospace Engineering

Zhi Li
Textile and Fiber Engineering

Jessica Francis Madariaga
Economics

Ana Isabel Martin
Civil Engineering

Daniel T. Miau
Aerospace Engineering

Alex Montfort Moodie
Aerospace Engineering

Kyunglin Moon
Aerospace Engineering

Stephen Arthur Moore
Electrical and Computer Engineering

Souvik Mukherjee
Electrical and Computer Engineering

Asmerom Yemane Ogbazghi
Aerospace Engineering

Frauke Oldewurtel
Electrical and Computer Engineering

Irian Ordaz
Aerospace Engineering

Jeffrey S. Pinegar
Management

Rishi Ranjan
Electrical and Computer Engineering

John Daniel Reeves Jr.
Aerospace Engineering

Sebastien Maxime Ritter
Management

Charlotte Francoise Ronzino
Management

Michelle Yen-Ling Sander
Electrical and Computer Engineering

Dean Lawrence Sanzo
Mechanical Engineering

Troy Cyril Schank
Aerospace Engineering

Ganesh Parasuram Srinivasan
Electrical and Computer Engineering
Shyam Subramanian
Electrical and Computer
Engineering

Attapong Terdpravat
Mechanical Engineering

Wing Lun Ting
Electrical and Computer
Engineering

Andrew Joseph Watt
Mechanical Engineering

Justin David Weiler
Aerospace Engineering

Shawn Xiaotu Xu
Architecture

Xiao Yin
Architecture

Feng Zhang
Economics

Wenxian Zhang
Electrical and Computer
Engineering

Master of Science in Paper
Science Engineering

Yusup Chandra

Master of Science
in Human-Computer
Interaction

Joshua Todd Cothran
Justin Godfrey
Trecia C. White

Master of Science
in Bioengineering

Anne Claire Bellott
Ricky Christopher
Brathwaite
Yi-Yu Chou
Jie Shao
Karen Elizabeth Tisdale
Ashley Kay Wallin
Woodson

Master of Science
in Statistics

Dennis Joseph Day
Xuelei Ni

Master of Science
in Information Security

Poonam Ganesh
Hattangady
Deepak Jagannathan
Manohar
Vincent Robert Scarlata

Master of Science
in Computer Science

Marc Francois Berhault
Urs Bischoff
Carl Louis Cox
Brian Graham Harris
Thomas Bernard
Hildebrandt
Andrew Douglas Hilton
Kristin Kaster Lamberty
ChokSheak Lau
Donghan Li
Felix Konstantin Loesch
Gerald Fredrick
Lofstead II
Evangelos Markakis
Alex Marie Eric Mazingue
Harry G. Menhorn IV
Martin Bruce Modahl
Christopher Sinan Oezbek
Luke Anthony Olbrish
Charles Everett Pippin II
Byung-Uk Roho
Nitesh Singh
Daniel Severin Sternberg
Wiewiek Sunarko
Micah Zebulon
Wedemeyer
Chaoting Xuan
Kun Zhang

Master of Science
in Information Design
and Technology

Elizabeth Gayle Adams
Yvonne Caravia
Jill Marie Fantauzza
Sharon Haber
Wolfgang Heinrich
Reitberger

Master of Science
in Public Policy

Jason Raul Anavitarte
Stephen Daniel Burks
Pratik C. Mhatre
John Heejoon Uhn

Master of Industrial Design

Taro Astor Walcott

Master of Science
in Building Construction
and Facility Management

Nicole G. Pamplin
Nalinee Viriyachai

Master of Architecture

Alyssa Shank Durden
Yvan Paul Fouquet
Britney Lee Gore
Stephanie Henichart
Leslie Michelle Lyons
Hyunbo Seo
Imme Steinke
Jan Stolte
Mi Wang

Master of City and
Regional Planning

Raushan M. Johnson
Richard James Tyran
Master of Business Administration
Parasjit Singh Cheema
John Edward Elmore
Jayakumar Govindan
Imran Mirza Meghji
Elizabeth Tate Miller
Arati Srinivasan
Benjamin Todd White

Master of Science in Earth and Atmospheric Sciences
Yaquiu Li
Samuel D. Sibley Jr.
Kelly Katherine Smolinski

Master of Science in Psychology
Michelle Elizabeth Horhota
Jun Liu
Andrew S. Mienaltowski
Erin Elizabeth Page

Master of Science in Applied Biology
John Conor Hardeman
Dipinder Singh Keer

Master of Science in Bioinformatics
Jennifer Mary Dale
Myung Hee Shin
Bindu Venugopal
Bo Wang

Master of Science in Applied Mathematics
Tiffany Danielle Goble
Ryan Charles Hynd
Todd Keith Moeller
Victor Alfonso Morales-Duarte
Jose Miguel Renom-Andara
Kelvin R. Rocha
Becky Sue Upchurch
Jorge Viveros-Rogel
Florian Zickfeld

Master of Science in Physics
Rupa Bhaumik
Huifang Zhao

Master of Science in Chemistry
Matija Crne
Paul Lemuel Daubenmire
Shanker Unnikrishnan

Master of Science in Biomedical Engineering
Abhijit Madhav Paranjpe

Master of Science in Health Physics
Carmen Maureen Greene
Donette E. Lasher

Master of Science in Health Systems
Tariqul Delwar
Rehman Shiraz Meghani
Carrie Marie Richardson
Neha Sachdeva

Master of Science in Nuclear Engineering
Chad Michael Dillon
Joshua Malhorn Hawkes

Master of Science in Operations Research
Deena D.D. Daggett
Matthew Ottis Jones
Besarion Lordkipanidze

Master of Science in Industrial Engineering
Leon B. Barnard
Johana Fernandez de la Cruz

Master of Science in Aerospace Engineering
Marine Andreoletti
Andrea D. Beck
Keith Frederick Becker
Chong-Seok Chang
Hojoon Chang
Chien-Yu Chao
Alexander Eppe
Mandy Goltsc
Jefferson Leonard Grant
Rahul Kamada
Nayan Vinod Patel
Yoonghyun Shin
Samer Anwar Tawfik
Shang Zhou

Master of Science in Materials Science and Engineering
Zhe Cheng
Krishna Satyasreerama Cherukuri
Runrun Duan
Christopher Stephen Gaddis
Brian Craig Heaton
Dawn Laurel Heineman
Anubhav Jain
Jelila Sarah Mohammed
Ogundiran Soumonni

Master of Science in Chemical Engineering
Tanya Temaca Hicks
Rebecca Jelen Lee
Jennifer Luk
Bachelor's Degree Recipients

College of Computing

Bachelor of Science in Computer Science

Highest Honor
Barry Neil Fleming
Jonathan Gdalevich
Christopher Marvin Gibson
Benjamin David Ku
Dolapo Kukoyi
Gallagher Donovan Pryor
Joy Maria Shieh
Joseph Branham Uhl
Tengzhou Zhuang

High Honor
Kevin James Mitchell
Eric Allen Rahm
Miles Anthony Thomason
Allen Nelson Tyner
Jonathan Scott Woodbridge

Honor
Jonathan Paul Aguillard
Brian Patrick Byrne
Justin Chad Filoseta
Ryan Michael Graciano
Matthew Joseph Hicks
Joseph Francis Scocccimaro
Hang Yin

Brandon Jameel Aldridge
Mansoor Khaliq Babar
Samir Batta
Fadwa Berouel
Bryan Clayton Billings
Kyle Wesley Bumpus
John E. Calcagni
Akshai K. Chauhan
Naveen Dittakavi
Timothy William Donlan
Claudiu Christian Fofiu
James Edward Gaythwaite
Jeffrey Paul Goldstein
Kevin Vincent Gorham
James Matthew Hall
John Christopher Holmes
Spencer Tzuping Huang
Donko Velinov Jeliazkov
Shawkat Bassam Kabbara
Howard Todd Kaplan

Matthew William Lassiter
Brian Young Lee
Hyun-Chul Lee
James Albert Lee
Kevin Lee Lewis
Robert Geoffrey Meyers
Arash Mirdamadi
Viet Quoc Nguyen
Bruce N. Ota
Aaron Thomas Paden
Derek Alan Perry
Patrick James Ringham
Christian McCord
Schoeder
John J. Schuch
Daniel Thomas Still
Jason Curtis Tolsma
Awni Bassem Toukan
Robert Richard Walling III
Jerem L. Washington
Adam Michael Whitcomb

Bachelor of Science in Computer Science
Cooperative Plan

Highest Honor
Riyaz Habibbhai
Nabil Adam Scheer
Kristin Emma Vadas

Michael Carl Losapio
Daniel Lee Schaeffer
Leon Shell
Shawn Anthony Sousa
Un Chong Yim

Bachelor of Science in History, Technology, and Society

Highest Honor
Brandilyn Shay Price

Brian Christopher McMickle
Angela Corcoran Will

Bachelor of Science in Science, Technology, and Culture

Steven Brandenburg Colly
Matthew Stephen Harbers
Yoshika Kondo
Andre'a Nicole Lewis
Khaliyq Raashid Abdullah
Muhammad
Kelly Renee Peck
LaToya Kamish West

Bachelor of Science in Science, Technology, and Culture
Cooperative Plan

Honor
Jessica Ann Spinelli

Bachelor of Science in International Affairs and Modern Languages

Nikki Letra Cooksey

Bachelor of Science in International Affairs

Highest Honor
Banafsheh Azizi
Kathryn Elizabeth Byrnes
Brandilyn Shay Price

High Honor
Andrew Raymond Cox

Bachelor of Science in Public Policy

Heather Rae Whaler
Arienne Sarah Wyatt

Ivan Allen College of Liberal Arts

Bachelor of Science in Public Policy

Heather Rae Whaler
Arienne Sarah Wyatt

Bachelor of Science in International Affairs

Highest Honor
Banafsheh Azizi
Kathryn Elizabeth Byrnes
Brandilyn Shay Price

High Honor
Andrew Raymond Cox
Hastie Kargar
Anne-Marie Joy Richards
Amanda Kristine Gilley
Daniel Vall-llobera

Bachelor of Science
in Economics

High Honor
Sebastian Rodrigo Urbina

Honors
Mary Louise Vinuelas
Kathryn Lea Scott Hill
Niraj Kantubhai Patel

College of Architecture

Bachelor of Science

Ryan Edward Espinera
Jonathan Alexander Gonzalez

Bachelor of Science
in Building Construction

High Honor
Eric Andrew Bailey
Joseph David Pelliccione

Bachelor of Science
in Industrial Design

Highest Honor
Jamie T. Ostrov

High Honor
Claire Jane Porter
Ravi Alluri Varma

Honors
Melissa Williams Gribbon
Jessica Leigh Johnston
Ansley Crissey Whipple

Bachelor of Management

Honor
Hastie Kargar
Anne-Marie Joy Richards
Amanda Kristine Gilley
Daniel Vall-llobera

Bachelor of Science
in Economics

High Honor
Sebastian Rodrigo Urbina

Honors
Mary Louise Vinuelas
Kathryn Lea Scott Hill
Niraj Kantubhai Patel

College of Management

Bachelor of Science
in Management

Highest Honor
Baran Bulkat
Kelly Lynn Burrell
Lauren Nicole Cirou
Jessica Beth Dickerson
Kele Drew Eveland
Melanie Rae Nelson
Timothy Frederick
Uptagrafft
Meng Zhao

High Honor
Michael James Dorsher
Ashley Lauren Hansen
Kimberly Brooke Kessler
Eleanor Rawlings
Wickersham

Honors
Arti Agarwal
Brian James Walter Camp
Laura Anne Drucker
Scott Harrison Lieffers
Christine Susan Raj
Sarah Elizabeth Rogers

Bachelor of Science
in Management
Cooperative Plan

Highest Honor
Laura Ann Hickman
Christopher Ray Norris
Jonathan Hart Woodruff

Honors
Eric Robert Kriel
Joseph Martin Spanjers
Nancy Elizabeth Webb
College of Sciences

Bachelor of Science in Discrete Mathematics
Jonathan Meshad Wells

Bachelor of Science in Applied Biology
High Honor
Candice Brooke Burke
Eman Mohamed Kirbah
Jason Windham Reeves
Ashley Marie Ryan

Honor
Chad Eric Chinich
Sean Michael Stuart

Bachelor of Science in Applied Psychology
Highest Honor
Boris Y. Kerzhner

Honor
Alberta Germai Watkins

Bachelor of Science in Applied Mathematics
Highest Honor
Boris Y. Kerzhner

College of Engineering

Bachelor of Science in Physics
Highest Honor
Margaret Louise Trippe
Amanda Louise Jacob
Marty Eugene Stroud
Benjamin A. Thompson

Bachelor of Science in Chemistry
James Edward Hobbs
Amanda Louise Jacob

Bachelor of Science in Biomedical Engineering
Highest Honor
David Ryan Ashley
Megan Elizabeth Satterfield

High Honor
Julie Lynn Boddington

Honors
Jennifer Mariel Salgado
James H. Hamlin
Jessica Lynne Lott

Bachelor of Science in Computer Engineering
Highest Honor
Chirag Nitin Gandhi
Michael Benjamin Healy
Saunvit Dinesh Pandya
Alfredo Ramos

High Honor
Nhan Thanh Dinh
Juan Manuel Mojica

Bachelor of Science in Computer Engineering
Regional Engineering Program

Bachelor of Science in Nuclear and Radiological Engineering

College of Engineering

Bachelor of Science in Computer Engineering
Cooperative Plan

Highest Honor
Scott Michael Brady
Matthew Wesley Smithson

Honors
Daniel Gregory Tabor
Giancarlo Buzeli Yin
Eric Michael Angeli
Rinaldo Adriano Baietti
Thomas Chandler Bean
Michael Edward Shearin Jr.
Ryan Patrick Spanier

Bachelor of Science in Computer Engineering
Regional Engineering Program

Daniel Lewis Greenway
Precilla Kurien Varghese

Bachelor of Science in Nuclear and Radiological Engineering

Christine Ann Noelke
Bachelor of Science in Industrial Engineering

Highest Honor
Kokil Agarwal
Jennifer Brooke Classen
Michelle Marie Gilman
Franklin Adam Snow
Leah Leslie Weber

High Honor
Terri Michele Biggers
Mae Elizabeth Davenport
Kristine Marie Pettoni
Mark Boyd Stokes
Sebastian Rodrigo Urbina
Janet Wang

Honor
John Babcock Cottingham
Michael Patterson Elmer Jr.
Elizabeth Barnwell
Funderburk
Malini Lalitha Iyer
Danielle Marie Pyburn
Catherine Judith Richeson

Adeshola Titilola Adeniyi
Aneitra Shanell Batteast-Hurdle
Colleen Keegan Baum
Stephanie Mullane Bridwell
Roger Alan Burgrabe
Hsiao Gin Cheng
Alyce Marilyn Connors
Joshua Patrick Davis
David Payne Ehrman
Keilana Marie Frank
Myisha Faye Franklin
Laura Susan Ginn
Meredith Elaine Glass
John Jacob Goodbread
Fawaad Iqbal Haider
Adrienne Jennifer Hairston
Daniel Prakash Harvey
Stephanie Louise Hughes
Dana Duvalt Jennings IV
Timothy Patrick Judge
Hisham Ahmed Khaki
Scott Douglas King
Jean Kwak
David Jen-Luen Lee
Cezar Poydras Leoncio
Lindsay Lee Lockwood
Megan Leigh Mammarelli

Kelly Rene Mathis
Nooruddin Shamsuddin Parmar
Ketan N. Patel
Niraj Kantubhai Patel
Brandon Dante Richardson
Robin Allison Russell
Miya Ashanti Smith
Ryan Andrew Spradley
Jason Paul Szelest
Yolande Aecia Thame
Tien Phung Tran
Thomas York Walker
Christina Lynn Whitaker
Nathan A. Wright
Serge Grigorivich Yakubov
Tae-Hee Yook

Bachelor of Science in Aerospace Engineering

Highest Honor
Luis Nicolas Gonzalez Castro

Honor
Robert Tohisharu Igue

Benjamin Patrick Anderson
Nicholas Juan Coronado
Aida Karamesic
Mehul Pravin Patel
Adam Charles Plondke
Joseph Michael Stitt

Bachelor of Science in Chemical Engineering

Highest Honor
Elizabeth A. Costner
Shara Demetria McClendon
Nicholas William Silvestri

High Honor
Hien Thi Dang
Kathryn Elizabeth Jones
Catherine Elizabeth O'Connor
Gregory Patrick Robbins

Honor
Tram Dinh
Eugene Jung

Abimbola Oyindamola Balogun
Sebastian Garrett Daskawicz-Davis
M. Garren Findlay
Hsin-Wei Fu
Roderick Noel Galan
Ezequiel Alejandro Gutierrez-Zorrilla
Bradley Thomas Heron
Ryan Christopher Holbird
Thanh My Hongkham
Mohini Jain
Rosalie Ivy Kelly
Robert Neal Kinsey
Amy Gail Kruse
Kira Alexis Kuck
Lauren Ann Proffitt
Thalas Rattanaxay
Bianca Vanessa Russ
Rebecca Marie Seibert
Praveena Venugopalan
Bachelor of Science in Chemical Engineering
Cooperative Plan
Highest Honor
Joshua Richard Farr
William Benjamin Wellborn
Mark Dallas Wells

High Honor
Katelyn Elizabeth Swindle

Matthew Mahlon Bruley
Jennifer Lynne Ebner
Charles Kenny Lee
William George Pop III
Ryan Richardson Roper
Bob Chih-yu Shih

Bachelor of Science in Polymer and Textile Chemistry
Shalonda Andrea Hall
Davene Renee Wright

Bachelor of Science in Textile Enterprise Management
Jesse James Griffin

Bachelor of Science in Textile Enterprise Management
Shoy Rashel Allison

Bachelor of Science in Polymer and Fiber Engineering
Cooperative Plan
Candice L. Downs

Bachelor of Science in Civil Engineering
Cooperative Plan
Highest Honor
Daniel Coke Barr
Staci Lynn Beckwith
Addison B. Farley
Donald Adam Gentry
Andrew Joseph Schildmeyer

High Honor
Stephanie Carolyn Hom
Timothy Marshall
Jackson Siwinski
David Alvin Smith

Honor
Nelson De La Torre
Anthony Ferrant Fisher
Giovanna Elizabeth Morris
Micah Florence Ballton
Michael Dennis Bellamy
Wendy Lynn Byerly
Max Reagan Coursey
William Todd Daprano
Jason Kyle Davis
Cornell Dennis Lloyd Gayle
Mehlanta Diodonna Elise Herron
Christina Nicole Lokey
Michelle Leigh Lyons
Douglas Eric Maney
Kevin Lee Maxwell
Adam Marshall McDaniel
Christian Livingston Pitts
Aaron Thomas Reddy
Andrew Lee Tartaglia
Ashley Iman Thompson
Kevin John Thorstad
Shirley Aida Wintsch
Autumn Alexis Wycoff

Bachelor of Science in Electrical Engineering
Cooperative Plan
Highest Honor
Irene Dershin Chow
Itai S. Eden
Hammad Tahir Khan
Farhana Zaman

High Honor
Leah Linn Burnett
Fen Nan Lee
Thomas Daniel Loveless
Valerio Oriochio
Kevan Arlen St. Clair Victor

Honor
David W. Bettis
Jason Paul Clark
Shamas Musthafa Ummer
Mark Thomas Allers
Carlos Bonilla Jr.
Sean Paul Braunbeck
Constance Maria Carter
Jerry Lee Cox Jr.
Ngoc Hoa Dong
Justin John Esher
Michael Sean Faughnan
Archana Jain
Bryan Dale Jones
Leif Andrew Larson
Jason Richard Marcell
David W. Massey
Jason Emmanuel Murchison
Son Thanh Nguyen
Krunal V. Patel
Vishal Chandrakant Patel
Jolawn O. Richardson
Glenda Michelle Schumann
Kyle Lloyd Seaton
Shonta Latrece Shephard
Stephen Burnette
Thompson
Steven Keith Thompson
Narayana Chenulu
Varahabhatla
Adam Reid Walding
Donald L. Yeh

Bachelor of Science in Civil Engineering
Cooperative Plan
Nebiat Tsehaye Abraham
Robert Newton Askew Jr.
Christopher Douglas Cash
Alisha Ryan Kaplan
Erin Rebecca Lawson
Dashaun Montell Milling

Bachelor of Science in Electrical Engineering
Cooperative Plan
High Honor
Robert Trevor Yhap
College of Engineering
Continued

Jeremy David Cox
Bryan William Manson
Rusty Keith Ortkiese
Christopher Mark Sanders

Bachelor of Science
in Electrical Engineering
Regional Engineering Program

Clinton Eric Amerson

Bachelor of Science
in Electrical Engineering
Regional Engineering Program, Cooperative Plan

Paul Bryan Saa

Bachelor of Science
in Mechanical Engineering

Highest Honor
David Forbes Blackburn
Marcus Todd Eliason
Sheenfar Sean Fong
Shawn Michael O'Connor

High Honor
Zachary Jonathan Eaton
Joseph Young Kim
David Shawn Sanford

Honor
Frederick John Bailey IV
Anthony Martin Jr.

Davide Allan Bianchini
Jason Bryan Chaﬁn
Daniel William Chind
Matthew Collins II
Justin DeRogers Cotton
Keith Lynn Cox
Ryan Benjamin Curry
James Lee Dalberg
David Randall Doerman
Gary Wayne Forbes
Darceea K. Hasberry
Karol Constantine Hatzilias

Heather Anne Ivey
Edwin Jay Johnson
Attir Khalid
Eric Hugh Knapp
Vincent Thomas Langabee
Armond Telmarez Lemon
Cory Phillip Reissig
Nicholas Lee Slaters
Adis Skejic
Hugh Huyle Tran
Cato Walthour III
Calvin Shiu Lun Wan
Joel Ray Williams

Bachelor of Science
in Mechanical Engineering
Cooperative Plan

Highest Honor
Justin Cyle Bennett
Donald Albert Bradley
James Lamar Cline Jr.
Milnes Paul David
John Spencer Tyndall
Philip Ronald Veazey Jr.

High Honor
Michael Rutledge Flynn
Erik Oscar Sunden

Honor
Priscilla Amber Harmon

Hesham Fahmi Abukhdeir
Anthony Joseph Agusti
Carter Crittenden Bennett
Joel Samuel Binder
Thomas Justin Christian
Geminesse Mayresa Dorsey
Timothy Brian Fitzsimmons
Jarod Paul Harper
Colin William Holden
Nicholas D. Keller
Carl Thompson Laniak
Matthew Jeremy Litman
Christopher Roy Morrison
Russell Keith Ortkiese
Andrew Ogden Wyse
Georgia Tech’s chief academic officer, Provost and Vice President for Academic Affairs Jean-Lou Chameau also serves as Georgia Research Alliance Eminent Scholar and professor of civil and environmental engineering. He previously served as dean of Georgia Tech’s College of Engineering.

Much of Dr. Chameau’s work is focused on making Georgia Tech a worldwide model for interdisciplinary activities, technology innovation and entrepreneurship, and sustainable technology, as well as a catalyst for economic development. He is placing a particular emphasis on efforts to improve the educational experience of students, increase diversity on campus, and foster entrepreneurship and international opportunities for faculty and students.

Honors and awards Dr. Chameau has received include the Georgia Tech Student Government Association Administrator of the Year, Cross-Canada Geotechnical Lecturer, Distinguished Lecturer of the National Science Council (Taiwan), American Society of Civil Engineers A. Casagrande Award, National Science Foundation Presidential Young Investigator Award, and the Medaille d’Argent, Ecole Nationale Superieure d’Arts et Metiers (Paris, France).

Dr. Chameau received his secondary and undergraduate education in France, and graduate education in civil engineering from Stanford University. He served on the civil engineering faculty at Purdue University from 1980 to 1991, and was director of the School of Civil and Environmental Engineering at Georgia Tech from 1991 to 1994. In 1994-95, he was president of Golder Associates Inc., before returning to Georgia Tech as dean of the College of Engineering. He currently serves on the boards of directors for MTS Systems Corporation and Prime Engineering.
Professor C. P. Wong

A professor in Georgia Tech's School of Materials Science and Engineering since 1996, C. P. Wong holds a bachelor's degree in chemistry from Purdue University and a Ph.D. in inorganic/organic chemistry from Pennsylvania State University. After his doctoral study, he was awarded a two-year postdoctoral fellowship with Nobel Laureate Professor Henry Taube at Stanford University, where he conducted studies on the electron transfer and reaction mechanism of metallocomplexes. He was the first person to synthesize the first known lanthanide and actinide porphyrin complexes, which represents a breakthrough in metalloporphyrin chemistry.

In 1977, Dr. Wong joined AT&T Bell Laboratories and began working on the research and development of polymeric materials for electronic and photonic applications. In 1992, he was elected an AT&T Bell Laboratories Fellow (the most prestigious award bestowed by Bell Labs) for his fundamental contributions to low-cost, high-performance plastic packaging of semiconductors. Upon joining the Tech faculty in 1996, Dr. Wong also became research director of the NSF-funded Packaging Research Center. He was named a Regents' Professor in 2000. His research interests lie in the fields of polymeric materials, high Tc ceramics, materials reaction mechanism, and IC encapsulation.

In the eight years since he joined Georgia Tech's faculty, Dr. Wong has secured research grants and contracts from a wide variety of government agencies and private corporations. For these distinguished efforts, he received the Georgia Tech Outstanding Research Program Development Award in 1999. In addition, Dr. Wong has received more than twenty-five Outstanding and Best Paper Awards from the Institute of Electrical and Electronics Engineers and the International Materials and Packaging Society since 1996. Among these honors are the IEEE Outstanding Sustained Technical Contribution Award, the Award of Excellence from University Press (London), the 2002 IEEE Exceptional Technical Achievement Award, the Harry Toops Award for Fundamental Contributions to Electronic Packaging, and awards from the Georgia Tech chapter of Sigma Xi for Best Faculty, Best Master's Thesis, and Undergraduate Research. For his sustained and significant contributions in materials and process in electronics, he was elected a member of the National Academy of Engineering in 2000.

Throughout his career, Dr. Wong has been teaching and mentoring students. Since coming to Georgia Tech, he has served as thesis advisor to seven Ph.D. students and fourteen master's students, in addition to advising fourteen undergraduates and twelve postdoctoral fellows and visiting scholars. Dr. Wong has also participated in Georgia Tech's Summer Program for Undergraduate Research, Summer Undergraduate Research for Underrepresented Students, and the Georgia Summer Intern for High School Teachers programs.
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. degrees in civil engineering from Georgia Tech in 1964 and 1965, respectively, and a Ph.D. in civil engineering from the University of California, Berkeley, in 1969.

Formerly a faculty member at Duke University, Stanford University, Virginia Tech, and the University of Washington, Dr. Clough served as head of the Civil Engineering Department and dean of the College of Engineering at Virginia Tech, and as provost and vice president for Academic Affairs at the University of Washington.

During his tenure as president, Georgia Tech has served as the Olympic Village for the 1996 Centennial Games, research expenditures have increased from $212 million to $370 million, a required computer initiative for all students was implemented, and enrollment has increased from 13,000 to 16,500. More than $1 billion in private gifts have been secured, and the statewide Georgia Tech Regional Engineering Program has been implemented. A building program of more than $900 million has been completed, with another $300 million in planning or design.

Dr. Clough has received eight national awards from the American Society of Civil Engineers, including the 2004 OPAL Award for Lifetime Achievement in Education. He is one of a handful of civil engineers to have been twice awarded civil engineering's oldest recognition, the Norman Medal, in 1982 and in 1996. He received the George Westinghouse Award from the American Society of Engineering Education in 1986 for outstanding teaching and research. Elected to the National Academy of Engineering (NAE) in 1990, Dr. Clough was awarded the 2001 National Engineering Award by the American Association of Engineering Societies and in 2002 was named an honorary member of the American Society of Civil Engineers.

In 2001, President George W. Bush appointed Dr. Clough to the President's Council of Advisors on Science and Technology, and he currently chairs a nanotechnology task force and previously chaired the Federal Research and Development panel. He is a member of the Markle Foundation Task Force on National Security in the Information Age. Other current service activities include: chair, Governor's Telecommunication Task Force; member, Executive Committee of the U.S. Council on Competitiveness (co-chair of the National Innovation Initiative); and member, NAE (chair of the Engineer of 2020 Project). He is a member of the Executive Committee of the Metro Atlanta Chamber of Commerce and a trustee of the Georgia Research Alliance.

He serves on the Board of Advisors for Noro-Moseley Partners, the Southeast's largest venture capital fund, and the Board of Directors of TSYS of Columbus, Georgia. He serves as a special consultant to the San Francisco Bay Area Rapid Transit System for ongoing major seismic retrofit operations. For seven years Georgia Trend magazine has listed him among the 100 Most Influential People in Georgia.

Dr. Clough's interests include technology and higher education policy, economic development, diversity in higher education, and technology in a global setting. His academic specialty is geotechnical and earthquake engineering, and he has published more than 120 papers and reports and six book chapters.
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 installation 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 with the Center for Assistive Technology and Environmental Access in the College of Architecture, in conjunction with Atlanta jeweler Robert Nagle.
College of Computing

The College of Computing is a leader in integrating computer science with other disciplines to address problems in a number of areas including 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 four interdisciplinary research centers: the Center for Experimental Research in Computer Systems; the Georgia Tech Information Security Center; the Graphics, Visualization, and Usability Center; and the Modeling and Simulation Research and Education Center.

In the fall of 2003, enrollment in the College included 1,236 undergraduate students and 484 graduate students.


Ivan Allen College of Liberal Arts

The Ivan Allen College, created in 1990, is the liberal arts college of Georgia Tech. The curriculum and research initiatives of the College are designed to explore the crucial union of science, technology, the humanities, and the social sciences. The six schools within the College include Economics; History, Technology, and Society; the Sam Nunn School of International Affairs; Literature, Communication, and Culture; Modern Languages; and Public Policy. The College enrolled 704 undergraduates and 227 graduate students in the fall of 2003.

The College has been an innovative leader in the fields of information and game design, educational technologies, Internet governance, international security, and the advancement of women in science and engineering, among other areas. In addition to promoting interdisciplinary research in a wide range of areas, the Ivan Allen College has earned a reputation for excellence in teaching, both at the Institute and national levels. One of the College’s ongoing initiatives is the increasing application of computers and use of state-of-the-art audiovisual equipment in the classroom. 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 2003, 639 undergraduate and 331 graduate students were enrolled in the various academic programs of the College, including architecture, building construction, city and regional planning, doctoral studies, industrial design, and music. Although the College presently offers only a minor in music, approximately 1,140 students, representing all colleges at Georgia Tech, enrolled in music courses each semester in 2002-2003.

Some of the College’s more prominent alumni include John Portman (1950), John Portman and Associates, designer of Peachtree Center; George Heery (1950), former chairman of the board, Heery International, designer of the Coca-Cola Building; Thomas W Ventulett III (1958), senior principal of Thompson, Ventulett, Stainback & Associates, designer of CNN Center in Atlanta and the McCormick Place complex in Chicago; Mack Scogin (1967), former chair of the Department of Architecture at Harvard University; and Michael Arad (1999), designer of the World Trade Center Memorial in New York.

Research programs in the College of Architecture include the Center for Assistive Technology and Environmental Access, the Construction Resources Center, the Center for Geographic Information Systems, the IMAGINE Group, the Advanced Wood Products Laboratory, and the Center for Quality Growth and Regional Development.
College of Management

The intersection of business and technology is at the heart of the College of Management, the business school at Georgia Tech. Today that focus is more relevant than ever before. Leveraging Georgia Tech's strengths in entrepreneurship and technology innovation, the program grounds students in critical thinking and teaches them to perform in a highly technological and global environment. The interdisciplinary nature of the curriculum stresses teamwork, cultural diversity, and relevant solutions to real-world problems to create a solid educational foundation for the business leaders of tomorrow.

Georgia Tech's business school, which enrolled approximately 1,122 undergraduates, 256 graduate students, and 32 executive master's students in fall 2003, has earned a place among the most highly respected business programs in the nation since it was established in 1913. Today, the business school offers bachelor's, M.B.A., executive master's, and Ph.D. degrees, as well as a wide range of programs for executives and professionals.

College of Sciences

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

In the fall of 2003, the College enrolled 865 undergraduate students and 740 graduate students. Some high-profile graduates of the College of Sciences are Ashworth Stull (1937), inventor of the “White Glue” that became known as Elmer's Glue; Glen P. Robinson Jr. (1948, 1950), founder of Scientific-Atlanta and owner of patents on solar energy and antenna systems and energy; Kary B. Mullis (1966), inventor of polymerase chain reactions and Nobel Prize recipient; Gilbert F. Amelio (1965, 1967, 1968), former chairman and CEO, Apple Computer; and Nancy “Jan” Davis (1975), astronaut.

College of Engineering

From the opening of the Institute and the establishment of the School of Mechanical Engineering in 1888, the College of Engineering has continually grown. Today, the College incorporates ten degree-granting units with a 2003 total enrollment of 9,843 students. It consistently ranks among the top five engineering schools in the country, both in size and program quality.


Athletics

At Georgia Tech, academics and athletics truly do mix, and the Institute is rich in both traditions. Tech competes on the NCAA Division I level within the twelve-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 track gold medalists Antonio McKay, Derrick Adkins, and Derek Mills; basketball standouts Mark Price and John Salley; baseball greats Nomar Garciaparra and Kevin Brown; professional golfers David Duval, Stewart Cink, and Matt Kuchar; and fourteen members of the National Football Foundation's College Football Hall of Fame.
Tech athletes have been led by legendary coaches such as Bobby Dodd, 1945-66; John Heisman, 1904-19; William Alexander, 1920-44; John "Whack" Hyder, 1952-73; and Bobby Cremins, 1982-2000.

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

Georgia Tech Research Institute
The Georgia Tech Research Institute (GTRI) is the nonprofit, applied research arm of the Georgia Institute of Technology. GTRI plans and conducts focused programs of innovative research, education, and economic development that advance the global competitiveness and security of Georgia, the region, and the nation. GTRI's approximately 1,200 employees perform or support more than $120 million in research yearly for clients in federal, state, local, and international government agencies, industrial firms, academic institutions, and private organizations.

Research areas include aerospace, transportation, advanced systems, electronics systems, electro-optics, environmental science, materials characterization, information technology and telecommunications, sensors, electromagnetic applications, and signatures technology, among others. GTRI's mission includes promoting Georgia's industrial and economic development; encouraging development and use of Georgia's natural resources; providing continuing education instruction; and participating in national programs of science, technology, and preparedness.

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 two thousand volumes. Now the library contains more than 1 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 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.

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 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 skullcaps 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 mortarboards, and tassels are white and gold.

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**The Academic Regalia**

**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

Alumni Programs
Allison Brubaker
Announcer
Dr. William Johnson
Campus Police
Teresa Crocker and staff
Graduate Studies
Maureen Kilroy
Institute Communications and Public Affairs
Aimee Anderson and staff
Music Department
Frank Clark, Christine Marks, and
Ron Mendola
Plant Operations
Staging staff
Registrar's Office
April Boatwright, Angela Bradd, Candy Carson,
Ann Laros, Jo McIver, Debbie Williamson,
Craig Womack, and staff
Sound Designer
Jess McCurry
Student Affairs (AdAPTS)
Tameeka Hunter

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.