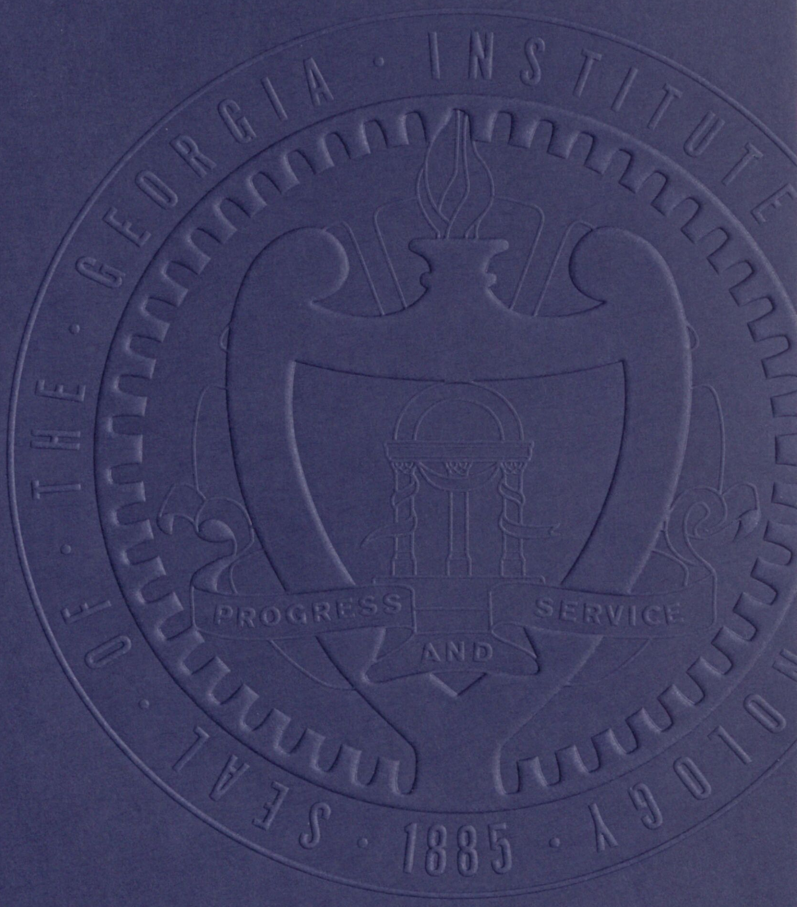
Georgia Institute of Technology



Commencement Ceremony

SPRING 2005

MEYER

Welcome to the 221st 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 2,400 undergraduate and graduate students, today's ceremony recognizes their academic achievements at Georgia Tech and inaugurates a new era in their careers.

Spring Semester
May 7, 2005 • 9:00 A.M.
Georgia Dome

PROCESSIONAL	Georgia Tech Commencement Ensemble, coordinated by Dr. Frank Clark, Department of Music
MASTER OF CEREMONIES	Dr. Wayne Clough, President
REFLECTION	Steve Fazenbaker, Director and Campus Minister, Wesley Foundation at Georgia Tech
NATIONAL ANTHEM	Georgia Tech Commencement Ensemble
COMMENCEMENT ADDRESS	The Honorable Samuel W. Bodman U.S. Secretary of Energy
PRESENTATION OF DOCTORAL DEGREE CANDIDATES	Dr. Charles Liotta, Vice Provost for Research and Dean of Graduate Studies
CONFERRING OF DEGREES	Dr. Clough
PRESENTATION OF MASTER'S DEGREE CANDIDATES	Dr. Liotta
CONFERRING OF DEGREES	Dr. Clough
INTRODUCTION OF ACADEMIC DEANS	Dr. Jean-Lou Chameau, Provost and Vice President, Academic Affairs
PRESENTATION OF UNDERGRADUATE DEGREE CANDIDATES	College of Computing Associate Dean Maureen Biggers Ivan Allen College of Liberal Arts Dean Sue V. Rosser College of Architecture Dean Thomas D. Galloway College of Management Dean Terry C. Blum College of Sciences Dean Gary B. Schuster College of Engineering Associate Dean Jane C. Ammons

CONFERRING OF DEGREES	Dr. Clough
COMMISSION RECOGNITION CEREMONY	LTC Alfred Scott Jr. Army ROTC
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 seventy 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

Natasha D. Case
Thesis: "Oscillatory Compressive Loading Effects on Mesenchymal Progenitor Cells Undergoing Chondroprogenic Differentiation in Hydrogel Suspension"
Advisor: Dr. Robert E. Guldberg

Matheau A. Julien
Thesis: "Mechanical Strain-mediated Syndecan Regulation and its Effects on Adhesion of Vascular Smooth Muscle Cells"
Advisor: Dr. Elliot L. Chaikof

Natalia Landazuri
Thesis: "Effects of Flocculation on Retrovirus Processing, Delivery, and Transduction"
Advisor: Dr. Joseph LeDoux

Puneet Sharma
Thesis: "Comparison of Delayed Contrast-enhanced Magnetic Resonance Imaging of Myocardial Viability at 1.5 and 3 Tesla"
Advisor: Dr. John N. Oshinski

Michael Elliott Sorensen
Thesis: "Functional Consequences of Model Complexity in Hybrid Neural-microelectronic Circuits"
Advisor: Dr. Stephen P. DeWeerth

Jin Suo
Thesis: "Investigation of Blood Flow Patterns and Hemodynamics in the Human Ascending Aorta and Major Trunks of Right and Left Coronary Arteries Using Magnetic Resonance Imaging and Computational Fluid Dynamics"
Advisor: Dr. Don P. Giddens

Yun Xing
Thesis: "Effects of Mechanical Forces on the Biological Properties of Porcine Aortic Valve Leaflets"
Advisor: Dr. Ajit Yoganathan

Doctor of Philosophy
Computer Science

Yuan Chen
Thesis: "Opportunistic Overlays: Efficient Content in Mobile Environments"
Advisor: Dr. Karsten Schwan

Yaxin Liu
Thesis: "Decision-theoretic Planning Under Risk-sensitive Planning Objectives"
Advisor: Dr. Sven Koenig

Arnab Paul
Thesis: "Designing Secure and Robust Distributed and Pervasive Systems with Error-correcting Codes"
Advisor: Dr. Umakishore Ramachandran

Heather Anne Richter
Thesis: "Designing and Evaluating Meeting Capture and Access Services"
Advisor: Dr. Gregory D. Abowd

Ivan Tacic
Thesis: "Efficient Synchronized Data Distribution Management in Distributed Simulations"
Advisor: Dr. Richard M. Fujimoto

Joseph Carl Tullio
Thesis: "Exploring the Design and Use of Forecasting Groupware Applications With an Augmented Shared Calendar"
Advisor: Dr. Elizabeth D. Mynatt

Doctor of Philosophy
Public Policy

Eliesh O'Neil Lane
Thesis: "Decision Making in the Human Subjects Review System"
Advisor: Dr. Richard P. Barke

Doctor of Philosophy
Architecture

Weiling He
Thesis: "Flatness Transformed and Otherness Embodied: A Study of John Hejduk's Diamond Museum and Wall House 2 Across the Media of Painting, Poetry, Architectural Drawing, and Architectural Space"
Advisor: Dr. John Peponis

Sugie Lee
Thesis: "Metropolitan Growth Patterns' Impact on Intra-regional Spatial Differentiation and Inner-Ring Suburban Decline: Insights for Smart Growth"
Advisor: Dr. Steven P. French

Debajyoti Pati
Thesis: "Maximizing the Benefits of Courtroom POEs in Design Decision Support and Academic Inquiry Through a Unified Conceptual Model"
Advisor: Dr. Craig M. Zimring

Doctor of Philosophy
Management

Can Uslay
Thesis: "The Role of Pricing Strategy in Market Defense"
Advisor: Dr. Naresh K. Malhotra

Doctor of Philosophy
Earth and Atmospheric Sciences

Susan Anne Elston
Thesis: "Secondary Circulation in a Sinuous Coastal Plain Estuary"
Advisor: Dr. Jackson O. Blanton

Yan Huang
Thesis: "Assessments of the Direct and Indirect Effects of Anthropogenic Aerosols on Regional Precipitation over East Asia Using a Coupled Regional Climate-Chemistry-Aerosol Model"
Advisor: Dr. William L. Chameides

Brent Adam McDaniel
Thesis: Intraseasonal Dynamical Evolution of the Northern Annular Mode"
Advisor: Dr. Robert X. Black

Raymond Derrell Mooring
Thesis: "On Using Empirical Techniques to Optimize the Shortwave Parameterization Scheme of the Community Atmospheric Model Version Two Global Climate Model"
Advisor: Dr. Robert Dickinson

Doctor of Philosophy
Applied Biology

Christopher David Banna
Thesis: "Characterization of DAP1/YPL170W: the Saccharomyces Cerevisiae Membrane Associated Progesterone Receptor (MAPR) Homologue"
Advisor: Dr. Jung H. Choi

Kavita C. Gokhale
Thesis: "Interactions Between Endogenous Prions, Chaperones, and Poly-glutamine Proteins in the Yeast Model"
Advisor: Dr. Yury O. Chernoff

Mandi Michelle Murph
Thesis: "A Characterization of the Human G Protein-coupled Receptor, Lysophosphatidic Acid 1: Its Intracellular Trafficking and Signaling Consequences on the Tumor Suppressor, P53"
Advisor: Dr. Harish Radhakrishna

Doctor of Philosophy
Mathematics

Marcus David Sammer
Thesis: "Aspects of Mass Transportation in Discrete Concentration Inequalities"
Advisor: Dr. Prasad Tetali

Jose Luis Sanchez
Thesis: "A Study of Dynamics of Coupled Nonlinear Circuits"
Advisor: Dr. Shui-Nee Chow

Luis Hernandez Urena
Thesis: "Pricing of Game Options in a Market with Stochastic Interest Rates"
Advisor: Dr. Robert P. Kertz

Doctor of Philosophy
Psychology

Tracy Michelle Kantrowitz
Thesis: "Development and Construct Validation of a Measure of Soft Skills Performance"
Advisor: Dr. Ruth Kanfer

Doctor of Philosophy
Physics

Selcuk Akturk
Thesis: "Extending Ultrashort-Laser-Pulse Measurement Techniques to New Dimensions, Time Scales, and Frequencies"
Advisor: Dr. Rick P. Trebino

Armando Alonso Anaya
Thesis: "Spin Valve Effect in Ferromagnet-Superconductor-Ferromagnet Single Electron Transistor"
Advisor: Dr. Dragomir Davidovic

Asmerom Yemane Ogbazghi
Thesis: "Conductance Through Nanometer-scale Metal-to-Graphite Contacts"
Advisor: Dr. Phillip N. First

Ziyang Wang
Thesis: "Next-generation Ultrashort-pulse Retrieval Algorithm for Frequency-resolved Optical Gating: The Inclusion of Random (Noise) and Non-random (Spatio-temporal Pulse Distortions) Error"
Advisor: Dr. Rick P. Trebino

Doctor of Philosophy
Chemistry

Micah Lowell Abrams
Thesis: "General-order Single and Multireference Methods in Quantum Chemistry"
Advisor: Dr. C. David Sherrill

Huachuan Cao
Thesis: "Probe Oxidative Damage in DNA Charge Transfer Process"
Advisor: Dr. Gary B. Schuster

Jeffrey R. Capadona
Thesis: "Surface-directed Assembly of Fibrillar Extracellular Matrices"
Advisor: Dr. David M. Collard

Janine Elizabeth Captain
Thesis: "Non-thermal Interactions on Low-temperature Ice and Acqueous Interfaces"
Advisor: Dr. Thomas Orlando

Amy Meyers
Thesis: "The Design and Synthesis of Metal-functionalized Poly(norbornenes) for Potential Use in Light-emitting Diodes"
Advisor: Dr. Marcus Weck

Radha Narayanan
Thesis: "Shape-dependent Nanocatalysis and the Effect of Catalysis on the Shape and Size of Colloidal Metal Nanoparticles"
Advisor: Dr. Mostafa A. El-Sayed

Satish Prakash Nayak
Thesis: "Design, Synthesis, and Characterization of Multiresponsive Microgels"
Advisor: Dr. L. Andrew Lyon

Christine Marie Nolan
Thesis: "Microgel-based Materials for Controlled Macromolecule Delivery"
Advisor: Dr. L. Andrew Lyon

Joshua S. Sasine
Thesis: "Nanocapsules: Calix[4]arene Derivatives that Self-assemble Through Ionic Interactions in Polar Solvents"
Advisor: Dr. Suzanne B. Shuker

Tamas Varga
Thesis: "Synthesis and Characterization of Some Low and Negative Thermal Expansion Materials"
Advisor: Dr. Angus P. Wilkinson

Jie Zheng
Thesis: "Fluorescent Noble Metal Nanoclusters"
Advisor: Dr. Robert M. Dickson

Doctor of Philosophy
Materials Science and Engineering

Monique Sandra McIntosh
Thesis: "Mechanisms and Factors Affecting Chromium Oxide Particle Reduction in Iron-Chromium Honeycombs"
Advisor: Dr. Thomas H. Sanders

Doctor of Philosophy
Textile Engineering

Lulu Song
Thesis: "Study of Ordered Macroporous Polymer Films by Templating Breath Figures"
Advisor: Dr. Mohan Srinivasarao

Walter Philip Watson
Thesis: "Hybrid Macrocycles for Supramolecular Assemblies"
Advisor: Dr. Haskell W. Beckham

Doctor of Philosophy
Industrial Engineering

Na An
Thesis: "Resource Modeling and Allocation in Competitive Systems"
Advisor: Dr. Wedad J. Elmaghraby

Claudia F. Antonini
Thesis: "Folded Variance Estimators for Stationary Time Series"
Advisor: Dr. David Goldsman

Li Wei Daniel Bai
Thesis: "Inventory Control and Demand Distribution Characterization"
Advisor: Dr. Kwok-Leung Tsui

Karin Boonlertvanich
Thesis: "Extended-CON-WIP-Kenban System: Control and Performance Analyis"
Advisor: Dr. Chen Zhou

Myun-Seok Cheon
Thesis: "Global Optimization of Monotonic Programs: Applications in Polynomial and Stochastic Programming"
Advisor: Dr. Faiz A. Al-Khayyal

Maurice Avrum Garfinkel
Thesis: "Minimizing Multi-zone Orders in the Correlated Storage Assignment Problem"
Advisor: Dr. Gunter P. Sharp

Seung-June Hwang
Thesis: "Inventory Constrained Maritime Routing and Scheduling for Multi-commodity Liquid Bulk"
Advisor: Dr. Faiz A. Al-Khayyal

Seoung Bum Kim
Thesis: "Data Mining in Tree-based Models and Large-scale Contingency Tables"
Advisor: Dr. Kwok-Leung Tsui

Yun Fong Lim
Thesis: "Some Generalizations of Bucket Brigade Assembly Lines"
Advisor: Dr. John J. Bartholdi

Yongro Park
Thesis: "A Statistical Process Control Approach for Network Intrusion Detection"
Advisor: Dr. Kwok-Leung Tsui

Bin Shi
Thesis: "Multiscale Statistical Analysis of Self-similiar Processes with Applications in Geophysics and Health Informatics"
Advisor: Dr. Branislav Vidakovic

Hee Jung Sim
Thesis: "Strategic Capacity Investment with Partial Reversibility under Uncertain Economic Condition and Oligopolistic Competition"
Advisor: Dr. Shijie Deng

Brian K. Sperling
Thesis: "Information Distribution in Complex Systems to Improve Team Performance"
Advisor: Dr. Amy R. Pritchett

Doctor of Philosophy
Aerospace Engineering

Hongmei Chen
Thesis: "A Multi-scale Forecasting Methodology for Power Plant Fleet Management"
Advisor: Dr. Dimitrios N. Mavris

Gregory A. Dukeman
Thesis: "Closed-loop Nominal and Abort Atmospheric Ascent Guidance for Rocket-powered Launch Vehicles"
Advisor: Dr. Anthony J. Calise

Robert Rudolph Erickson
Thesis: "A Numerical Investigation on the Influence of Engine Shape and Mixing Processes on Wave Engine Performance"
Advisor: Dr. Ben T. Zinn

Andrew P. Frits
Thesis: "Formulation of an Integrated Robust Design and Tactics Optimization Process for Undersea Weapon Systems"
Advisor: Dr. Dimitrios N. Mavris

Jung-Ho Lewe
Thesis: "An Integrated Decision-making Framework for Transportation Architectures: Application to Aviation Systems Design"
Advisor: Dr. Daniel P. Schrage

Sriram K. Rallabhandi
Thesis: "Sonic Boom Minimization through Vehicle Shape Optimization and Probabilistic Acoustic Propagation"
Advisor: Dr. Dimitrios N. Mavris

Shuyi Xu
Thesis: "Turbulent Mixing of Passive Scalars at High Schmidt Number"
Advisor: Dr. Pui-Kuen Yeung

Yongjun Zhao
Thesis: "An Integrated Framework for Gas Turbine-based Power Plant Operational Modeling and Optimization"
Advisor: Dr. Dimitrios N. Mavris

Doctor of Philosophy
Chemical Engineering

Luis Felipe Aguilar
Thesis: "Development of Sulfur Tolerant Materials for the Hydrogen Sulfide Solid Oxide Fuel Cell"
Advisor: Dr. Jack Winnick

Matthew L. Brown
Thesis: "Dynamics of Rigid Fibers in a Planar Converging Channel"
Advisor: Dr. Cyrus K. Aidun

Gregory Michael Fike
Thesis: "Determination of Polymer Film Development through Surface Characterization Studies"
Advisor: Dr. Sujit Banerjee

Gary Dean Gray Jr.
Thesis: "Design, Modeling, and Testing of High-performance RF Bistable Magnetic Actuators"
Advisor: Dr. Paul A. Kohl

Niket S. Kaisare
Thesis: "Modeling, Analysis, and Control of Nonlinear Switching Systems"
Advisor: Dr. Jay H. Lee

Hollie Anne Kelleher
Thesis: "Air Gaps via Thermally Decomposable Polymers and Their Application to Compliant Wafer-level Packaging (CWLP)"
Advisor: Dr. Paul A. Kohl

Michael Wayne McKittrick
Thesis: "Single-site Olefin Polymerization Catalysts via the Molecular Design of Porous Silica"
Advisor: Dr. Christopher W. Jones

Joseph Vu Nguyen
Thesis: "Design, Synthesis, and Optimization of Recoverable and Recyclable Silica-immobilized Atom Transfer Radical Polymerization Catalysts"
Advisor: Dr. Christopher W. Jones

Christoper Lee Timmons
Thesis: "Fluorocarbon Post-etch Residue Removal Using Radical Anion Chemistry"
Advisor: Dr. Dennis W. Hess

Sudeep Vaswani
Thesis: "Surface Modification of Paper and Cellulose Using Plasma-enhanced Chemical Vapor Deposition Employing Fluorocarbon Precursors"
Advisor: Dr. Dennis W. Hess

Doctor of Philosophy
Civil Engineering

Malek Moh'd Abu-Rumman
Thesis: "Conjunctive Management of Surface Water and Groundwater Resources"
Advisor: Dr. Aris P. Georgakakos

Bassem Onsi Andrawes
Thesis: "Siesmic Response and Analysis of Multiple Frame Bridges Using Superelastic Shape Memory Alloys"
Advisor: Dr. Reginald DesRoches

Anne Elizabeth Dunning
Thesis: "Transit for National Parks and Gateway Communities: Impacts and Guidance"
Advisor: Dr. Michael D. Meyer

Ozgur Kurc
Thesis: "A Substructure-based Parallel Solution Framework for Solving Linear Structural Systems with Multiple Loading Conditions"
Advisor: Dr. Kenneth M. Will

Jennifer Harper Ogle
Thesis: "Quantitative Assessment of Driver Speed Behavior Using Instrumented Vehicles"
Advisor: Dr. Karen K. Dixon

Zeynep Bade Sozer
Thesis: "Two-dimensional Characterization of Topographies of Geomaterial Particles and Surfaces"
Advisor: Dr. James D. Frost

Maria Patricia Thaesler-Garibaldi
Thesis: "A Methodology to Develop an Integrated Engineering System to Estimte Quantities for Bridge Repairs at the Pre-design Stage"
Advisor: Dr. Rita A. Oberle

Doctor of Philosophy
Electrical and Computer Engineering

Christopher Vincent Alvino
Thesis: "Multiscale Active Control Methods in Computer Vision with Applications in Tomography"
Advisor: Dr. Anthony Yezzi

Volkan Cevher
Thesis: "A Bayesian Framework for Target Tracking Using Acoustic and Image Measurements"
Advisor: Dr. James H. McClellan

Ravi Chawla
Thesis: "Power Efficient Analog Systems to Perform Signal Processing using Floating-gate MOS Device for Portable Applications"
Advisor: Dr. Paul E. Hasler

Elizabeth Chesnutt
Thesis: "Novel Turbo Equalization Methods for the Magnetic Recording Channel"
Advisor: Dr. John R. Barry

Yuvraj Singh Dhillon
Thesis: "Hierarchical Optimization of Digital CMOS Circuits for Power, Performance, and Reliability"
Advisor: Dr. Abhijit Chatterjee

Abdulkadir Utku Diril
Thesis: "Circuit-level Techniques for Power and Reliability Optimization of CMOS Logic"
Advisor: Dr. Abhijit Chatterjee

Thayne Lowell Edwards
Thesis: "Microfabricated Acoustic and Thermal Field-flow Fractionation Systems"
Advisor: Dr. Albert B. Frazier

Majid Fozunbal
Thesis: "Coding and Information Theoretic Aspects of Multiple Antenna Communication Systems"
Advisor: Dr. Ronald W. Schafer

Ana Elisa P. Goulart
Thesis: "Signaling Architectures for the Interaction of the Session Initiation Protocol and Quality of Service for Internet Multimedia Applications"
Advisor: Dr. Randal T. Abler

Mark S. Hooper
Thesis: "Submicron CMOS Programmable Analog Floating-gate Circuits and Arrays Using DC-DC Converters"
Advisor: Dr. Paul E. Hasler

Xianghui Huang
Thesis: "Diagnostics of Air Gap Eccentricity in Closed-loop Drive-connected Induction Motors"
Advisor: Dr. Thomas G. Habetler

Jongmyon Kim
Thesis: "Architectural Enhancements for Color Image and Video Processing on Embedded Systems"
Advisor: Dr. Donald S. Wills

Taehyun Kim
Thesis: "Scalable Video Streaming over the Internet"
Advisor: Dr. Mostafa H. Ammar

Venkatesh Krishnan
Thesis: "A Framework for Low Bit-rate Speech Coding in Noisy Environment"
Advisor: Dr. David V. Anderson

Matthew Edmund Lee
Thesis: "Acoustic Models for the Analysis and Synthesis of the Singing Voice"
Advisor: Dr. Mark A. Clements

Qingqing Liang
Thesis: "Systematic Analysis and Optimization of Broadband Noise and Linearity in Silicon Germanium Heterojunction Bipolar Transistors"
Advisor: Dr. John D. Cressler

Moonkyun Maeng
Thesis: "Combined Digital/Wireless Link over the Multi-mode Fiber with VCSEL Using CMOS-based Feedforward Equalizer"
Advisor: Dr. Joy Laskar

Priscilla Naseem Mohammed
Thesis: "Laboratory Measurements of the Millimeter Wavelength Opacity of Phosphine (PH3) and Ammonia (NH3) under Simulated Conditions for the Cassini-Saturn Encounter"
Advisor: Dr. Paul G. Steffes

Carole Claudette Montarou
Thesis: "Low-level Birefringence Measurement Methods Applied to the Characterization of Optical Fibers and Interconnects"
Advisor: Dr. Thomas K. Gaylord

Steven Paul Nugent
Thesis: "A Second-generation Generic Systems Simulator (GENESYS) for a Gigascale System-on-a-Chip (SoC)"
Advisor: Dr. James D. Meindl

Kaveh Shakeri
Thesis: "Power Distribution in Gigascale Integration (GSI)"
Advisor: Dr. James D. Meindl

Nuttapong Srirattana
Thesis: "High-efficiency Linear RF Power Amplifiers Development"
Advisor: Dr. Phillip E. Allen

Yudong Tan
Thesis: "Cache Design and Timing Analysis for Preemptive Multi-tasking Real-time Uniprocessor Systems"
Advisor: Dr. Vincent J. Mooney

Wangmyong Woo
Thesis: "Hybrid Digital/RF Envelope Predistortion Linearization for High-power Amplifiers in Wireless Communication Systems"
Advisor: Dr. James S. Kenney

HeeJong Yoo
Thesis: "Low-power Audio Input Enhancements for Portable Devices"
Advisor: Dr. David V. Anderson

Guangfan Zhang
Thesis: "Optimum Sensor Localization/ Selection in a Diagnostic/Prognostic Architecture"
Advisor: Dr. George Vachtsevanos

Yingchuan Zhang
Thesis: "Product Quality Modeling and Control Based on Vision Inspection with an Application to Baking Processes"
Advisor: Dr. Bonnie S. Heck

Doctor of Philosophy
Nuclear and Radiological Engineering

Dingkang Zhang
Thesis: "Neutral Particle Transport in Plasma Edge Using Transmission/Escape Probability (TEP) Method"
Advisor: Dr. Weston M. Stacey

Doctor of Philosophy
Mechanical Engineering

Matthew Scott Allen
Thesis: "Global and Multi-input-Multi-output Extensions to the Algorithm of Mode Isolation"
Advisor: Dr. Jerry H. Ginsberg

Erika A. Ooten Biediger
Thesis: "Vibration Reduction Using Command Generation in Formation Flying Satellites"
Advisor: Dr. William E. Singhose

Jian Ding
Thesis: "Fast Boundary Element Method Solutions for Three-dimensional, Large-scale Problems"
Advisor: Dr. Wenjing Ye

Samuel Glen Durbin II
Thesis: "Dynamics and Free-surface Geometry of Turbulent Liquid Sheets"
Advisor: Dr. Minami Yoda

Tracie L. Durbin
Thesis: "Modeling Dissolution in Aluminum Alloys"
Advisor: Dr. G. P. Neitzel

Dathan Shane Erdahl
Thesis: "Microelectronic Device Inspection System Implementation and Modeling for Flip Chips and Multi-layer Ceramic Capacitors"
Advisor: Dr. Ifeanyi C. Ume

Mark Horner Holdhusen
Thesis: "The State-switched Absorber Used for Vibration Control of Continuous Systems"
Advisor: Dr. Kenneth A. Cunefare

Ryan William Johnson
Thesis: "Process Development for the Manufacture of an Integrated Dispenser Cathode Assembly Using Laser Chemical Vapor Deposition"
Advisor: Dr. W. J. Lackey

Nathaniel Ray Morgan
Thesis: "A New Liquid-Vapor Phase Transition Technique for the Level Set Method"
Advisor: Dr. Marc K. Smith

Gregorio Roberto Murtagian
Thesis: "Surface Integrity on Grinding of Gamma Titanium Aluminide Intermetallic Compounds"
Advisor: Dr. Steven Danyluk

Sum Huan Ng
Thesis: "Measurement and Modeling of Fluid Pressures in Chemical Mechanical Polishing"
Advisor: Dr. Steven Danyluk

Michael James Robertson
Thesis: "Command Generation for Tethered Satellite Systems"
Advisor: Dr. William E. Singhose

Philippe Sucosky
Thesis: "Flow Characterization and Modeling of Cartilage Development in a Spinner-flask Bioreactor"
Advisor: Dr. G. P. Neitzel

Lawrence Joseph Tognetti
Thesis: "Improved Design and Performance of Haptic Two-port Networks"
Advisor: Dr. Wayne J. Book

Master's Degree Recipients

Master of Science

Mohamed Abdelfattah Ismael Abdelhafez
Electrical and Computer Engineering

Sena Ameko Apewokin
Mechanical Engineering

John Eric Atwood
Environmental Engineering

David Paul Aucoin Jr.
Civil Engineering

Benjamin D. Bellows
Aerospace Engineering

Demet Bezmez
Management

Joy Danielle Brathwaite
Economics

Evan Charles Caylor
Management

Edwin C. Centeno-Jimenez
Environmental Engineering

Uttam Kumar Chakravarty
Aerospace Engineering

Paul-Antoine Maurice Chartrain
Management

Chorng-Yow Chen
Aerospace Engineering

Zesheng Chen
Electrical and Computer Engineering

Jeffrey John Cissell
Aerospace Engineering

Christelle Marie Cuenin
Management

David Alexander D'Onofrio
Earth and Atmospheric Sciences

Etienne Jean Dufour
Mechanical Engineering

Sean Wesley Fankhauser
Earth and Atmospheric Sciences

Jonathan Thomas Fornuff
Aerospace Engineering

Marcio Fuzeto Gameiro
Electrical and Computer Engineering

Nicolas Pierre Giel
Management

Tomohiro Higaki
Aerospace Engineering

Carissa Dawn Howard
Earth and Atmospheric Sciences

Mark Richard Hunkele
Aerospace Engineering

Swati Jain
Electrical and Computer Engineering

Ole Christian Jakobsen
Aerospace Engineering

Jun Jian
Earth and Atmospheric Sciences

Chandra Mohan Kankanala
Aerospace Engineering

Ikroop Kaur
Civil Engineering

Kristin Maureen Kelly
Aerospace Engineering

Dong Keon Kim
Civil Engineering

Benjamin J. King
Materials Science and Engineering

Yongjae Lee
Architecture

Ana Isabel Martin
Civil Engineering

Julien Metz
Management

Michael Michaux
Economics

Abhilasha Mittal
Electrical and Computer Engineering

Amit Mohan
Electrical and Computer Engineering

Gwangseok Na
Civil Engineering

Nisarga Niranjan Naik
Electrical and Computer Engineering

Kenta Nakayashiki
Electrical and Computer Engineering

John Dewey Nelson
Environmental Engineering

Richard Edward Otero
Aerospace Engineering

Bevin George Perumana
Electrical and Computer Engineering

Arup Polley
Electrical and Computer Engineering

Ragini Potluri
Aerospace Engineering

Joan Puig
Aerospace Engineering

Mina Raieszadeh
Electrical and Computer Engineering

Dawn Marie Reinhold
Environmental Engineering

Saikat Sarkar
Electrical and Computer Engineering

H. Keifsen Schleifer
Architecture

Michael Patrick Schoenfeld
Aerospace Engineering

Thomas Martin Schweizer
Electrical and Computer Engineering

John Vinod Sebastian
Aerospace Engineering

Deepak Chandra Sekar
Electrical and Computer Engineering

Rosa Sohn
Environmental Engineering

Agnivesh Tomar
Mechanical Engineering

Becky Sue Upchurch
Electrical and Computer Engineering

Aravind Velayutham
Electrical and Computer Engineering

Badri N. Vellambi-Ravisankar
Electrical and Computer Engineering

Katherine Signs Wade
Environmental Engineering

Latrice Danette Watkins
Architecture

James Matthew White
Electrical and Computer Engineering

Daniel Reff Zentner
Aerospace Engineering

Master of Science in Paper Science Engineering

Ryan J. Coda
Enrique Michel-Sanchez

Master of Science in Quantitative and Computational Finance

Rohan Kevin D'sa
Yi He
Seyhmus Inci
Raj Ramesh Makhija
Andres Hernan Sercovich
Haibin Sun
Hongbiao Sun
Matthew Scott Whitmore
Jiansheng Wu
Yanwu Yin

Master of Science in Human-Computer Interaction

Parth Pradip Bhawalkar
Gina Marie Calcaterra
Casey Lynn Fiesler
Punit Kumar Gupta
Robert J. Hamburger
Jennifer Nicole Harris
Tzu-Wei J. Hsu
Lee Inman-Farabaugh
Rachel Lee Knickmeyer
Jae Min Lee
SeungYon Lee
David William McColgin
Marcela Christina Musgrove
Amanda Jane Nance
Hemanshu Narsana
Marleigh I. Norton
Olufemi Olumoko
Violeta Ostojic
Kevin Demshok Stamper

Master of Science in Bioengineering

William Boatin
Weimin Feng
Crystal Marie Gilpin
Shevon Elizabeth Johnson
Veerdhaval Vijay Mahajan
Mamta Jashvantlal Patel
Dennis Dam Soerensen
Daniel R. Sommers

Master of Science in Information Security

Sandhya Balakrishnan
Joseph Thomas Benin
Duc Quang Ngo
John Michael Richardson
Abhishek Singh
Alan S. Tu
Ryan Andrew Wakeham
Fan Yang

Master of Science in Computer Science

Daniel Lee Ashbrook
Gavin M. Bell
Xuehai Bian
Victor Bigio
Zhongtang Cai
Gaurav Chanda
Subramanyam B. Chitti
Yang Chu
Ryan Scott Collins
Jagrut Durdant Dave
Akshay Dayal
Eric Russell Dodson
Robert Alan Foster
Johny Franslay
Ram Kumar Gandhapuneni
Lamar Michael Gardere
Christina Marie Gardner
Ankur Gupta
John William Hable
Abrar Ul Haque
Seyed Hamed Hashemi
David Byron Hilley
Chad Marcus Huneycutt
Byungmoon Kim
Dong-Shin Kim
Mohamed Kone
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Feng Li
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Amy Yun-Jou Lin
Collin Jethro Lobb
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David Charles Minnen
Kevin James Morris
Sharvari Nerurkar
Ahren Thomas Noga
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Henry Louis Pak
Christopher Joseph Parnin
Borna Safabakhsh
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Jesse Shieh
Sowmya Shriraghavan
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Aarjav Jyotindra Trivedi
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Tracy Lee Westeyn
Jason Maurice Williams
Chenyu Yan
Pei Yin
Yi Zhang
Zhen Hao Zhou
Ziru Zhu

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Charles Hogan Brewton
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Jamal Lateef Henry
Iryna Ivashchuk
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Nikhil Vasant Kulkarni
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Engin Erdogan
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Karyn Yiwen Lu
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Mayhew Campbell Seavey
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Stephen Jeffrey Weese

Master of Science in History and Sociology of Technology and Science

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Master of Science in Public Policy

Alan William Bakowski
Brecca Lorene Berman
Lisa Marie Brown
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Margaret Ann Powell Herston
Min Jin
Farah Asem Kashlan
Euiseok Kim
Lemuella Chuku-Nwellun Logan
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Jonathan Wesley McGee
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Seung Han Ro
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Jared Heath Bussey
Grant John Cameron
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Heather Nicole Cook
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Zhya David Jacobs
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Madelaine Rose Mayer
Erika Leigh Morgan
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Master of City and Regional Planning

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Colin Michael Cortes
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Jared M. Lombard
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Robert Thomas McCulloch
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William Shannon Sams
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Betts Simmons Slingluff III
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Margaret Helen Stallings
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Gaurav Chawla
Hao Chen
Raymond Cirone
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Hovey Slayton Dabney III
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Erik Wesley Hall
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Shannon Connery Hook
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Huijing Jiang
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Jose Miguel Quesada-Perez
Jin Shi
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Ramakrishna Thiruveedhi

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Christopher Lawrence Ballard
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Wilson Ken Clemons
Nupur Ravindra Dave
Juliana Andrea Davila-Suarez
Matthew John Drake
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Sebastian Kleinau
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Shengli Qiu
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Luke Stalder Colby
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Yoko Watanabe
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Udita Satish Adurkar
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Rupak Das
Teag Richard Haughan
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Nitesh Kumbhat
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Michael Robert Middlemas
Helene Sylvia Rick
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Laura Tegethoff Schoenbeck
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Akua Asabea Asa-Awuku
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Giovanna Elizabeth Morris
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Kellie Susanne Sak
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Sheng-Te Tsai

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Ishwar Agarwal
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Qaiser Shehzad Awan
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Paul Henri Charles Baize
Robert John Baxley
Joseph Thomas Benin
Milind Anil Borkar
Alexandre Bosselin
Yannick Boye
Vincent Raymond Braley
Thomas Paul Callis
Alexander Gilman Carver
Jean-Francois Chargois
Irene Dershin Chow
Robert Joseph Cole
Arthur Denis Paul Cottrel
Alaric Rionne Craig
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Miguel Angel Lopez
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Olivier Moyal
Mustayeen Billah Nayeem
Lucas Osorio
Samir Bruno Ou-Halima
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Arnaud Portalier
Mustansir Moiz Pratapgarhwala
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Mahboob Ahsan Quadri
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Ryan Wayne Robucci
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Elisabeth Rotrou
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Ranit Windlass
David Thomas Wooden

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Ian Spencer Harrison
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Thomas Arthur Holst
Supat Ieamsupapong
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Jonathan Michael Morris
Michael Christopher Muir
Glynn Newby
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Nurudeen Oladipupo Olayiwola
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Di Song
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David Randolph Spracher
Brian Keith Stewart
David M. Stobbe
Stephen John Terrell
Sten-Ove Tullberg
Kyle Grant Webber
Carrell Elizabeth Weeks
Wesley Bryant Williams
Scott E. Wilson
Tanya Lynn Wright
Inho Yoon

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College of Computing

Bachelor of Science in Computer Science

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Jeffrey Streetman Boyles
Benjamin Bernhard Collins
Neil Brandon Cutshaw
Dustin Scott Embrey
Rebecca L. Fink
Jason Tucker Fletcher
Gregory Christopher Garrett
Prashant Gulati
Soe Sann Htet
Priyanka Karan
Kristopher James Kemper
Erik Alan Kline
Alexander Fei Tak Knowles
Neeraj Kumar
Kyle William Mahan
Nishant Ajay Mehta
Michael Natkovich
Dung Quang Nguyen
Nirmal J. Patel
Sulabh Dilip Patel
Martin J. Robinson
Salil Sethi
Branden Nathaniel Smith
Nguyen Le Truong
Aris Vlasakakis
Matthew James Wren
Ye Yan

High Honor
Ji Han Bae
Peter Lloyd Balderston
Sujoy Banerjee
Clinton Patrick Carnahan
Michael Shiken Chen
Daniel Charles Duke
Kayre Michelle Hylton
Keith Ka Makani Manning
Jason Dilip Parekh
Andrew Thomas Pilsch
Bryan Shaun Rink
Naomi Ann Roberts
Alexander James Rudnick
Spence Wesley Tyner
Christopher Michael Vincent
Mark Addison Winham

Honor
David John Browning Jr.
Zachary Thomas Crowell
Kyle S. Goodwin
Anne Rouse Gurley
Hyuk Myung Ji
Christopher Lee Limbacher
John Louis Lyon
Michael Laurence Meisner
Nathan J. Owens
Jeffrey Michael Shaffer
Szymon Swistun
Taylor Chamberlin Woll

Brian Douglas Adle
Arnond Anantachai
Ali Reza Bahmanyar
Bryan Clayton Billings
Nick Black
Andrew Robert Campbell
Brad Alan Carroll
Adam Anthony Chamely
Vincent Philip Chan
George Chang
William Key Clarke
Jeremy R. Clements
James David Courtoy
Ryan Albert Cramer
William Thomas Culpepper
Robert William Davis
Brandon Robert Dement
Timothy Paul Dorr
Caleb Alexandre Drake
Brett Alan Flury
Brian Michael Gorby
Boris Goykhman
Robert Brian Graham
Paul Michael Guidice
Michael John Gurley
Raymond Christopher Hamilton
Matthew Hayes Higgins
William Matthew Hoffman
Justin Scott Holzer
Joey Chaoyu Hwang
Kevin Anderson Juang
Leslie-Anne Kubilius
Daniel S. Lee
Matthew Price Lindsey
Erich James Luedtke
Trevor Jarrod Mann
Angel Rafael Marrero
Bryan Richard Massey
Jordan Irving McKible
Luigi Montanez
Christopher Daniel Navo
Ronald K. Ning
Nathan Edward Padgett
Noah Christopher Rawlins
Kirk Edward Roberts
Jeffrey Walter Rosellen
Byron Cagle Salazar
Eric Wayne Savage
Akash Deepak Shah
Darrell Landon Sparks
Brandon Stoneham Stepler
Joseph Adam Streeky
James Edward Stremick II
Kelly Marie Tabler
Takehiro Takahashi
Trenton Alan Taylor
Chelsea Anne Thompson
Jeremy Caleb Townsend
Sunil K. Venkataram
William Daniel Walls
Charles Joseph Whittington
Dan McClintic Williams
Darren Bryant Wilson
In Jae Yi

Bachelor of Science in Computer Science
Cooperative Plan

Highest Honor
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Jerry Del Gaudio
Michael Grosse Huelsewiesche
Hemal Hemant Shah
Puja Rani Verma
Amanda Marie Zielonka

High Honor
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Ankeet Patel
Troy Council Riberon III
David Reed Wharton Jr.

Honor
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Alexander C. Peterson
Ian McLarty Turner

Nebo Jacob Abraham
Samuel Worth Charles
Timothy Jerome Hardcastle

Jason Michael Hurley
Michael James Maisano
Joel Aaron Miller
John William Scaduto
Travis Lee Thatcher
Edward Leoncito Villanueva

Ivan Allen College

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Timothy Lee Atkins
Alexander Crowley Brunk
Aaron Edward Rader
David Daniel Rottmann

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Catherine Mary Hammer

Honor
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Erin Lynne Donohoe
Peter W. Janoe
Benjamin L. Messer
Kunal Ashok Patel
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Bachelor of Science in Science, Technology, and Culture

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Nnenna Lynn Okeke
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High Honor
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Honor
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Megan Marie Morris
Kalani Elisabeth Reel
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Bachelor of Science in Science, Technology, and Culture
Cooperative Plan

William McCoy Wright

Bachelor of Science in International Affairs and Modern Language

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Jennifer Marie Tucker
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Kristen Lee Harrison
Megan M. Salomone
Miki Anne Tornabene

Honor
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Teresa Jo Richards
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Kathryn Leigh Grant
Joseph Parker Huntemann
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High Honor
Meaghan Sarah Bayer
Lisa Diane Cutting
Seeta Lakshmi Surapu
Melissa Joy Wallace

Honor
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Amy Hang-Nguyet Phuong
William Robinson

Tarun Chaudhary
Bob Hung-Wei Cheng
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Matthew Glover Gray
Nida Hasan
Shabih Zehra Hasnain
Jason Wayne Heasley
Jimmy Eduardo Hernandez
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Tracie Diane Watts
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Bachelor of Science in International Affairs
Cooperative Plan

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Bachelor of Science in Global Economics and Modern Languages

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Bachelor of Science in Economics

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Honor
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Michael Lee Handelman
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Jeorry Scolman Balasabas
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Bachelor of Science

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Jihan Patrice Stanford
Maria Aphrodite Tiliakos

High Honor
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Armando Villegas Mata
Rolando Rodriguez
Joel Abram Rose

Honor
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Justin O'Neal Miller
Kevin Ray Murphy
Elizabeth Jean Pedersen
Stuart John Rees
Imelda Rose Turner
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Stella Fleshler
Mariapilar Gonzalez
Alissa Corinne Hammontree
Suzanne Michelle Hearn
Kacey Joy Huntington
Alyson Anne Laura
Evan Patrick Levelle
Timothy Dennis Maher
David John Moody
Sean Patrick Murphy
Sarah Elizabeth Roland
John Brandon Sieg
Rebecca Leigh Underwood
Vivian Vakili

Bachelor of Science in Building Construction

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Katherine Nell Davis
Erik Wayne Kandler
Stephen George Stephenson
Tahirah Wilson

High Honor
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Wei-Lin Sun

Honor
Khalil Umer Abubeker
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Krista Ann Hollingsworth
Bradley Louis Kramer
Charles Edward Justin McKinney
Brian Alexander Newhouse

Stephanie Marie Brunone
Olivia Kay Evans
Erik Nicholas Johnson
Jacynth Ashley King
Matthew Michael McHale
Jennifer Bayless Moore
Arthur Francis Moretti
Ryan Lee Overall
Robert Shaw Overstreet
Adam Hisao Wilson

Bachelor of Science in Building Construction
Cooperative Plan

Highest Honor
Craig Phillip Bracken

Bachelor of Science in Industrial Design

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Megan Patricia Cahill
Clay Martin Gienger
Holly Leigh Huff
Angela Joy Muhlberger
Julia Elizabeth Page
Katherine Ann Stanchak
Rachel Anne Winderweedle

High Honor
Sarah Cathlin DeLong
Micah Justin McLain
Melanie Leigh Murray
Kurt Russell Rampton
Robert Andrew Roe

Honor
Wesley Tillman Barker
Kandis Melinda Barnett
Amber Katrina Charles
Phuoc Dinh Dang
John Patrick Maley
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Holly Kay Lewis
Hugh David Josef Malkin
Joshua Dale Mathieson
Joseph Paul McMillion
Rodney Rashard Miller
Daniel John Muxie
Minhyun Noh
Erik Marshall Norrell
Ekene Uzoma Okpareke
Divesh Patel
William Craig Pope
Robert James Pyle
Jonathan Gerald Rehbein
Michael Garrett Reno
Amandi Jendayi Rhett
Patrice Ashley Robinson-Davis
Tammeca Samantha Rochester
Mell Tex Sammons
Theo Martin Sanchez
Phillip Lane Sheppard

Tyler Andrew Smith
Scott David Spencer
J. T. Stukes
Robert David Swafford Jr.
Joshua Aaron Tarbutton
Jack Robert Vasko
Angelyn Brooke Waddell
Andrea Lartrice Warren
Byron Lekeith Williams
Eric David Williamson
Christopher Paul Wooldridge
Amanda Lyn Word
Kevin Matthew Zich
Adam Joseph Zurawski

Bachelor of Science in Mechanical Engineering
Cooperative Plan

Highest Honor
Stephanie Jean Campbell
Michael Damianakis
Brian Jacob Fatkin
Mark Elliott Jackson
Johanna Chuang-meiyu Kauffman
Ryan Andrew Lacy
Michael Patrick Francis McKeon
Adam Brian Reich
Andrew Benjamin Scott
Varun Sharma
Alice Egan Snedeker
Benjamin James Spivey

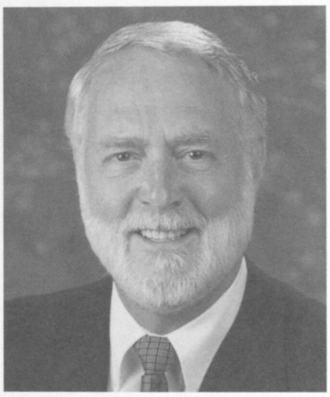
High Honor
Jessica Sheri Hailperin
Michael Kirk Huffines
Kyle Patrick Moore
Megan Anne Preble

Honor
Kelvin Chiu-hun Chow
Peter Joseph Johnson
Joshua Eric League
Thomas Andrew Padgett Jr.
Charles Allan Quaife
Theresa Melba Sheldon
Jacob Thomas Townson
Aaron Patrick Turcott

Amanda Cheryl Askew
Thomas Roger Busbee
Brannen Clark Butts
John Daniel Cassidy Jr.
Leandro Rafael de la Torriente
Kip Christopher Drexler
Cleveland Lewis Fann
Brad Allen Lawrence
Derrick Hokhim Ma
Kimberly Marie Pemberton
Bennett J. D. Peterson
Corresha Nicole Thomas

President G. Wayne Clough, Ph.D.
Georgia Institute of Technology

In September 1994, Dr. G. Wayne Clough became the tenth president of the Georgia Institute of Technology and the first alumnus to serve as president. Dr. Clough received his B.S. and M.S. 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 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; university co-vice chairman, 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). Dr. Clough 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.

Commencement Speaker
Secretary of Energy Samuel W. Bodman

Samuel Wright Bodman was sworn in as the eleventh secretary of energy on February 1, 2005, after the United States Senate unanimously confirmed him. He leads the Department of Energy with a budget in excess of $23 billion and more than 100,000 federal and contract employees.

Previously, Secretary Bodman served as deputy secretary of the Treasury beginning in February 2004. He also served the Bush Administration as the deputy secretary of the Department of Commerce beginning in 2001. A financier and executive by trade, with three decades of experience in the private sector, Bodman was well suited to manage the day-to-day operations of both of these cabinet agencies.

Born in 1938 in Chicago, he graduated in 1961 with a Bachelor of Science in chemical engineering from Cornell University. In 1965, he completed his doctorate at the Massachusetts Institute of Technology (MIT). For the next six years, he served as an associate professor of chemical engineering at MIT and began his work in the financial sector as technical director of the American Research and Development Corporation, a pioneer venture capital firm. He and his colleagues provided financial and managerial support to scores of new business enterprises located throughout the United States.

From there, Bodman went to Fidelity Venture Associates, a division of Fidelity Investments. In 1983, he was named president and chief operating officer of Fidelity Investments and a director of the Fidelity Group of Mutual Funds. In 1987, he joined Cabot Corporation, a Boston-based Fortune 300 company with global business activities in specialty chemicals and materials, where he served as chairman, CEO, and a director. Over the years, he has been a director of many other publicly owned corporations.

Bodman has also been active in public service. He is former director of MIT's School of Engineering Practice and a former member of the MIT Commission on Education. He also served as a member of the Executive and Investment Committees at MIT, a member of the American Academy of Arts and Sciences, and a Trustee of the Isabella Stewart Gardner Museum and the New England Aquarium.

Bodman is married to M. Diane Bodman. They have three children, two stepchildren, and eight grandchildren.

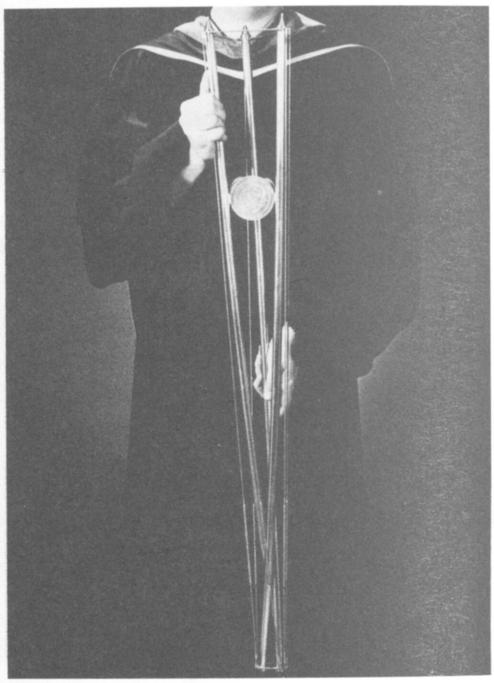
The Mace

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

The Georgia Tech mace carried in today's ceremony was designed by Cabell Heyward, a former research scientist in the College of Architecture, and was first used in April 1988 at the presidential 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.

Georgia Tech's Colleges and Traditions

College of Computing

The College of Computing houses one of the largest interdisciplinary computer science programs in the country, forging relationships across campus and with universities around the world. The College provides the highest quality instruction and is dedicated to the integration of computing knowledge into all aspects of life.

The College also has four interdisciplinary research centers: Georgia Tech's Information Security Center (GTISC); the Graphics, Visualization and Usability Center (GVU); Center for Experimental Research in Computer Systems (CERCS); and the Modeling and Simulation Research and Education Center (MSREC).

More than 1,500 students are enrolled in the college, including approximately 1,100 undergraduates and 476 graduate students. Prominent alumni of the College include Craig Mundie (1971, 1972), senior vice president and CTO, Advanced Strategies and Policy, Microsoft; Jim Allchin (1983), platform group vice president, Microsoft; Timothy Saponas (1981), worldwide higher education manager, Intel; James Folsom (1970, 1972), strategic advisor and CEO, Motorola; Edith M. Martin (1976, 1980), chief financial officer, Eastman Kodak; and Githesh Ramamurthy, (1983), president, CCC Information Services.

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 715 undergraduates and 248 graduate students in the fall of 2004.

The College has been an innovative leader in such fields as information and game design, educational technologies, Internet governance, international economics, 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 2004, 736 undergraduate and 352 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 2004-2005.

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 and 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 2004, the College enrolled 974 undergraduate students and 750 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 1993 Nobel Prize recipient in chemistry; 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.

The current dean of the College, Don P. Giddens (1967), earned all three of his degrees at Tech. Other outstanding alumni include Ronald Wayne Allen (1964), former chairman and CEO, Delta Air Lines; C. Garry Betty, (1979), CEO, EarthLink; Mario Canahuati, (1977), Honduran ambassador to the United States; former President Jimmy Carter (1946); Michael T. Duke, (1971), president and CEO, Wal-Mart USA; Thomas L. Gossage, (1957), former chairman, president, and CEO, Hercules Inc.; Major Gen. Ronald Johnson (1985), U.S. Army Corps of Engineers; James R. Jolly Jr. (1964), chairman and CEO, Johnson and Johnson Industries Inc.; Sandra H. Mangus, (1996), astronaut, NASA Shuttle Atlantis; Robert B. Ormsby (1945), president, Lockheed Corporation-Aeronautical Systems Group; David A. Perdue, (1972, 1976), chairman and CEO, Dollar General; Agustin A. "Gus" Ramirez, (1968, 1969), chairman, president, and CEO, Husco International Inc.; and Malcolm T. Stamper (1946), vice chairman of the Board, Boeing Company.

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 conducts groundbreaking research, educational programs, and economic development initiatives that advance the global competitiveness and security of Georgia, the region, and the nation.

The GTRI team includes many of the nation's leading researchers, who spend each day helping make the world a better, safer place.

GTRI's approximately 1,200 employees perform or support more than $130 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 work promotes Georgia's industrial and economic development; encourages development of Georgia's natural resources; and supports national programs of science, technology, emergency preparedness, national defense, and homeland security.

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.

Academic Regalia

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

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

Announcers
Dr. William Johnson, Dr. Frank Pilipp, and
Dr. David Shook
Graduate Studies
Maureen Kilroy
Institute Communications and Public Affairs
Aimee Anderson and staff
Music Department
Frank Clark, Christine Marks, Ron Mendola,
and Jerry Ulrich
Plant Operations
Staging staff
Registrar's Office
Candy Carson, Ann Laros, Jo McIver, April Pope,
Deanna Stearns, Debbie Williamson, Craig Womack,
and staff
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.