

# Commencement Ceremony



**Georgia Institute  
of Technology**

*spring 2006*



*Welcome to the 224th 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 2,200 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 6, 2006 • 9:00 A.M.*  
*Georgia Dome* \_\_\_\_\_

PROCESSIONAL

*Georgia Tech Commencement Ensemble,  
coordinated by Dr. Frank Clark,  
Department of Music*

MASTER OF CEREMONIES

*Dr. G. Wayne Clough, President*

REFLECTION

*Rev. Megan J. Jones,  
Lutheran Center at Georgia Tech*

NATIONAL ANTHEM

*Georgia Tech Commencement Ensemble*

COMMENCEMENT  
ADDRESS

*Mr. Bernard Marcus  
The Marcus Foundation Inc.*

PRESENTATION OF  
DOCTORAL DEGREE  
CANDIDATES

*Dr. Anderson Smith  
Vice Provost, Undergraduate Studies  
and Academic Affairs*

CONFERRING OF DEGREES

*Dr. Clough*

PRESENTATION OF  
MASTER'S DEGREE  
CANDIDATES

*Dr. Smith*

CONFERRING OF DEGREES

*Dr. Clough*

INTRODUCTION OF  
ACADEMIC DEANS

*Dr. Smith*

PRESENTATION OF  
UNDERGRADUATE  
DEGREE CANDIDATES

*Associate Dean Merrick L. Furst  
College of Computing  
Dean Sue V. Rosser  
Ivan Allen College of Liberal Arts  
Dean Thomas D. Galloway  
College of Architecture  
Dean Terry C. Blum  
College of Management  
Associate Dean Evans M. Harrell II  
College of Sciences  
Dean Don P. Giddens  
College of Engineering*

CONFERRING OF DEGREES

*Dr. Clough*

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COMMISSION RECOGNITION  
CEREMONY

Col. Terrance McCarthy,  
Air Force ROTC

INDUCTION INTO THE  
ALUMNI ASSOCIATION

Mr. J. William Goodhew III,  
Class of 1961,  
Chairman, Georgia Tech  
Alumni Association

ALMA MATER\*

Georgia Tech Commencement Ensemble

FACULTY RECESSIONAL

Georgia Tech Commencement Ensemble

"RAMBLIN' WRECK" \*

Graduates and Audience

*The listing of bachelor's degree graduates begins on page 18.*

*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.*

*\*Please turn to page 39 for song lyrics.*





# Doctoral Degree Candidates

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## **Doctor of Philosophy Bioinformatics**

*Ryan Edward Mills*

Thesis: "New Ab Initio  
Methods of Small Genome  
Sequence Interpretation"  
Advisor: Dr. Mark Borodovsky

## **Doctor of Philosophy Paper Science Engineering**

*Aaron Jerry Jacobson*

Thesis: "Diffusion of Chemicals  
into Green Wood"  
Advisor: Dr. Sujit Banerjee

## **Doctor of Philosophy Bioengineering**

*Ann Elizabeth Ensley*

Thesis: "Functional Evaluation of  
Circulating Endothelial Progenitor  
Cells for Vascular Tissue Engineering"  
Advisor: Dr. Robert M. Nerem

*Sankararaman Suryanarayanan*

Thesis: "Design, Development, and  
Characterization of a Prototype  
Digital Mammography System"  
Advisor: Dr. Andrew Karellas

## **Doctor of Philosophy Biomedical Engineering/ Joint Degree Program**

*Tiffany Lynn Johnson*

Thesis: "Endothelial Cell Function  
Using a Tissue-engineered Blood  
Vessel Model: A Case Study of Cell-  
Cell Communication"  
Advisor: Dr. Robert M. Nerem

## **Doctor of Philosophy Algorithms, Combinatorics, and Optimizations**

*Rajneesh Dattatray Hegde*

Thesis: "New Tools and Results in  
Graph Structure"  
Advisor: Dr. Robin Thomas

## **Doctor of Philosophy Computer Science**

*Gregory John Conti*

Thesis: "Countering Network-level  
Denial of Information Attacks Using  
Information Visualization"  
Advisor: Dr. Mustaque Ahamad

*Christos Gkantsidis*

Thesis: "Algorithmic Performance of  
Large-scale Distributed Networks:  
A Spectral Method Approach"  
Advisor: Dr. Kolomira-Elini Mihail

*Elaine May Huang*

Thesis: "The Design and Analysis of  
Large Display Groupware  
Applications"  
Advisor: Dr. Elizabeth D. Mynatt

*James Michael Hudson*

Thesis: "The Role of Chatrooms in  
Facilitating Learning Behaviors in  
Small Group Discussions"  
Advisor: Dr. Amy S. Bruckman

*Giovanni Iachello*

Thesis: "Privacy and Proportionality"  
Advisor: Dr. Gregory D. Abowd

*Jakita Nicole Owensby*

Thesis: "Exploring the Development  
of Case Use Skills in Middle School  
Project-based Inquiry Classrooms"  
Advisor: Dr. Janet L. Kolodner

*Donghua Xu*

Thesis: "Scalability and  
Composability Techniques for  
Network Simulation"  
Advisor: Dr. Mostafa H. Ammar

## **Doctor of Philosophy Public Policy/Joint Degree Program**

*Zhenhua Hu*

Thesis: "Two Essays on Corporate  
Income Taxes and Organizational  
Forms in the United States"  
Advisor: Dr. Gregory B. Lewis

*John William Matthews*

Thesis: "The Effect of Proximity to  
Commercial Uses on Residential  
Prices"  
Advisor: Dr. Geoffrey K. Turnbull

## **Doctor of Philosophy History and Sociology of Technology and Science**

*Timothy Harold Browne Stoneman*

Thesis: "Capturing Believers:  
International Radio, Religion, and  
Reception, 1931-1970"  
Advisor: Dr. Gerhard Krige

## **Doctor of Philosophy Architecture**

*Saleem Mokbel Dahabreh*

Thesis: "The Formulations of Design:  
The Islip Courthouse by  
Richard Meir"  
Advisor: Dr. John Peponis

*Anjali Joseph*

Thesis: "Where Older People Walk:  
Assessing the Relationship between  
Physical Environmental Factors and  
Walking Behavior of Older Adults"  
Advisor: Dr. Craig M. Zimring

*Amirali Shakoorian*

Thesis: "Performance Assessment of Building Commissioning Process as a Quality Control System"

Advisor: Dr. Saeid Lonbani Sadri

*Ermal Shpuza*

Thesis: "Floorplate Shapes and Office Layouts: A Model of the Effect of Floorplate Shape on Circulation Integration"

Advisor: Dr. John Peponis

## **Doctor of Philosophy Earth and Atmospheric Sciences**

*Kremena Teneva Darменова*

Thesis: "Integrated Spatiotemporal Characterization of Dust Sources and Outbreaks in Central and East Asia"

Advisor: Dr. Irina Sokolik

*Carlos D. Hoyos*

Thesis: "Intraseasonal Variability: Processes, Predictability, and Prospects for Prediction"

Advisor: Dr. Peter J. Webster

*Dennis Patrick Robinson*

Thesis: "Diagnostic Studies of Extratropical Intraseasonal Variability in the Northern Hemisphere"

Advisor: Dr. Robert X. Black

## **Doctor of Philosophy Applied Biology**

*Deron Edward Burkepile*

Thesis: "Separate and Interactive Effects of Consumers and Nutrient Enrichment on the Structure of Benthic Marine Communities"

Advisor: Dr. Mark E. Hay

*Matthew C. Ferner*

Thesis: "Environmental Modification of Chemosensory Interactions between Predators and Prey: The World According to Whelks"

Advisor: Dr. Marc J. Weissburg

*Amanda L. Hollebone*

Thesis: "An Invasive Crab in the South Atlantic Bight: Friend or Foe?"

Advisor: Dr. Mark E. Hay

*Xueguang Sun*

Thesis: "Characterization of *E. coli* Hfq Structure and its RNA Binding Properties"

Advisor: Dr. Roger M. Wartell

*Alan Elliott Wilson*

Thesis: "Cyanobacteria-Grazer Interactions: Consequences of Toxicity, Morphology, and Genetic Diversity"

Advisor: Dr. Mark E. Hay

## **Doctor of Philosophy Mathematics**

*Christel Hohenegger*

Thesis: "Small-scale Stochastic Dynamics for Particle Image Velocimetry Applications"

Advisor: Dr. Peter Mucha

## **Doctor of Philosophy Psychology**

*Timothy A. Nichols*

Thesis: "Explaining Dual-task Implicit Learning Deficits: The Effect of Within Stimulus Presentation"

Advisor: Dr. Arthur D. Fisk

*Julian Sanchez*

Thesis: "Factors That Affect Trust and Reliance on an Automated Aid"

Advisor: Dr. Arthur D. Fisk

*David Ignacio Unsworth*

Thesis: "Individual Differences in Complex Memory Span and Episodic Retrieval"

Advisor: Dr. Randall W. Engle

## **Doctor of Philosophy Physics**

*Matthew Raymond Bennett*

Thesis: "Synchronization and Signal Enhancement in Nonlinear and Stochastic Systems"

Advisor: Dr. Kurt A. Wiesenfeld

*Ming-Shien Chang*

Thesis: "Coherent Spin Dynamics of a Spin-1 Bose-Einstein Condensate"

Advisor: Dr. Michael S. Chapman

*Stephen Edward Lewis*

Thesis: "The Creation of a Viable Porous Silicon Gas Sensor"

Advisor: Dr. James L. Gole

*Jianfei Shao*

Thesis: "STM/STS and BEES Studies of Nanocrystals"

Advisor: Dr. Phillip N. First

*Elena Y. Shchekinova*

Thesis: "Analysis of Multidimensional Phase/Space Hamiltonian Dynamics: Methods and Applications"

Advisor: Dr. Ahmet T. Uzer

## **Doctor of Philosophy Chemistry**

*Selma Bakbak*

Thesis: "Structural Manipulation of Conjugated Polymers"

Advisor: Dr. Uwe H. F. Bunz



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*Joseph Raymond Carlise*

Thesis: "Ploy(Norborone)-supported Side-Chain Coordination Complexes: An Efficient Route to Functionalized Polymers"  
Advisor: Dr. Marcus Weck

*Haiyan Chen*

Thesis: "Probing Defects and Electronic Processes on Gadolinia-doped Ceria Surfaces Using Electron-stimulated Desorption"  
Advisor: Dr. Thomas Orlando

*Yanfeng Chen*

Thesis: "Analysis of Biological Molecules on Surfaces Using Stimulated Desorption Photo-ionization Mass Spectrometry"  
Advisors: Dr. Richard F. Browner and Dr. Thomas Orlando

*SaetByul Debord*

Thesis: "Phase Behavior of Multi-responsive Mircogel Dispersions"  
Advisor: Dr. L. Andrew Lyon

*Jose Ignacio Gonzalez*

Thesis: "Quantum Optoelectronics: Nanoscale Transport in a New Light"  
Advisor: Dr. Robert M. Dickson

*Xiaohua Huang*

Thesis: "Gold Nanoparticles Used in Cancer Cell Diagnostics, Selective Photothermal Therapy, and Catalysis of NADH Oxidation Reaction"  
Advisor: Dr. Mostafa A. El-Sayed

*Michael David Kulis Jr.*

Thesis: "Islet Neogenesis Associated Protein-related Protein: From Fene to Folded Protein"  
Advisor: Dr. Suzanne B. Shuker

*Sandra Leigh Shotwell*

Thesis: "Synthesis and Characterization of Ortho-Phenyleneethynylenes and Diphenylamine Polymers"  
Advisor: Dr. Uwe H. F. Bunz

*Desmond Dion Stubbs*

Thesis: "Development of a Biosensor Based on Acoustic Wave Technology"  
Advisor: Dr. William D. Hunt

## **Doctor of Philosophy**

### **Materials Science and Engineering**

*Erik Kenneth Koep*

Thesis: "A Quantitative Determination of Electrode Kinetics Using Micro-patterned Electrodes"  
Advisor: Dr. Meilin Liu

*Yajun Liu*

Thesis: "The Kinetics of Incongruent Reduction Between Alumina and Mg-Al Melts"  
Advisor: Dr. Kenneth H. Sandhage

*Raymond H. Oh*

Thesis: "Processing of a Hybrid Solid Oxide Fuel Cell Platform"  
Advisor: Dr. Joe K. Cochran

*Ghazal Peydaye Saheli*

Thesis: "Homogenization Relations for Elastic Properties Based on Two-point Statistical Functions"  
Advisors: Dr. Hamid Garmestani and Dr. Arun M. Gokhale

## **Doctor of Philosophy**

### **Industrial Engineering**

*Demet Batur*

Thesis: "Variance Estimation in Steady-state Simulation, Selecting the Best System, and Determining a Set of Feasible Systems via Simulation"  
Advisor: Dr. Seong-Hee Kim

*Daniel G. Espinoza*

Thesis: "Finding Cuts for MIP from Simple Relaxations"  
Advisor: Dr. William J. Cook

*Andrew Luke Johnson*

Thesis: "Methods in Productivity and Efficiency Analysis with Applications to Warehousing"  
Advisor: Dr. Leon F. McGinnis

*Ilya A. Lavrik*

Thesis: "Novel Wavelet-based Statistical Methods with Applications in Classification, Shrinkage, and Nanoscale Image Analysis"  
Advisor: Dr. Branislav Vidakovic

*Idriss Maoui*

Thesis: "Optimal Pricing for a Service Facility with Congestion Penalties"  
Advisor: Dr. Hayriye Ayhan

*Xuelei Ni*

Thesis: "New Results in Detection, Estimation, and Model Selection"  
Advisor: Dr. Xiaoming Huo

*Anuj Pradeep Shah*

Thesis: "Analysis of Transformations to Sociotechnical Systems Using Agent-based Modeling and Simulation"  
Advisor: Dr. Amy R. Pritchett

*Yen-Tai Wan*

Thesis: "Material Transport System Design in Manufacturing"  
Advisor: Dr. Gunter P. Sharp



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*Wuthichai Wongthatsanekorn*  
Thesis: "Strategic Network Growth  
with Recruitment Model"  
Advisors: Dr. Jane C. Ammons  
and Dr. Matthew J. Realff

**Doctor of Philosophy  
Aerospace Engineering**

*Benjamin Davis Bellows*  
Thesis: "Characterization of  
Nonlinear Heat Release:  
Acoustic Interactions in  
a Gas Turbine Combustor"  
Advisor: Dr. Tim C. Lieuwen

*Nicholas Keith Borer*  
Thesis: "Decision-making Strategies  
for Probabilistic Aerospace  
System Design"  
Advisor: Dr. Dimitrios N. Mavris

*Manuj Dhingra*  
Thesis: "Compressor Stability  
Management"  
Advisor: Dr. J. V. R. Prasad

*Balakrishnan Ganesh*  
Thesis: "Unsteady Aerodynamics of  
Rotorcraft at Low Advance Ratios  
in Ground Effect"  
Advisor: Dr. Narayanan M. Komerath

*Tianci Jiang*  
Thesis: "Impact and Penetration  
Studies: Simplified Models and  
Materials Design from Ab  
Initio Methods"  
Advisor: Dr. Sathyanaraya Hanagud

*Satchidanand Anil Kalaver*  
Thesis: "Management of Reference  
Frames in Simulation and Its  
Applications"  
Advisor: Dr. Amy R. Pritchett

*Suraj Nair*  
Thesis: "Acoustic Characterization  
of Flame Blowout Phenomenon"  
Advisor: Dr. Tim C. Lieuwen

*David Michael O'Brien Jr.*  
Thesis: "Analysis of Computational  
Modeling Techniques for Complete  
Rotorcraft Configurations"  
Advisor: Dr. Marilyn R. Jones Smith

*Serkan Ozbay*  
Thesis: "Extension-twist Coupling  
Optimization in Composite  
Rotor Blades"  
Advisor: Dr. Erian A. M. Armanios

*Brian Douglas Ritchie*  
Thesis: "Quantitative Acetone PLIF  
Measurements of Jet Mixing with  
Synthetic Jet Actuators"  
Advisor: Dr. Jerry M. Seitzman

*Muruganandam Mahalingam Thiruchengode*  
Thesis: "Sensing and Dynamics of  
Lean Blowout in a Swirl  
Dump Combustor"  
Advisor: Dr. Jerry M. Seitzman

*Efstathios Velenis*  
Thesis: "Analysis and Control of  
High-speed Wheeled Vehicles"  
Advisor: Dr. Panagiotis Tsiotras

*Sameh Sadarous Wanis*  
Thesis: "Tailored Force Fields for  
Flexible Fabrication"  
Advisor: Dr. Narayanan M. Komerath

**Doctor of Philosophy  
Chemical Engineering**

*Amanda Owings Amos*  
Thesis: "Regulation of Cytokine-  
induced Adhesion Molecule  
Expression and Sickle Erythrocyte  
Adhesion to Microvascular  
Endothelial Cells by Intracellular  
Cyclic AMP and Nitric Oxide"  
Advisor: Dr. Timothy M. Wick

*Anna Marie Fallon*  
Thesis: "The Development of a Novel  
in vitro Flow System to Evaluate  
Platelet Activation and Pro-coagulant  
Potential Induced by Bileaflet  
Mechanical Heart Valve Leakage Jets"  
Advisor: Dr. Ajit Yoganathan

*Patrick Evan Hazlewood*  
Thesis: "Factors Affecting the  
Corrosivity of Pulping Liquors"  
Advisors: Dr. Preet M. Singh  
and Dr. Jeffery S. Hsieh

*Malina Elizabeth Janakat*  
Thesis: "Synergistic Approach to  
Exploration of the Microstructure of  
Novel Tunable Solvents for Reactions,  
Separations, and Catalyst Recycle"  
Advisor: Dr. Charles A. Eckert

*Natalie Brimer Maxey*  
Thesis: "Transport and Phase-transfer  
Catalysis in Gas-expanded Liquids"  
Advisor: Dr. Charles A. Eckert

*Matthew Christian Wagner*  
Thesis: "Histamine as a Potential  
Initiator of Sickle Pain Crisis by  
Mediation of Erythrocyte Adherence  
in a Shear-dependent Manner"  
Advisor: Dr. Timothy M. Wick



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**Doctor of Philosophy  
Environmental Engineering**

*Didem Okutman Tas*

Thesis: "Microbial Reductive Transformation of Pentachloronitrobenzene"

Advisor: Dr. Spyros G. Pavlostathis

**Doctor of Philosophy  
Civil Engineering**

*Ahmed M. Bayoumi*

Thesis: "New Laboratory Test Procedures for the Enhanced Calibration of Constitutive Models"

Advisor: Dr. Juan C. Santamarina

*Seung Oh Lee*

Thesis: "Physical Modeling of Local Scour around Complex Bridge Piers"

Advisor: Dr. Terry W. Sturm

*Quanwang Li*

Thesis: "Mathematical Formulation of Tools for Assessment of Fragility and Vulnerability of Damaged Buildings"

Advisor: Dr. Bruce R. Ellingwood

*Jason Paul McCormick*

Thesis: "Cyclic Behavior of Shape Memory Alloys: Material Characterization and Optimization"

Advisor: Dr. Reginald DesRoches

*Guillermo Andres Narsilio*

Thesis: "Spatial Variability and Terminal Density: Implications in Soil Behavior"

Advisor: Dr. Juan C. Santamarina

*Wonsiri Punurai*

Thesis: "Cement-based Materials Characterization Using Ultrasonic Attenuation"

Advisor: Dr. Laurence J. Jacobs

*Chunyan Wang*

Thesis: "Fatal Crash Trends and Analysis in Southeastern States"

Advisor: Dr. Karen K. Dixon

*Jun Wang*

Thesis: "Operating Speed Models for Low-speed Urban Environments Based on In-Vehicle GPS Data"

Advisor: Dr. Karen K. Dixon

*Ruiting Wu*

Thesis: "Some Fundamental Mechanisms of Hydraulic Fracturing"

Advisor: Dr. Leonid Germanovich

**Doctor of Philosophy  
Electrical and Computer Engineering**

*Kulsoom Benazir Abdullah-Kakakhel*

Thesis: "Scaling and Visualizing Network Data to Facilitate Intrusion Detection Tasks"

Advisor: Dr. John A. Copeland

*Henrik C. R. Axelsson*

Thesis: "Optimal Control of Switched Autonomous Systems: Theory, Algorithms, and Robotic Applications"

Advisor: Dr. Magnus Egerstedt

*Amit Bavisi*

Thesis: "Integrated Multi-mode Oscillators and Filters for Multi-band Radios on Liquid Crystalline Polymer-based Packaging Technology"

Advisor: Dr. Madhavan Swaminathan

*Ning Chen*

Thesis: "Bandwidth Efficiency and Power Efficiency Issues for Wireless Transmissions"

Advisor: Dr. Guotong Zhou

*Jinwoo Choi*

Thesis: "Noise Suppression and Isolation in Mixed-signal Systems Using Alternating Impedance Electromagnetic Bandgap (AI-EBG) Structure"

Advisor: Dr. Madhavan Swaminathan

*Cherita L. Corbett*

Thesis: "Securing Access to Wireless Local Area Networks Using a Passive Approach to Device Identification"

Advisor: Dr. John A. Copeland

*Cenk Demiroglu*

Thesis: "Multi-sensor Segmentation-based Noise Suppression for Intelligibility Improvement in MELP Coders"

Advisor: Dr. David V. Anderson

*Mongkol Ekpanyapong*

Thesis: "Performance-driven Physical Planning for Deep Submicron Technology"

Advisor: Dr. Sung K. Lim

*Mason Rencher Graff*

Thesis: "Micro-machined Electrical Field-flow Fractionation Systems with On-Column Electrical and Resonance Light-scattering Detection Modalities"

Advisor: Dr. Albert B. Frazier

*Julian Bennett Grizzard*

Thesis: "Toward Self-healing Systems: Re-establishing Trust in Compromised Systems"

Advisor: Dr. Henry W. L. Owen

*Rongqiang Hu*

Thesis: "Multi-sensor Noise Suppression and Bandwidth Extension for Enhancement of Speech"

Advisor: Dr. David V. Anderson

*Ajay Jayant Joshi*

Thesis: "Wave-pipelined Multiplexed (WPM) Routing for Gigascale Integration (GSI)"

Advisor: Dr. Jeffrey A. Davis

*Sung-Eun Kim*

Thesis: "Efficient and QoS-guaranteed Data Transport in Heterogeneous Wireless Mobile Networks"

Advisor: Dr. John A. Copeland

*Qiang Le*

Thesis: "Resource Management for Wireless Networks of Bearings-only Sensors"

Advisor: Dr. James H. McClellan

*William Franklin Leven*

Thesis: "Approximate Cramer-Rao Bounds for Multiple Target Tracking"

Advisor: Dr. Aaron D. Lanterman

*Alexandre Daniel Locquet*

Thesis: "Chaotic Optical Communications Using Delayed Feedback Systems"

Advisor: Dr. David Citrin

*Rohan Uday Mandrekar*

Thesis: "Modeling and Co-simulation of Signal Distribution and Power Delivery in Packaged Digital Systems"

Advisor: Dr. Madhavan Swaminathan

*Uzoma Anaso Onunkwo*

Thesis: "Timing Jitter in Ultra-wide-band (UWB) Systems"

Advisor: Dr. Ye Li

*Soner Ozgur*

Thesis: "Reduced Complexity Sequential Monte Carlo Algorithms for Blind Receivers"

Advisor: Dr. Douglas B. Williams

*Gi-Ho Park*

Thesis: "p-Refinement Techniques for Vector Finite Elements in Electromagnetics"

Advisor: Dr. Andrew F. Peterson

*Chirag Sureshbhai Patel*

Thesis: "Wireless Channel Modeling, Simulation, and Estimation"

Advisor: Dr. Gordon L. Stuber

*Yogesh Sankarasubramaniam*

Thesis: "New Capacity-approaching Codes for Run-Length-Limited Channels"

Advisor: Dr. Steven W. McLaughlin

*Dane Christoffer Thompson*

Thesis: "Characterization and Design of Liquid Crystal Polymer (LCP)-based Multi-layer RF Components and Packages"

Advisors: Dr. Emmanouil M. Tentzeris and Dr. John Papapolymerou

*Martin Tobias*

Thesis: "Probability Hypothesis Densities for Multi-target, Multi-sensor Tracking with Application to Passive Radar"

Advisor: Dr. Aaron D. Lanterman

*Babak Vakili-Amini*

Thesis: "A Mixed-signal Low-noise Sigma-Delta Interface IC for Integrated Sub-micro Gravity Capacitive SOI Accelerometers"

Advisor: Dr. Farrokh Ayazi

*Amit Verma*

Thesis: "Theoretical and Numerical Studies of Semiconducting Carbon Nanotubes"

Advisor: Dr. William R. Callen

*Dongxue Michael Wang*

Thesis: "Optoelectronic Device Simulation: Optical Modeling for Semiconductor Optical Amplifiers and Solid-state Lighting"

Advisor: Dr. Ian T. Ferguson

*Qing Zhao*

Thesis: "Advanced Synchronization Techniques for Continuous Phase Modulation"

Advisor: Dr. Gordon L. Stuber

## **Doctor of Philosophy Mechanical Engineering**

*Amarendra P. Atre*

Thesis: "A Finite-element and Experimental Investigation on the Fatigue of Riveted Lap Joints in Aircraft Applications"

Advisor: Dr. William S. Johnson

*Austin Hua-Ren Chen*

Thesis: "Integrated Inspection for Precision Part Production"

Advisor: Dr. Thomas R. Kurfess

*Marnico David Deladisma*

Thesis: "Accuracy and Enhancement of the Lattice Boltzmann Method for Application to a Cell-polymer Bioreactor System"

Advisor: Dr. Marc K. Smith





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*Joel David Fortgang*

Thesis: "Combined Mechanical and Command Design for Micro-milling Machines"

Advisor: Dr. William E. Singhose

*Ali Page Gordon*

Thesis: "Crack-initiation Modeling of a Directionally Solidified Ni-Base Super-alloy"

Advisors: Dr. David L. McDowell and Dr. Richard W. Neu

*Siva Prakash Gurrum*

Thesis: "Thermal Modeling and Characterization of Nanoscale Metallic Interconnects"

Advisor: Dr. Yogendra K. Joshi

*Sangil Han*

Thesis: "Mechanisms and Modeling of White Layer Formation in Orthogonal Machining of Steels"

Advisor: Dr. Shreyes N. Melkote

*Clifford Edgar Johnson*

Thesis: "Adaptive Control of Combustion Instabilities Using Real-time Modes Observation"

Advisor: Dr. Ben T. Zinn

*Kevin Stanley McFall*

Thesis: "An Artificial Neural Network Method for Solving Boundary Value Problems with Arbitrary Irregular Boundaries"

Advisor: Dr. James R. Mahan

*Michael Laine Mears*

Thesis: "Geometry Estimation and Adaptive Actuation for Centering Preprocessing and Precision Measurement"

Advisor: Dr. Thomas R. Kurfess

*Francis McCarthy Mess*

Thesis: "A Novel Sensor to Monitor Surface-charge Interactions: The Optically Stimulated Contact Potential Difference Probe"

Advisor: Dr. Steven Danyluk

*Jian Mi*

Thesis: "SiC Growth by Laser CVD and Process Analysis"

Advisor: Dr. W. J. Lackey

*Gregory Michael Mocko*

Thesis: "A Knowledge Framework for Integrating Multiple Perspectives in Decision-centric Design"

Advisors: Dr. Farrokh Mistree and Dr. David W. Rosen

*Vladimir Novak*

Thesis: "Experimental and Numerical Studies of Mist Cooling with Thin Evaporating Sub-cooled Liquid Films"

Advisor: Dr. Said I. Abdel-Khalik

*Reinhard Edison Powell*

Thesis: "Development of Convective Solder Reflow and Projection Moire System and FEA Model for PWBA Warpage Prediction"

Advisor: Dr. Ifeanyi C. Ume

*Jeffrey D. Rambo*

Thesis: "Reduced-order Modeling of Multi-scale Turbulent Convection: Application to Data Center Thermal Management"

Advisor: Dr. Yogendra K. Joshi

*Benay Sager*

Thesis: "Stereolithography Characterization for Surface-finish Improvement: Inverse Design Methods for Process Planning"

Advisor: Dr. David W. Rosen

*James Ellison Shepherd*

Thesis: "Multi-scale Modeling of the Deformation of Semi-crystalline Polymers"

Advisors: Dr. David L. McDowell and Dr. Karl I. Jacob

*Katharine Meghan Shilling*

Thesis: "Mesoscale Edge Characterization"

Advisor: Dr. Thomas R. Kurfess

*Heungjoo Shin*

Thesis: "Fabrication of Atomic-force Microscope Probes Integrated with Electrodes for Micro Four-point Probe and SECM-AFM"

Advisor: Dr. Peter J. Hesketh

*Bin Su*

Thesis: "Electrical, Thermomechanical, and Reliability Modeling of Electrically Conductive Adhesives"

Advisor: Dr. Jianmin Qu

# Master's Degree Candidates

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## Master of Science

Ashante Chevaghñ Allen  
Mechanical Engineering

Vikram R. Anreddy  
Electrical and Computer Engineering

Chinnakrishnan S. Ballapuram  
Electrical and Computer Engineering

Nathaniel Berenstein-Cervera  
Electrical and Computer Engineering

Erica D. Betts  
Civil Engineering

Shai Birmaher  
Aerospace Engineering

Gurashish Singh Brar  
Electrical and Computer Engineering

Joschi Tobias Brauchle  
Electrical and Computer Engineering

Svetlana Evgenyevna Bukharina  
Mathematics

Carlos E. Caballero  
Electrical and Computer Engineering

Mark Wesley Carroll  
Environmental Engineering

Jaime A. Chica  
Economics

Jonathan Austin Colby  
Aerospace Engineering

Jeffrey S. Davies  
Mechanical Engineering

Etienne J. Dufour  
Mechanical Engineering

Reid Pratt Eastburn  
Economics

Ehren Martin Ehmann  
Aerospace Engineering

Ryan Thomas Embree  
Aerospace Engineering

Charles Elliott George III  
Civil Engineering

Ryan Alan Gesser  
Environmental Engineering

Nicholas Brian Giglio  
Mechanical Engineering

Matthew Arthur Gottfredson  
Aerospace Engineering

Chikonga Devon Gwaba  
Civil Engineering

Nathan S. Hariharan  
Aerospace Engineering

Yihong He  
Aerospace Engineering

Christopher Michael Herndon  
Architecture

Johan Henrik Isaksson  
Electrical and Computer Engineering

Aliakbar Jafarpour  
Electrical and Computer Engineering

Mi Hyeon Jeon  
Civil Engineering

Vivian Errol Johnson  
Mechanical Engineering

So Young Kim  
Aerospace Engineering

Manabu Kimura  
Aerospace Engineering

Atay Kizilaslan  
Economics

Jeffrey Wayne Kock  
Civil Engineering

Michael Robert Koepp  
Aerospace Engineering

Gregory David Kolb  
Civil Engineering

Robert Deaver Kuykendall  
Civil Engineering

Leslie Elise Lamberson  
Aerospace Engineering

Xuebin Li  
Physics

Beatus Dominik Loeffler  
Electrical and Computer Engineering

Alexander Robin Marsaw Jr.  
Aerospace Engineering

Rithika Naidu  
Economics

Aniket Dilip Naik  
Electrical and Computer Engineering

Jayaprakash Natarajan  
Aerospace Engineering

Ifedinma Udukwesi Ofoma  
Chemical Engineering

Krista Joy Pallay  
Chemical Engineering

Pankaj Tejendra Parmar  
Electrical and Computer Engineering

Rossana C. Peralta  
Electrical and Computer Engineering

Parisa Pooyan  
Civil Engineering

Alexandre-Const Reibel  
Management

Ghislain Jean Retaureau  
Mechanical Engineering

Paul Benedict Shoemaker  
Aerospace Engineering

Jason Maurice Sims  
Aerospace Engineering



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Mark Allen Smith  
Aerospace Engineering

Tyler Lincoln Smith  
Mechanical Engineering

Rahul Ravindra Toley  
Electrical and Computer Engineering

Juan Felix Torres  
Electrical and Computer Engineering

Kavitha Vasudevan  
Electrical and Computer Engineering

Smita Vemulapalli  
Electrical and Computer Engineering

Inna Volyanska  
Economics

Jamal Omari Wilson  
Mechanical Engineering

Yi Yang  
Electrical and Computer Engineering

Yu Yang  
Electrical and Computer Engineering

Wei Zhou  
Electrical and Computer Engineering

#### **Master of Science in Paper Science and Engineering**

Cosmas Bayuadri  
Mariefel Bayta Valenzuela

#### **Master of Science in Quantitative and Computational Finance**

Anant J. S. Ahluwalia  
Wassim Albaridi  
Chinmay S. Bhide  
Dong Jin Chang  
Gaurav Chawla  
Yuyu Dai  
Keith D. Ellison  
Ekaterina A. Homyakova  
Rui Li

Rafael Lee Love  
Todd Warren Page  
Arnab Sarkar  
Lei Tian  
Sonal Varshney  
Brian Jennings West  
Wenjing Zheng

#### **Master of Science in Human-Computer Interaction**

Britt Magdalena Caldwell  
Clayton Jacob Hutto  
Aaron Michael Levisohn  
Amruta Satish Lonkar  
Matthew Mehall McKeon  
Jessica Grant McMillen  
Andrew D. Miller  
Yelena Nakhimovsky  
Allison Ann Sall  
Liyang Sun

Ja-Young Sung  
Tarang Taunk  
Arvind Venkataramani

#### **Master of Science in Bioengineering**

Gautam Goel  
Luis Nicolas Gonzalez-Castro  
Amy Rebecca Guinn  
Erika Rae Larson  
Ramaldo S. Martin  
Priscilla Anne Pennington  
Sandeep Prabhakara  
Simeon Kahlil Sessley  
Christopher Matthew Sinotte  
Dennis Dam Soerensen  
Sarah Marie West

#### **Master of Science in Polymers**

Anthony John Cascio  
Rui Liu

#### **Master of Science in Statistics**

Jinghui Bao  
Andre Biere  
Jong Phil Kim  
Pylyp Papush  
Yan Zhang

#### **Master of Science in Information Security**

Sunitha Beeram  
Shiroy Choksey  
Nicholas Preston Gibbs  
Francisco Cesar Robles  
Jason Aaron Trost  
Jeremy Dominic Viegas  
Joshua Alan Zaritsky

#### **Master of Science in Computer Science**

Ashok Babu Amara  
Roland Can Aydin  
Samir Batta  
Brian T. Berndt  
Sooraj Bhat  
Gaurav Bhatia  
Sylvain Herve Calais  
Bernadette Alexia Carter  
Clinton Jed Casper  
Ryan Scott Cavanaugh-Collins  
Christopher Thomas Church  
Graham Keith Coleman  
Andrew Todd Cox  
John William Cunningham III  
Philippe David  
Cyril Jean de Mengin Fondragon  
John Joseph Griffin  
Markus Arthur Haas  
Riyaz B. Habibbhai  
Christopher Alexander Hambridge



Hisham Rabih Harik  
 Jeffrey Joseph Hoerl Jr.  
 Jin Young Hong  
 Shrinivas Balkrishna Joshi  
 Dolapo Olumide Kukoyi  
 Neeraj Vibhasrao Kulkarni  
 Nipun Kwatra  
 Robert Kuan-Chun Liu  
 Heena Sharad Macwan  
 James G. Malcolm  
 Sama Intiaz Malik  
 Vaibhav Jainendra Padliya  
 Mahesh Sunil Palekar  
 Christopher Joseph Parnin  
 Robert Mitchell Parry  
 Christopher D. Patton  
 Todd Curtis Perry  
 David S. Pewzner  
 Duong Tan-Dung Phan  
 Grant Evan Schindler  
 Saurabh Anilkumar Shah  
 Leo Corley Singleton IV  
 Jaswanth Sreeram  
 Aajav Jyotindra Neeta Trivedi  
 Kristin Emma Vadas  
 Ariel Vardi  
 Gregory Scott West  
 McPherson LeMoyne White  
 Donghua Xu  
 Eric Yang  
 Jeffrey Yen

#### **Master of Science in International Affairs**

Jonathan R. Bonus  
 Sherron Lynn Burgess  
 Ryan Joseph Carter  
 Derrick Todd Hanson  
 Yavor Hristov Ivanchev  
 Kali Makeda Jordan  
 Jessica Claire Kirk  
 Megan Hughes Kirk  
 Jason A. Moullette  
 Dorottya Pap  
 Joseph Drewry Reid  
 Zdenka Rezacova  
 Jonathan Spencer Scanlon  
 Penelope Anne Simmons  
 Karen Tiffany Turner  
 K. W. Wade  
 Meghan Ashley Winsor

#### **Master of Science in Information Design and Technology**

Jason Michael Alderman  
 Calvin Odell Ashmore  
 Katherine Elizabeth Compton  
 Jeffrey Robert Crouse  
 Negar Farhi  
 Natalie Gene Funk  
 John Reagon Goetzinger  
 Madhur Khandelwal  
 Daniel M. Klainbaum  
 Sunil Singh Parihar  
 Kevin Hubert Quennesson

Matthias Shapiro  
 Melissa Paige Taylor  
 Benjamin John Tomassetti

#### **Master of Science in History and Sociology of Technology and Science**

Arthur Lewis Slotkin

#### **Master of Science in Public Policy**

Nooshin Ahangar-Mahalia  
 Mark Chalfant Albright  
 Ajay Sivaram Bhaskarabhatla  
 Pablo Catalan  
 Lynn Elizabeth Hartley  
 Nyema Maria Mitchell  
 Keisuke Nakao  
 Jenilee Shanks  
 Dean Scott Singley  
 Renata Amara Stanley  
 Elizabeth Stone Stapleton  
 Kristen Walden Thomas  
 Phaedra Marie Tucker

#### **Master of Industrial Design**

David Clayton Bingham  
 Clinton D. Cope  
 Junhua Gu  
 Walter Edward Hargrove III  
 David Frederic Lynn

#### **Master of Science in Building Construction and Facility Management**

Javier Alanis-Santos  
 Judah Cameron Bradley  
 Sharon Ferguson Brittain  
 Jene Malisha Bryant  
 Farnaz Farahaninia  
 Matthew Roger Gangi  
 Michelle Garami  
 Joseph Henry Hood Jr.  
 Hamed Haj Kazemkashani  
 Humberto F. Maio  
 Kendrick Ikeith Jermaine Morrison  
 Adam Thuman  
 Nantaka Udomphaiboonwong  
 Roderick Terrell Williams

#### **Master of Architecture**

Katharine M. Andersen  
 Marc Adam Clear  
 Kara Anne Cristaldi  
 Melissa Elizabeth Cruise  
 Lida Holley Cunningham  
 Jared Anthony Davis  
 Christy L. Dwileski  
 Kenneth T. Ellsworth  
 Dustin W. Fike  
 Lisa Michelle Fyan  
 Allison Lee Gander  
 Steven Sebastian Georgalis  
 Kristin Jean Halloran



Benjamin William Hudgins  
 Piyanut Patricia Itarut  
 Nathan Wood Johnson  
 Brian Michael Karlowicz  
 Kyle Vaughan Kessler  
 Do Young Kim  
 Joseph Anthony Lamb  
 Matthew John Lewis  
 Ying-Mu Lu  
 Mohamed Ahmed Mohsen  
 Akua Nadeene Owusu-Anti  
 Kuo-Yi Shen  
 Vinay Gajanan Shiposkar  
 Eric Montgomery Sorrells  
 Kendall Elizabeth Vann  
 Neil Weekley  
 Todd Robert Wrigley

#### **Master of City and Regional Planning**

Ellen Ann Anderson  
 Saskia J. Benjamin  
 Erica D. Betts  
 Chirayu J. Bhatt  
 Sean Michael Brady  
 Scott T. Brown  
 Stephen James Conschafter  
 Caroline H. Ellis  
 Michael Adam Epstein  
 Kevin William Fischer  
 Vanishree Herlekar  
 Sharon Barbara Hollis  
 Ying Huang  
 Kelly Margaret Huard  
 Rebecca S. Jablon  
 Crystal Leigh Jackson  
 Ajay Kanwar  
 Jeffrey Alan Lowe  
 Andrea Lee Lyman  
 Melissa Marie Mailloux  
 James Shelby Mayes  
 Erin Marie Musiol  
 Paul Ogilvie Norton  
 Anjanette Costales Nunez  
 Akua Nadeene Owusu-Anti  
 John Alexander Rees  
 Karen Ann Rugg  
 James Byron Rushing  
 Maia Ann Saffell  
 Lisa Marie Safstrom  
 Brian Christopher Stockton  
 Julie Christine Todd  
 Jonathan Louis Tremontozzi  
 Christian Fowler Volney  
 Jonathan Stephen Webster  
 Sandy Lynn Wexler  
 Matthew David Williamson

#### **Master of Science in Management of Technology**

Asim S. Qureshi  
 Christopher Lee Underwood

#### **Master of Business Administration**

Moses Ayodele Adedoyin  
 Olivier Aretz  
 Gary Warren Ash Jr.  
 Thibaud F. Basso-Brusa  
 Adam E. Berry  
 Rohit Bhagat  
 Qi Chen  
 Benoit Cotnoir  
 Adam Brian Crowe  
 Samuel A. S. Dambreville  
 Jason M. Daniels  
 Aldor H. Delp  
 James Dominic Depasquale  
 Marco Gero Fernandez  
 Balakrishnan Ananthan Ganesh  
 Jonathan D. Gavenda  
 Veronica Maria Georgalis  
 Andres Felipe Gomez  
 Daniel L. Gordon  
 Dominique Lee Hamilton  
 Susan Krider Hart  
 Robert Scott Henebry  
 Michael Ryan Hernacki  
 Jesse Stuart Hester  
 Shabbir Husain  
 Padmaja Jasti  
 Mayoora A. Joshi  
 Daniel Vexelman Kalina  
 Taewoo Kang  
 Yi-Shyang Sherry Kao  
 Vladimir V. Kulagin  
 Akhilesh Kumar  
 James D. Lanier Jr.  
 Choon Giap Lim  
 Sabrina Bergel Lipp  
 Gaoxiang Luo  
 David F. Nelson  
 Benjamin R. Neveu  
 Paul Ogilvie Norton  
 Dorottya Pap  
 Nikolaos Papageorgiou  
 Romano Patrick-Aldaco  
 Angel Tomas Peralta  
 Zachary Ryan Perkel  
 Jozef Purdes  
 Alexander Luis Quesada  
 William Jeffrey Ramsaur  
 Linda Dale Murphy Ray  
 Jack C. Roberts  
 Kelvin R. Rocha  
 Stephen P. Selfridge  
 Christie A. Senulis  
 Amiral Shakoorian  
 Konstantin A. Shkonda  
 Johnny L. Stallworth Jr.  
 James Howard Stefanakos  
 Jeffrey Harrison Stewart  
 Edward Sumner  
 Pei Sun  
 Suo Hsien L. Swanson  
 Adam C. Tichelaar  
 John C. Visser  
 Tomoyuki Watanabe  
 Jarrod Lee West  
 Emily A. Wise

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**Master of Science in Prosthetics  
and Orthotics**

*Vibhor Ramchandra Agrawal  
Eric Nmn Chen  
Annette Lynne Daly  
Samuel Matthews Hale  
Michael Edwin Hansen  
DeAnna Clough Oldani  
Jason Allan Ramsey  
Janelle Lisa Springer  
Jocelyn Sui-Yee Wong  
Shane Richard Wurdeman*

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

*Sawyer Ross Gosnell  
Kimberley Sue Hunter  
Jennifer Denise Newton  
Lokesh Pradeep Padhye  
Andrea Elizabeth Thompson*

**Master of Science in Psychology**

*Anne Edith Adams  
Kelly Erinn Caine  
Neta Ezer  
Brian Douglas Gane  
Jeffrey Thomas Lindsay  
Lisa Marie Mauney  
Matthew K. Minton  
Marita Anne O'Brien  
Sung Jun Park  
Thomas Scott Redick  
Raymond Mason Stanley  
Jennifer Rachel Tehan*

**Master of Science in Applied Biology**

*Brett B. Bartel  
Jessica Elaine Kollmeyer  
En Yun Loy  
Charles Robert Sheldon*

**Master of Science in Bioinformatics**

*Benjamin Gabriel Barwick  
Jonathan D. Gavenda  
Rahul Ghosh  
Vedang Harshadray Joshi  
Prashanth Kolli  
Zhi Sun  
Shilpakala Vasudevan  
Ryan Darlington Wagner*

**Master of Science in Mathematics**

*Nimeshkumar Chimanlal Bhakta  
Adem Cakmak  
Chang Chen  
Derrick Norman Hart  
Vidit Nanda  
Guillermo Andres Narsilio  
Aleksandr Vayner*

**Master of Science in Physics**

*Gilbert Bakia Ayuk  
Eva Maria Bookjans  
Andrew Mingning Cheung  
Ji Il Choi  
Joanna Rachel Hass  
Lan Sun*

**Master of Science in Chemistry**

*Margaret Johanna Doyle  
Peter Joseph Leech  
Horace H. Leung  
Mate Nagy  
Jareesa Elaine Tucker  
Di Wu  
Jie Xu  
Caiwei Zhang*

**Master of Science in  
Biomedical Engineering**

*Preeti Pandurang Shanbhag*

**Master of Science in Medical Physics**

*Jeremy Kane Dobbins  
Virginia Leonida Maniquis*

**Master of Science in Health Physics**

*Zubair Hussain Abbasi  
William Shaun Bosley  
Donald Rogers Delorey  
Carmen Maureen Greene*

**Master of Science in Health Systems**

*Cory Adam Handelsman*

**Master of Science in  
Nuclear Engineering**

*Zubair Hussain Abbasi  
James Warren Maddox  
Aliva Pattnaik*

**Master of Science in  
Operations Research**

*Yankai Aloysius Chen  
Ali Ekici  
Javier Estrella  
Kapil Gupta  
Burak Karacik  
Judy Sunyoung Lee  
Okan Orsan Ozener  
Lindy Shea Sellars  
Sriram Subramanian  
Robyn Diane Wood*

**Master of Science in  
Industrial Engineering**

*Aykagan Ak  
Tibor Banach*





Gayatri Kedar Diwan  
Benedikt Finkenauer  
Jason Michael Frost  
Bradley Ryan Gammill  
Rohan Nitin Gupte  
Brian Keith Hulett  
Hyukjoon Jang  
Lezlie Elizabeth Jones  
Manish Vithal Khokrale  
Jessica Claire Kirk  
Megan Hughes Kirk  
Michael Liebmann  
Sushant Ravindra Likhate  
Nisha Rajagopalan  
Carlos Andres Valderrama  
Yen-Tai Wan  
Peter Charles Weiland  
Sheng Xu  
Yufeng Yao

**Master of Science in  
Aerospace Engineering**

Bhuan Agrawal  
Santiago Balestrini-Robinson  
Benjamin Berry  
Hans Claus Christmann  
Ian Gault Clark  
Brian David Coslick  
John Michael Crane  
Daniel Robert Crowley  
James Dominic Depasquale  
Hossam Abd El-Raouf El-Asrag  
William Olin Engler III  
Timothy Andrew Eymann  
Scott Richard Francis  
Marco T. Gonzalez  
Luis Nicolas Gonzalez-Castro  
Takeshi Hakamada  
Kyu Seon Han  
Aaron Lavaughn Harcrow Jr.  
Peter Bartholemew Hart  
Jesse Stuart Hester  
Patrick Ryan Hughes  
Wendy Marie Hynes  
Spencer Ronald Irvine  
Gregory Felipe Ivey  
Russell Lane Joffrion  
Lindsay Allison Kaye  
Gregory Paul Leigh  
Sara Luis-Ruiz  
Matthieu Marc Masquelet  
Venkata Narasimham Nori  
Nicholas Pierre Benjamin Onufer  
George Musungu Oruoch  
Swapna Priya Patsamatla  
Zachary Reed Putnam  
David M. Reeves  
Joseph Martin Roop  
Alexandros Salazar  
Patrick Doyle Satyshur  
Michael Sielemann  
David Cheney Street  
Ian Collier Stults  
Robert Woodruff Thompson  
Michael Andrew Turbe  
Kuo An Louis Wei

Bryan William Wood  
Allen David Wu

**Master of Science in Materials Science  
and Engineering**

Peter F. Chamberlain  
Hua Hu

**Master of Science in  
Chemical Engineering**

Akua Asabea Asa-Awuku  
Stephanie Cecile Barthe  
Mark Glenn Gupta  
Karla Ann Dennis  
Brian Allen Gehrke  
Debalina Chakrabarty Siddeeq  
Ying Wang

**Master of Science in  
Environmental Engineering**

John Eric Eaglin  
Barbara Davis Lockwood  
Stephanie Joyce Lucero  
Arthur Currie Mixon  
Scott Wayne Rogers

**Master of Science in  
Civil Engineering**

JJohanne Baez Ayala  
Justin Andrew Bansen  
Lacy J. Bell  
Amanda Lauren Bezold  
Lisa Marie Bolton  
Jason Thomas Godfrey  
Nicholas George Hasara  
Tracy Lee Hendren  
Holli Erin Jones  
Ilker Kalkan  
Milan Katanic  
Lindsey Katherine Kerns  
Hoan-Kee Kim  
Steven Andrew Koch  
James Shelby Mayes  
Marcus J. Millard  
Jameelah Carol Muhammad  
Alphonso O'Connor  
Jamie Ellen Padgett  
Dustin Thomas Reed  
Brian Keith Sapp  
Matthew Scott Speicher

**Master of Science in Electrical  
and Computer Engineering**

Joel Abraham  
Mahurshi Harshachaitanya Akilla  
Daniel Jackson Allred  
William Wilford Asher III  
Karolyn Olatubosun Babalola  
Solenne Brigitte Marie Bastie  
Baptiste Jean Benezet  
Wade Allen Berzett  
David Bitton

Aurelien Boiteau  
 Pierrick Burgain  
 Russell Wyatt Burns  
 Luc Arthur Castera  
 Heloise Anne Elsa Cavalier  
 Eric Chang  
 Jean-Daniel Chevrier  
 Woosuk Choi  
 Paul Clais  
 Clement Henri Dieudonne  
 Huy-Nam Doan  
 Stuart Truax Duerson II  
 Siddharth Sangam Easwar  
 Jacqueline Anntionette Fairley  
 Pavlo Fedorenko  
 Mark McKay Filer  
 Justin Robert Fox  
 Dallas Lee Gamble  
 Sarah Ashley Hancock  
 Olivier Hanouille  
 Cyrus M. Harvesf  
 Nur Hayat  
 Michael Benjamin Healy  
 Gregory Thomas Heim  
 James Michael Holland  
 Paul Hominal  
 David Alan Keeling  
 Hammad Tahir Khan  
 Illenin Onyadouh Kondo  
 Sebastien Labrousse  
 Joseph Christopher Lee  
 Matthew Richard Leidy  
 Harry Bourne Marr Jr.  
 Fayez Mohamood  
 Juan Manuel Mojica  
 David Morain  
 Ibrahima Jacques Ndiour  
 Alan Huynh Ngo  
 Volkan Oktem  
 William Ernest Overton  
 Ryan Daniel Palkki  
 Marty L. Pannell  
 Zehra Parlak  
 Pierre Pazgrat  
 Aude Jeanne Pelletier  
 Patrick Thomas Phelan  
 Brent Wayne Potter  
 Patryk S. Prus  
 Fabrice Pascal Richard  
 Delphine Roussy  
 Ravikrishna Venkata Ruddarraju  
 Ali R. Saheb  
 Loic Salmona  
 Charles Antoine Salvat  
 Quentin Nicolas Savary  
 Samuel Lawrence Schoofs  
 Faisal Farooq Shah  
 Amir Shenouda  
 Ross Martin Smith  
 Eric William Stockwell  
 Erich Peter Stuntebeck  
 John Lane Thames  
 Quocthanh Minh Thuy  
 Sreenivas Vedantam  
 Morgann Jean Wauquier  
 William Edwin Webb IV  
 Paul Jen Wierzbowski  
 David Brent Windsor  
 Eric Keith Wingrove

Ying Han Xia  
 Farhana Zaman

## **Master of Science in Mechanical Engineering**

Amine Abid  
 Walid Maurice Abou-Jaoude  
 Martin Roberto Aguilera  
 Arnaud Andre  
 Amarendra P. Atre  
 Kevin John Au  
 Morgan Chase Bruns  
 Amanda Jonelle Busch  
 Mati C. Chessin  
 Adam Paul Christensen  
 Mark Robert Claffee  
 Andrew Edward Clarke  
 Justin Derry Crosby  
 Michael Christopher Dahlen  
 Kamalkishore Dasari  
 Barry Dwayne Densmore  
 Jean-Baptiste Flutte  
 John Lyle Fouts  
 Joseph Aaron Glanzman  
 Seke Gnahoua Godo  
 Samuel Aaron Golbuff  
 Joseph Neal Goodman  
 Clotilde Grimault  
 Bertrand Hasser  
 Christopher James Healy  
 Joshua F. Hicks  
 Ralph B. Hohenleitner  
 Christina Dawn Hruska  
 Michael John Hughes  
 Lander Ibarra  
 Robert B. Indech  
 Mohammad Kamran Jeelani  
 James Patrick Kitchen  
 Kevin Michael Klein  
 Andrew Cook Layton  
 Kevin Legris  
 Jay Michael Ling  
 Gregory Lintz  
 Nathan Daniel Lunetta  
 Lauren Beth Margolin  
 Kirk Alan Martin  
 Russell Kenneth Marzette Jr.  
 Larry K. McCarthy  
 Patrick Edward Mcdonald  
 Daniel Martin Moss  
 Michael Christopher Muir  
 George Joseph Nelson  
 Frederick Joel Olive  
 Vlad Peter Patrangenaru  
 Marcel Tuan Phan  
 Shannon Robert Pine  
 Rahul Dilip Sathe  
 Erich Hans Schlender  
 Andrew Robert Schnell  
 Dmitry Iosifovich Shlyubsky  
 Wendy Michelle Siemens  
 Erik Oscar Sunden  
 Randy Wadie Tadros  
 Gregory Richard Uhrhan  
 Mark Jordan Varady  
 Raghvendra Vijaywargiya  
 Karl Frederick Zedell Jr.



# Bachelor's Degree Recipients

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## College of Computing

### Bachelor of Science in Computer Science

#### Highest Honor

Matthew Gary Bowman  
James Philip Case  
Nicholas Wayne Cotton  
Brian DiRito  
Mark Gregory Duckworth  
Charles Beckwith Etzel  
Andrew Michael Gardner  
Andrew Russell Guillory  
Seth A. Horrigan  
Brittany Diane-Rebecca Hughes  
Atish Kalyan  
Joshua Marks Laseter  
Sanghyun Lee  
Andrew Joseph Lieftring  
Michael Anthony Messa  
Hai Dai Nguyen  
Nicholas Eugene Smith  
Tyler Patrick Tarwater  
Arwa Zohar Tyebkhan  
Vladimir Urazov  
Jason Christopher Wallace  
Matthew David Winter

#### High Honor

Roy S. Armstrong Jr.  
Nicholas Lewis Baughman  
Elizabeth Ashley Durham  
Gabriel Lawrence Heim  
Allison Christine Jensen  
Cheol-Woo Jung  
Jung Soo Kim  
Andrew Corley Knight  
David Andrew McCann  
Kamaram Munira  
Michael Ray Norris  
Edward van der Heijden  
Christopher Beneker Wells  
Evan Hart Zasoski

#### Honor

Blake William Bauser  
Kenneth Michael Cranford  
Tomas Filip  
Jason Handschuh  
Hitesh Ratnakar Kanwathirtha  
Juan Carlos Kuruvilla  
Uri Yisrael Mandelbaum  
Jonathan David Rice  
Robert Andrew Sayman  
Elizabeth Efua Solomon  
Kimberly Jennifer Spreen  
Scott A. Thompson

#### Mostafa Alattar

Keith J. Alexander  
Amin Muhammad Nisar Ali  
Dannon Jeremiah Baker  
Jesslyn Faith Beattie  
Sashmit Bhaduri  
Ryan Matthew Burke  
Jeffrey Michael Chelko

Stephen Alexander Congo  
Erik Gregory Derenne  
Adam Christopher Michael Edwards  
James Anthony Espejo  
Justin Thomas Friel  
Daniel Kengo Funaki  
James Gibson Fusia II  
Caleb Gene Galeas  
Colin DeLeon Gillens  
Christopher Jenkins Gooley  
Daniel Harvey  
John Dixon Hay  
Daniel Conrad Hernandez  
Jennifer Aline Hill  
Christopher David Hood  
Ali Ihsan  
Justin Robert Kronz  
Suraj Murli Lalchandani  
Kien Binh Lam  
Daniel Michael Lang  
Chee Soon Lee  
Mark Alan Lewis  
Thang Ly  
Dillon Nikue Mahmoudi  
Adam Malinowski  
Lena Mehrabian  
Lawrence Wayne Olson  
Ejike Uzochukwu Onyekwuluje  
Daniel Lee Osiecki  
Matthew E. Parcell  
Veronica Nicole Peshterianu  
Matthew F. Peter  
William Walter Phillips  
John William Plaxco  
Michael Gregory Rexroad  
Benjamin Daniel Reynolds  
Christopher William Rogers  
Christopher David Russell  
Albert William Sacks  
Chris Scheibe  
Ryan Scott Seekely  
Michael Andrew Selik  
Nirav Kantilal Shah  
Christopher Ryan Sidi  
Stanca Laura Silaghi  
Jason Pich Sirichoke  
Forest Andrew Skaggs  
Carlo Florentino Tambugatco  
Vasily Vladimirovich Vylkov  
Liang Wen  
Danish Ahmed Zia

### Bachelor of Science in Computer Science Cooperative Plan

#### Highest Honor

James Richard Bailey  
Adam Mark Bernstein  
Kelsey Martin Francis  
Michael Miles Odom  
Jeffrey Michael Yunes

#### High Honor

Steven Richard Fennell Jr.  
James Robert McKoon Jr.  
Eric Michael Medin  
Michael John Strauch

**Honor**

Andrew Wells Howard

Byoung Choul Kang

Justin David Barber

Peter Yarema Budny

Sanjay Kiran Deshmukh

Brittany Brooke Garrison

Chung Hoon Kim

Paolo Rugero Mentonelli

Katrina Janette Pickett

Marshall Ray Sanders

**Bachelor of Science in  
Computational Media**

**Highest Honor**

Robert I. Fitzpatrick

*Iran Allen College of  
Liberal Arts*

**Bachelor of Science  
in Public Policy**

**Highest Honor**

Saira Fatima Amir

Summer Claire McWilliams

Stephen A. Monnier

Puja Radhesh Patel

**High Honor**

Gray Ellen McGinnis

**Honor**

Jessica A. Goulding

Josie Rose Papa

Melody Joy Pugh

Kai Nicole Williamson

Jolea Tanese Bryant

Erin Michelle Glantz

Alex Samuel Rich

Alejandro D. Suarez

**Bachelor of Science in History,  
Technology, and Society**

**Highest Honor**

Ashley Ruth Boulineau

Elizabeth Weck Darnall

Andrew Thomas Roberts

**High Honor**

Anna Rohan King

Lauren Ashley Ray

Omar A. Billy

Todd Jamison Crafton

Kenton Hemington Johnson

Timothy M. King

Carolyn Elise Krigline

Carson Burgess Parker

James Edward Reid Jr.

Kevin Mikal Shelton

Larry Obadiah Stokes

**Bachelor of Science in  
Computational Media**

Musa Siddeeq

**Bachelor of Science in Science,  
Technology, and Culture**

**Highest Honor**

Shruti Ashok Desai

Erin Gatlin

Torey Patrick Haas

Tracee Joy Howard

Benjamin Ernest Jones

Shelly Lynn Krueger

Corrie Ann Navarro

Corali Noguerras

Laura Anne Rich

**High Honor**

Gary Luke Batchelor

Karen Elizabeth Donaldson

Crystal Denise Mayberry

Rebecca Ellen Roach

**Honor**

Michael Kwon Hong

Patricia Marie Kennedy

James Joseph Monaco

Amelia Gabrielle Shackelford

Angela Dyan Baker

Geoffrey Steven Braiman

Shih-Lun Chen

Margaret Mary Eiden

Jason Woodrow Ellis

Carol Hsu

Tatille Salena Jackson

William Matthew Malone

Katie L. Owens

Rhonda Jovan Sadler

**Bachelor of Science in International  
Affairs and Modern Language**

**Highest Honor**

Christine Dehn

Kyle Allen DuPont

Ryan Andrew Fisher

Ashley Annette Kracke

Kristin Marie Lundberg

Pierce Kent MacMillan

Kara Kristen Mobley

Melissa Anne Scholz

Simeon Robert Spearman II

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**Bachelor of Science in  
International Affairs**

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**Bachelor of Science in Economics  
and International Affairs**

Highest Honor  
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Honor  
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**Bachelor of Science in Global  
Economics and Modern Language**

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**Bachelor of Science in Economics**

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Warren Benjamin Currie  
Benjamin Richard Deneweth  
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*College of Architecture*

**Bachelor of Science**

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Silas Shane Gattuccio  
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Annapurna Akkineni  
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Albin Peyron Spangler  
Shutida Srikanthana  
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Stefanie Anne Wahl  
Natalie Lynne Ward



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**Bachelor of Science in  
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*Jennifer L. ynn Sigg*

*Matthew Thomas Toner*

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*Justin Cameron Stutts*

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*Taylor Aaron Stratton*

*Angela Rae Alverson*

*Lucas Azer*

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*Kevin Andrew Cablik*

*Jeffrey Michael Cass*

*Johnathan Dewayne Jackson*

*Jason Jeffrey Kiefer*

*Gregory Robert Munna*

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*Heidi Lee Schlansker*

*Charles Gary Womack*

*Gregory Andrew Wood*

**Bachelor of Science in  
Building Construction  
Cooperative Plan****Highest Honor**

*LaTaunynia Latreece Campbell*

**Bachelor of Science in  
Industrial Design****Highest Honor**

*Crystal Amber Collett*

*Jana Shelby Jamar*

**High Honor**

*George Kingman Bonnoitt Jr.*

*Bryan Leon Chamberlain Jr.*

*David Joe Igtiben Gutlay III*

*Stephen David Michael Jones*

*Arthur Chao-Chung Wu*

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*Bryan Page Crosby*

*Fatma Mousa Elhammali*

*Tan Fung*

*Sy-chyi Hwang*

*Ashley Kaye King*

*Jeff Quang La*

*Christopher Scott Baareman*

*James C. Bang*

*Katherine Claire Banks*

*Ceara Ann Byrne*

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*Adrienne Marie Goppold*

*Meagan Kathleen Johnson*

*Hoyt Avery Jolly IV*

*Aman Solomon Kidane*

*Matthew Gerald Lancaster*

*Donna Leung*

*Robert Andrew Mosby*

*Christopher Andrew Neiner*

*Benjamin Joiner Starr*

*Harry Shaw Strothers IV*

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*College of Management***Bachelor of Science  
in Management****Highest Honor**

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*Ashley Lynn Brown*

*Kendra Leigh Christensen*

*Savannah Leigh Colvin*

*Meredith Ryan Deal*

*Jodi Kalyn Feeley*

*Sunni Morrow Haag*

*Natanya Leah Harper*

*Michelle M. Hidalgo*

*Antoine Jones*

*Catherine B. Matthews*

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*Steven Richard Fennell Jr.*

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*Shivane Kumar Gupta*

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*Grace HyeKyung Sok*

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*Rick Alan Stone Jr.*

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*John Flanagan Wasinger*



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Tracy Lynn Camp  
Kari Lynn Cansler  
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Caroline Collette Gregory  
Thomas Grant Jordan  
Sarpreet Kaur Khera  
Michael Holt McPherson  
Brian Patrick O'Neill  
Javed Firoz Patka  
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Aaron Edward Sohacki

Grant McKay Adams  
Aneesa Lashay Ali  
Michael Bryan Amos  
Cristin Victoria Andrews  
Tabugbo Anyansi  
Siddharth Vijay Aranke  
Andrew Scott Aslakson  
Dorian Nicole Bafas  
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Daniel Edward Bell  
Esther Nima Bonam  
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William Jackson Burris  
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Megan Elizabeth Harpring  
Thomas Pierce Herrin  
Bradley Truett Honeycutt  
Warren Alton Hood III  
Christin Leigh Hubbard  
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Anil Sultan Ismail  
Kristi Danielle Spivey Jackson  
Heather Ann Jeter  
April Nicole Johnson  
Naoto Mark Johnson

Thomas Alexander Johnson  
Rohit Suresh Kapai  
Nicholas Blake Kelso  
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Susan Lydia Kommeth  
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Jonathan Michael Layer  
Anthony Van Le  
Jae Hak Lee  
Michael S. Lee  
Scott Seo Yong Lee  
Shawn Hsih-Ying Li  
Chang Ching Lin  
Stephen Richard MacArthur  
Jonathan Douglas Majors  
Michelle A. Marten  
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Whitney Nichole McEntyre  
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Judianne Marie Medina  
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Neena Panjwani  
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Corrado Dino Sammarco  
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Hanson Rodgers Turner  
Kelly Ann Walser  
Monique Webster  
Mario Marcee West  
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Matthew Michael Young  
Sana K. Yousufi  
Royal Yu

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**Bachelor of Science  
in Management  
Cooperative Plan**

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Bryan William Grant  
William Brunson Lane  
Ryan David Lichtcsien  
Steven Thomas Nichols

High Honor  
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Honor  
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Jonas Carl Forrester  
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*College of Sciences*

**Bachelor of Science  
in Discrete Mathematics**

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

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**Bachelor of Science  
in Applied Biology**

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Erin Mauricia Dainer  
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Andrew Erling Johnsen  
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Emily Ann Matthews  
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James Curtis Tucker  
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Hazel Lee Wills  
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Michelle Lynn Wilson

**Bachelor of Science  
in Applied Biology  
Cooperative Plan**

Highest Honor  
Michelle Renee Tougas

**Bachelor of Science  
in Applied Psychology**

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Crystal Amber Collett  
Kristie Joy Fisher  
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Katy Leigh Riddle  
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Lana Holley Jones  
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Dorothy Hae Kim  
Lethia Lance Locascio  
Kwame Terrell McNeil  
Robert Michael Metger  
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**Bachelor of Science in  
Applied Mathematics**

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**Bachelor of Science  
in Applied Physics  
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**Bachelor of Science  
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Aaron Tyler Scruggs

Michael Ecker Fusia  
Philip Mathew  
Justin Lee Matthews  
Elisha Tamar Neumann  
Carlo Florentino Tambuatco  
Payam Vaghefi-Kia

**Bachelor of Science  
in Physics  
Cooperative Plan**

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**Bachelor of Science  
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Jaswinder Singh Kumar  
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Rachel Nicole Kenney  
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Joe William Chiles III  
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Jewell Nicole Foster  
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Kevin C. H. Hsieh  
Bradley Kyle Kirk  
Ryan Thomas Mulkeen

**Bachelor of Science  
in Chemistry  
Cooperative Plan**

Highest Honor  
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*College of Engineering*

**Bachelor of Science  
in Biomedical Engineering**

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Garrett William Astary  
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Josepha Agbodesi Ikhumetse  
Jun Yin Li  
Bhavesh D. Mehta  
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Christina Joy Duden  
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Kapil Jain  
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Auburn Kyle Elliott  
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Thomas Taylor Gibson II  
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Benjamin Bublick Katz  
Rohit Ramaswamy Kumar  
Kathryn Gray Lyall  
Herna Mansjur  
Ayanna Helena Miller  
Tashan Khojeste Mistree  
Mahati Lankala Reddy  
Ankita Pankaj Shah  
Briggs Joseph Smith  
Reena Ashok Taank  
Robert Nathan Thompson

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

Kathryn Jean Boehle  
Michael Anthony Sugar

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

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Kathleen G. Silver  
Charles Schenck Wiley

High Honor  
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Peter Clifford Cook  
Nicholas J. Danna  
William Gary Florkowski  
James Casey Hutchins  
Ryan Madraza Peterson

Rachel Anne Rose  
Sunil Smith

**Bachelor of Science  
in Computer Engineering  
Regional Engineering Program**

Carl William Bonebright  
Robert Christopher Hobbs  
Justin Michael McDaniel  
Steven Alexander Vaughn

**Bachelor of Science  
in Computer Engineering**

Highest Honor  
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Igor Pinheiro Borges  
Alexei Ilich Dachevski  
Ryan Matthew Diestelhorst  
Eric Nelson Glass  
Siddhartha Kasivajhula  
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Abraham Moris Lapscher  
Edward Alexander Singh  
Michael Robert Stewart  
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High Honor  
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Nabil Thiab Taha

Saneesh Sadashiv Apte  
Varun K. Bapna  
Allen Michael Brewer  
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Keon Padrell Copeland  
Gareth M. Cox  
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Shreyas Mahendra Patel  
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Aditya R. Ramakrishnan  
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Vikram Sivakumar  
John Raymond Sweet  
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**Bachelor of Science  
in Computer Engineering  
Cooperative Plan**

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Yu Feng  
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Clinton James Smith*

**Honor**

*Gregory Michael Sheridan*

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Jonathan Reece Pegues*

**Bachelor of Science in Nuclear  
and Radiological Engineering**

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Adam Thomas Jones  
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**High Honor**

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Charles Payne Wells  
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**Bachelor of Science in Nuclear  
and Radiological Engineering  
Cooperative Plan**

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*Christopher Joseph Fong*

**Bachelor of Science  
in Industrial Engineering**

**Highest Honor**

*Melissa Kay Cataldo  
LokHang Kevin Chan  
Samuel Jan Chang  
Janice Kwai-Chun Choi  
Justin Weitseng Chong  
Shruti Ashok Desai  
Elsa Frieri  
Vera Faustina Halim  
Holly Elizabeth Hinkle  
Sameer Jiwani*

*Stawan Rajesh Kamani  
Kevin William Keene  
Tuan Quoc Lam  
Amie Marie Mann  
Christina Lee Moy  
Rodrigo Pemuelier  
Lindsay Lauren Phillips  
Elizabeth Ann Rybacki  
Nidhi Shah  
Saw Marlar Soe  
Rebecca Ann Stark*

**High Honor**

*Sapan Agrawal  
Daniel Le Huynh  
Laura Michelle Pate  
Neelima Patibandla  
Paul Supawanich  
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*Leanne Cathleen Asip  
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George Orin Boone  
Jeffrey Patrick Chenoweth  
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Susan Michelle D'Angelo  
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Peyton Loring Hoshall  
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Jason Matthew Shehane  
Rupangini Singh  
Kevin Bond Siu*

*Mayer Abbo  
Mohamed Mamdouh Abu-Karam  
Anu Radha Addanki  
Benjamin Forrest Arndt  
Arash K. Babazadeh  
Rina Bala  
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Tera Lee Bates  
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Omolola M. Bolarinwa-Keita  
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Phillip Aaron Oscar Campbell  
Parkinnio L. Chan  
Tanvir Abbas Chouhan  
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Thomas Felton Cuffie II  
Raymond DeMelfi  
Deniz F. Ener  
Alejandro Esteban Escudero  
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 Thomas Alexander Johnson  
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 Manpreet Kaur Khera  
 Davis Yeon Kim  
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 Wade C. Miller  
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 Jeffrey Matthew Parker  
 Michelle Lynne Piver  
 Shannon Elizabeth Pratt  
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 Catherine Elizabeth Spoth  
 Lamar Demetrius Stewart  
 Matthew Johnson Stewart  
 Alan Tam  
 Gerald Ryan Taylor  
 Ty A. Vernon  
 Rachel Ellen Weinstein  
 William Jacobs Wisler  
 Scott Ariel Wood

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 Daniel Steven Porter  
 Ketan Jayant Sardeshmukh

High Honor  
 Luke Nathanael Haag  
 Kristy Lee Hanson  
 Jessica Lauren Kirsch

Honor  
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 Whitney Bright Hibbard  
 Jennifer Lynn Wahal

Dustin Keith Aspray  
 Andrew Ryan Brazell  
 Susan Patricia Coil  
 Sarah Lynn Cunningham  
 Jason Nicholas Daley  
 Michael Robert Gurz  
 Steven Anson Hammond  
 Erik Lalzuia Kristjanson

Judy Ann Kuo  
 Michael Cassius Moerlins  
 Molly Ann Moore  
 Jason Lenton O'Neal  
 Matthew Lamont Pringle

### **Bachelor of Science in Aerospace Engineering**

Highest Honor  
 Dale Curtis Arney  
 Sean L. Barnes  
 Aurelien Drevon  
 Kevin Witt Flaherty  
 Jonathan Conrad Gladin  
 Sarah Ellen Hornbeck  
 Joseph Vincent Iacobucci  
 Ion Leahu-Aluas  
 Brandon Douglas Luders  
 W. Gregory McCormick  
 Ellis Randall Moser  
 Steven William Moynan  
 Stephen Andrew O'Keefe  
 Juan Ignacio Orphee  
 Joseph Charles Schulz  
 Carlos Xavier Soto-Gonzalez  
 Chirag Talati  
 Erin Christine Williams  
 Kunning Xu

High Honor  
 Michael David Abraham  
 Todd Basile  
 Kia Davidson  
 William Carlton Doncaster  
 Bryan Christopher Garman  
 Adam Joseph Knez  
 James Austin Nally  
 Walter Andrew Newell  
 David Douglas Redwine  
 Elizabeth Zilin Tang  
 Jeremiah James Robert Tootle

Honor  
 Paul Simpson Brett  
 Matthew Gamble Brigman  
 Brian Ehrlich Corner  
 Andrew Stephen Earl  
 Justin Benjamin Gomes  
 David Michael Kocher  
 Seung Jae Lee  
 Bryan Chun Wang Li  
 David Andrew Link  
 Douglas Richard Niggley  
 Koji Noguchi  
 Matthew Alexander Prior  
 Cody G. Schafer  
 Alexander Radu Teodorescu  
 Brandon Micheal Tomlinson  
 Tim Wang

Mark Edward Anderson  
 Daniel John Angelosanto  
 Eric David Aufderhaar  
 Prashanta Bagchi  
 Jeremy James Bain  
 Peter Jacob Barner  
 Aaron Nathaniel Bignault



Tanya Marlaine Blackwell  
 Richard L. Boyd  
 Clayton David Carpenter  
 Kenneth Daniel Cooksey  
 Peter Andrew D'Carlo  
 Hunter Mathews Dreidame  
 Joseph Russell Elliott III  
 Glenn Eschmann Fisher  
 Lucas Marin Garza  
 Chrystine M. Gorman  
 Katherine Allison Hall  
 Stephen Ross Hampton  
 John Thomas Hoblack  
 Stephen B. Hopkins  
 Christopher Craig Hudson  
 Joshua Reid Hunter  
 Eli Christopher Liechty  
 Amanda Elaine Lowry  
 Douglas M. Martin  
 Sara Genevieve Morris  
 Gabriel Mitchel Morrow  
 Marika Naruse  
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 Marc Alan Orwick  
 Dominic Biagio Prestifilippo  
 Matthew Jackson Price  
 Scott Elliott Putnam  
 Eric Michael Rader  
 Sarah Beth Riley  
 Jeffrey Patrick Roche  
 Joshua Aaron Rosen  
 Justin Ruiz  
 Corrado Dino Sammarco  
 Charles Edward Schaffer III  
 Matthew D. Smith  
 Joshua William Stephenson  
 Matthew David Stone  
 Daniel Joshua Sullivan  
 Jay Conrad Clatterbaugh Torres  
 Mitsuyo Tsuda  
 Ravi Arvind Vanmali  
 Kevin Michael Moncus Watson  
 Brandon Keith White  
 John Mosby Williams  
 Waqar Hassan Zaidi

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

Highest Honor  
 John Curtis Divinon Bateman  
 Robert John Jurenko  
 Daniel Patrick Kerns  
 Stephen Allen Medley Jr.  
 Patrick Adam O'Leary  
 Damon Alexander Rousis  
 Virginia Kristen Teague  
 Evan Randolph Wolfe

High Honor  
 Kelly Griendling  
 Vadim Kim  
 Rebecca Oliver Shoaf

Honor  
 Frank Anniston Hay  
 Sean Elliot Tamblyn

Christopher Deshaun Booth  
 Christopher M. Cassidy  
 William Howard Evans III  
 Anthony Domenic Foulke Jr.  
 Jesse Brie Twyman

**Bachelor of Science in  
 Chemical and Biomolecular  
 Engineering**

Highest Honor  
 Safdar Abbas Ali  
 Stephen A. Baehl  
 Victoria Lynne Balcer  
 Shane Louis Bechler  
 Justin W. Gregg  
 Osama Nezar Kashlan  
 Steven Louis Parente  
 Abigail Friederike Joyce Pynn  
 Craig Alan Simpson  
 Blake Alexander Stair  
 Kathryn J. Ussery

High Honor  
 Joseph Lloyd Konecny  
 Joseph Christian Kramer  
 Rebecca Maria Ugalde  
 Courtney Layne Wolfe

Honor  
 Esinam Deniece Glakpe  
 Ryan Scott Lewis  
 Dong Lindsey Hee Oh

Olusegun Agbato  
 Charles Matthew Baker  
 Zizwe Atiba Chase  
 John Aubrey Cole  
 Michael McMahon Enos  
 Alexis Nicole Fairweather  
 Jonathan Michael Freitag  
 Derrell Griffin Fulmer  
 Roderick Noel Galan  
 Christopher Brian Austin George  
 Khundakar R. Haq  
 Randall Steven Hays  
 Kai Pong Lam  
 Matthew Randall Lanius  
 Madina Mugisa  
 Robert Lee Powell Jr.  
 Jovy Elizabeth Roach  
 Kyle Sean Ross  
 Angad Singh Sawhney  
 Abhishek Nikhil Shah  
 Wibawa Tanutama  
 Alexandra Lauren Taylor  
 Jennifer Lauren Toth  
 Jarrod Bernard Whitfield

**Bachelor of Science in  
 Chemical and Biomolecular  
 Engineering  
 Cooperative Plan**

Russell David Blatt  
 Christopher Sidney Holshouser  
 Michael Andrew Riddle

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**Bachelor of Science in Textile  
Enterprise Management**

*Asha Stacey-Layne Parian*

**Bachelor of Science in Polymer  
and Fiber Engineering**

Highest Honor

*Hillary Esther Davis*

*Christine Marie Grabowski*

High Honor

*Michelle Renee Schlea*

*Alexander Werner Klaas*

*Sarah Julia Lapp*

*Kelly Danielle Price*

*Jacob Joseph Tompkins*

**Bachelor of Science  
in Civil Engineering  
Regional Engineering Program**

Highest Honor

*Christopher David Blount*

*Christyn Dawn Wiederhold*

High Honor

*Robert Edward Fuller Jr.*

*Heather Rena Wilburn*

Honor

*Leslie Harrison Collins III*

*Chad Allen Grass*

*Joseph A. Leffek*

*Robert M. Sokoloski*

*Leon Hugh Couey*

*Jared Vincent Mock*

*Bealinda Marie Pell*

*Daniel Emory Pope*

*Robert Banks Tate*

*Eleazar Trevino III*

**Bachelor of Science  
in Civil Engineering**

Highest Honor

*Timothy George Brandstetter*

*Steven Daniel Buckley*

*Jonathan Tyler Coats*

*Douglas D. Cortes*

*Nicholas Joseph Crispell*

*Jason Thomas Crouse*

*Micha Brian Eccles*

*William Parker Johnson*

*Richard Matthew Kmack*

*Valerio Oricchio*

*Jan Michael Scott Jr.*

*Brett Daniel Vogt*

High Honor

*Zachary Lee Crumley*

*Timothy Scott Harris*

*Rodney Scott Larsen*

*Ryan Andres Lezcano*

*Sabrina Valdivieso*

Honor

*Steven Bradley Dollar*

*Corey J. Haygood*

*Rocky Brett Janney*

*Nathan Laird*

*Jason Lewis Kinnard Morris*

*Katie Kelley Newton*

*Brian William Waters*

*Stephen George Whittaker*

*Matthew Torr Wiesenfeld*

*Matthew Douglas Young*

*Jon J. Alberson*

*Butan Saed Amedi*

*Jason Brett Bach*

*Elisabeth Makay Bedingfield*

*John Hudson Bush*

*Robert Lee Cain II*

*Edwin Charles Callahan*

*Justin Andrew Clark*

*Langston Randolph Davis*

*Suzanne Elizabeth Duncan*

*Glenn Alan Folsom Jr.*

*Robert Polydore Hale*

*Thomas William Hogan*

*Rebecca Emily Hoover*

*Erik Alexander Houston*

*Janice Elaine Hutchins*

*Antonio Rene Inojal*

*Phillip Timothy Jackson*

*Kaysie Jimenez*

*Aries Chihyun Kuo*

*Nafisah A. Muhammad*

*Allen Martel Peninger Jr.*

*Daphne Rose Phillips*

*Eric William Rasmussen*

*Christopher Dylan Jones Thacker*

*Rachel Grace Watkins*

*Runako A. Whyte*

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

Highest Honor

*Paul Myron Hobson*

*Henry Benjamin Mason*

High Honor

*Charles Christopher Robertson*

Honor

*Andrea Megan Kinsel*

*Victoria Leonidovna Petrova*

*Jake Patrick Bendik*

*Jeffrey Allen Burns*

*Skylar Frederick Long*

*Emily Ann Yessick*



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**Bachelor of Science  
in Electrical Engineering  
Regional Engineering Program**

Highest Honor  
Barrett Michael Kimball

Olusegun Adeyemo  
Gregory Tyler Edenfield  
Keith R. Elkins  
Keenan DeJuan Gills  
Megattina Lewanna Jackson  
Huy Bao Nguyen  
Olakunle Olasola Olanubi  
Erin Lea Pennington  
Toni Popovic  
Lee Harold Stargell Jr.

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

Honor  
Wedrell Bennett Meeks Jr.

**Bachelor of Science  
in Electrical Engineering**

Highest Honor  
Jiayue Chen  
Daniel Mong Chu  
Tegan William Counts  
Ramon Dario Espinal  
Jeff Daniel Hutchins  
Neha Jain  
Zhen Liu  
Van Khanh Lu  
Thomas Michael Lyman  
Gregory Vincent McAllister  
Anuradha Menon  
Natasha Mittal  
Eric Raymond Muir  
Jayesh S. Patel  
Amin H. Rida  
Romeil Singh Sandhu  
Pranav Jitendra Sawjiany  
Ahmad Sharif  
Abhinav Tiwari  
Shashwat Yadav

High Honor  
Raselas Berhe  
Oscar Sebastian Burbano  
Austin Keiller Hampton  
Rikai Huang  
Seth Gregory Johnston  
Byungchil Kim  
Robert Christian Lee  
Qiyu Liu  
Akshay Pramod Nemlekar  
Thuan Nguyen Ngo  
Christopher Dean Olinde  
Divya Paidy  
Viral Patel  
Chad Edward Patterson

Randy Lee Roberts  
Carson Arthur Wick

Honor  
Vineet Chhangani  
Anita May-Haung Chow  
Patrick Steven Edwards  
Kevin Carter Gorman  
Derek Andrew Greene  
Han-Feng Hsu  
David Chapman Kline  
Robert Michael Lipsitz  
Hakeem Ali Ibrahim Mohamed  
Devin Andrew Porter  
Kimberly N. Richey  
Jonathan-Paul Colocar Sanchez  
Kunal K. Shah  
Andrew John Sullivan  
Richard Joe Yang

Mark Jeffrey Adams  
Chikaodili Edward Anyikire  
Adrian V. Barkley  
Sourjo Bir Basu  
Kevin Rawn Bryant  
Rocco Joseph Cannistraro  
Jeffrey H. Chang  
Brannon Ward Chapman  
Chun Cheng Chu  
Jianan Chu  
Chad Steven Cosby  
Braxton K. Davis  
Ian Patrick Dawson  
Alex Exavier Deya-Santiago  
Catherine Anne Glazer  
Sean David Grant  
Ramonn Forte Gullatt  
Maliha Habeeb  
Mark Alexander Hill  
Sohail NoorAli Hirani  
Brian Thomas Holman  
Gary K. Hsieh  
Michael Thomas Joe  
Christopher Reese Jones  
Danelle Elise Jones  
L. Thomas Kitchens  
Anuraag Kumar Lal  
Anthony Van Le  
Vinh T. T. Le  
Jason Hao Leung  
Lee Wilbert Lewis Jr.  
Chike George Lindsay-Ajudua  
John Shu-Hun Liu  
Dinesh Mantri  
Vivek Mehta  
ZacLyn Victoria Miller  
Daniel Dayvon Mitchell  
Christopher Ian Moore  
Erica Cheria Moore  
Bejean David Mosher  
Trai Son Nguyen  
Dustin Gerik Nieser  
Uchenna Raluke Obi  
Michael Timothy Lee Palmer  
Dipak Dashrathlal Patel  
Mukund Kiritbhai Patel  
Jonathan Akil Perkins



Brett Douglas Poche  
 Latoya Tameka Pratt  
 Kristen Nicole Rogers  
 William Joseph Samples  
 Nathan Joel Settembrini  
 John Andrew Seuss  
 Aditya Singhal  
 Kristin Lynn Stephens  
 Gary Vincent Sullivan  
 Drew Dominic Thomas  
 Marion Joyce Gonzales Tinio  
 Dung Kiet Ton  
 Joshua Ryan Trimble  
 Yves Bertrand Wamba-Kuete  
 Harris Chen Wang  
 Wesley Lanier White  
 Kai Chi Wong  
 Amged H. Yagi

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

Highest Honor  
 Brian Kenneth Edgerton  
 Mark Andrew Ewing  
 Steven Ernest Finn  
 Jonathan Brant Ivey  
 Michael S. Ivey  
 Paul Charles Pearlman  
 Amanda Louise Richards

High Honor  
 Maxim James Franke  
 Matthew Goeden Lenarz

Honor  
 James Anderson Cook  
 Claire Elizabeth-Heaner Patti

Jennifer Diane Brookover  
 Nathan Kyle Dobrofsky  
 Richard Oliver Dozier III  
 Leslie Oommen George  
 Matthew Wade Manning  
 Jason Douglas Page

**Bachelor of Science  
 in Mechanical Engineering  
 Regional Engineering Program**

Honor  
 William Casey English

James Denton Hardie Jr.  
 Scott Michael Meader  
 Charles Allan Settles  
 Robert Emory Taylor

**Bachelor of Science  
 in Mechanical Engineering**

Highest Honor  
 Adam Thomas Boyd  
 Phuc Vinh Dao  
 Michael Wayne Fritts  
 Travis Eli Gibson

Terry Matthew Hall  
 Christopher Robert Hannemann  
 Andrew James Henderson  
 Lisa Elizabeth Hightower  
 Douglas G. Hinckley  
 Daniel Ellis Hyer  
 Christopher Arthur Kaiser  
 Brian Alan Lockwood  
 Gavin Gibson McDonald  
 Ricardo Andres Molinos  
 Isaac David Penny  
 Alexey Podust  
 Matthew Gregory Prohaska Jr.  
 Kevin Michael Ray  
 Jennifer Kim Robinson  
 Jason James Savarese  
 Rohit Vardhan  
 Matthew Scott Wilson  
 Michael Thomas Zaucha

High Honor  
 Shelby Gregorie Lux  
 Daniel Scott Martyn  
 William John Moore  
 Joseph Antonio Sanchez  
 Joshua Opper Thalheimer  
 Jill Allison Vukmanic  
 Daniel Emmet Waugh

Honor  
 Jeremiah Joseph Couvillion  
 Sarah Han  
 Sean Paul Kline  
 Jeffrey Michael Kuntz  
 Hunter Ryan Moore  
 Hai Ngoc Pho  
 Nicholas Adam Roberts  
 Eng Kun Taing  
 Gregory Thomas Thibeaux  
 Evans Edward Thompson III

Seyed Jalal Aarabi-Taft  
 Michael Nicholas Alexander  
 Zachary Kenneth Barbre  
 Arlene Ferdous Kohitoor Bhuiyan-Khan  
 Lamar Rayshaun Blackmon  
 Nicholas Alan Boivin  
 David Maurice Brandenburg  
 David Ellis Broady Jr.  
 Atman Jagdeep Buch  
 Richard Leo Burge  
 Marc Andrew Cameron  
 Joshua Jeffrey Carter  
 Eric Jay Chang  
 Justin Chastang  
 Jamie Marie Cruce  
 Leland Curtiss  
 Jean Claude Davis  
 Joshua Brent Davis  
 Kenjie Leon Davis  
 Sean Christopher Davis  
 Brian David Etheridge  
 Jesse Weston Foley  
 Blake Daner Forbes  
 John Jacob Fuller  
 Stephen James Geyer  
 Elliott Kirk Glazer  
 Adam James Glover



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William Hunter Greene  
William Walton Plowden Hagler  
Christopher John Humphries  
Lee N. Huynh  
Chaka Montre Johnson  
Walker Clifton Jones  
Michael John Kalumba  
Adam Lawrence Kan  
Nicholas Peter Theodore Karnezos  
Towney Gilbert Kennard III  
Dale Sang Hyun Kim  
Woosup Lee  
William Clifton Ludwig  
Kirsten Ann Lundstrom  
David Edward Malphurs  
Manuel Marcel McMillan  
Benjamin Hart McWhorter  
Brent Alexander Miller  
Jared Dane Monroe  
Rhonda Ashanti Moore  
John Cook Norris  
Jinesh Pravin Patel  
Clinton Daniel Perry  
Michael Garrett Reno  
Bernaye Sadot Riley  
Steven Michael Rogers  
Yael Shimoni  
Brock Hunt Shrader  
Michelle Jean Siverd  
Chad Ryan Smith  
Paul Ronald Socha  
David James Spitz  
Andrew Christopher Timm  
Antroine C. Townes  
Javier Villa  
Richard Allen Warren  
Kerry Webster  
Andrew Williams Wernette  
Andrew Michael Whitehouse  
Jason Ashley Wise  
Eunice Yeowon Yoon  
Michael Ray Zagars

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

Highest Honor  
Christopher Robert Clarke  
Jon David Danielson  
Christopher Lee Golden  
Douglas T. Johnson  
Christopher Kantus  
Aaron Michael Lunt  
Thomas Russell Newton  
James Francis Nishimuta  
Andrew Clayton Simrell  
Robert Clyde Thiets  
Tyler Robert Warnock

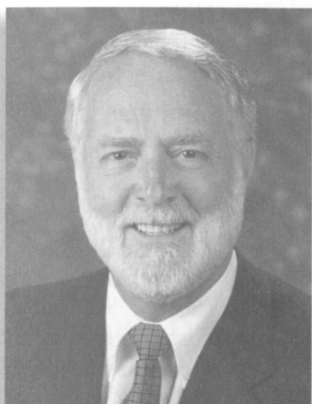
High Honor  
William Christopher Coleman  
Daniel Jackson Dillard  
Francis Everett Fearon  
Adam Graham Quarles  
David Andrew Sauer

Honor  
Larry Keith Baldree  
Jonathan Andrew Black  
John Terrance Harper  
Joseph Stephen Harper  
Elisha Beth Mellitz

Drew David Bartlett  
Stacy Marie Cook  
Michael Eric Harrison  
Philip Gabriel June  
Paul Jackson Kitchens  
Stephen Lee Laffoon  
Kenneth Paul McKay  
Caleb Miles Monk  
Manish Girish Patel  
Matthew Scott Rachford  
Jeremy Lashun Rodgers  
Pranav Pravin Shah  
Jesse Ellison Short  
Noelle Joy Smith  
Jason Buxton Turner

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

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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 doubled from \$212 million to \$425 million, a required computer initiative for all students was implemented, and enrollment has increased from 13,000 to 17,100. 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 2002 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. President Bush also nominated him to the National Science Board in 2004, and he is the only person to serve simultaneously on both of these national advisory bodies. Dr. Clough is vice chairman of the U.S. Council on Competitiveness and recently co-chaired the Council's National Innovation Initiative. He also chairs the Committee on New Orleans Regional Hurricane Protection Projects for the National Research Council and the National Academy of Engineering, and recently chaired the Engineer of 2020 initiative of the National Academy of Engineering. He serves as a special consultant to the San Francisco Bay Area Rapid Transit System for ongoing major seismic retrofit operations.

Closer to home, 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. For nine years, *Georgia Trend* magazine has listed him among the 100 Most Influential People in Georgia.

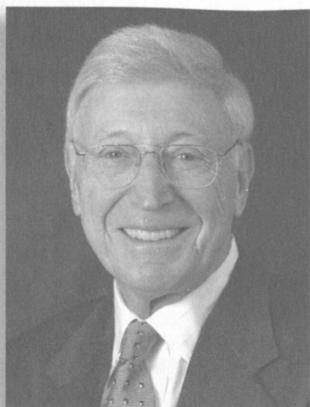
Dr. Clough's interests include technology and higher education policy, economic development, diversity in higher education, and technology in a global setting. His academic specialty is geotechnical and earthquake engineering, and he has published more than 120 papers and reports and 6 book chapters.



## Commencement Speaker

### Mr. Bernard Marcus

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Bernard Marcus is co-founder of The Home Depot Inc., the world's largest home improvement retailer. His company revolutionized the home improvement business with its warehouse concept. Chairman of the board until his retirement in 2002, he remains director emeritus and Home Depot's largest single stockholder.

From 1972 to 1978, Mr. Marcus was chairman of the board and president of Handy Dan Improvement Centers Inc., a home center retail chain. Prior to Handy Dan, he was president of O'Dell's, a manufacturing conglomerate, and vice president of Hard Goods Merchandising for Vornado Inc., a retail chain.

Mr. Marcus' personal civic involvement has been translated into the creation of The Marcus Foundation, where he serves as chairman of the board. His areas of focus include Jewish causes, children, medical research, free enterprise, and community support.

A centerpiece of his desire to give back to the community is the Georgia Aquarium, which recently opened in Atlanta. This \$290 million attraction is dedicated to the people of Georgia and the associates, customers, and shareholders of The Home Depot. With a total of 550,000 square feet and 8 million gallons of water, it is the largest aquarium in the world and houses more than 125,000 animals from 500 species.

In 1991, Mr. Marcus and his wife Billi established The Marcus Institute, which provides programs for children and adolescents with disorders of the brain and their families. An additional commitment in 1998 led to a national expansion when The Marcus Institute joined forces with the Kennedy Krieger Institute in Baltimore.

Among his prominent philanthropies is the founding of the Israel Democracy Institute, located in Jerusalem. This non-partisan and nonpolitical think tank serves as an important resource and change agent, dealing with the complex issues facing Israeli democratic society. Former U.S. Secretary of State George Shultz serves as honorary chairman.

Mr. Marcus serves in numerous leadership roles including The Shepherd Spinal Center, The City of Hope, The Marcus Jewish Community Center, and Business Executives for National Security. A native of Newark, New Jersey, Mr. Marcus received a bachelor's degree in pharmacy from Rutgers University.

## The Mace

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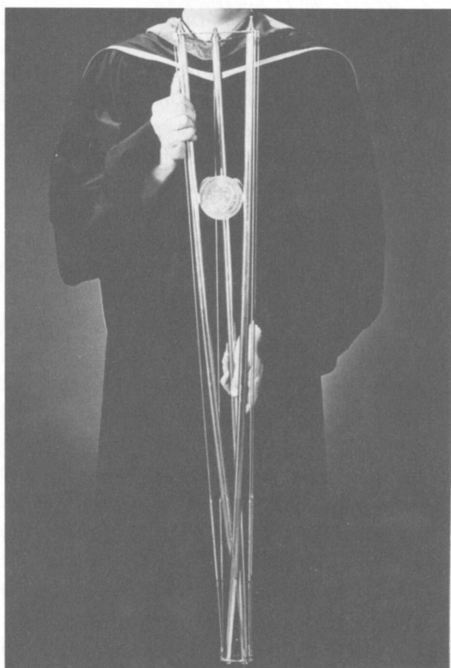
In academic ceremonies, the mace is an ornamental staff carried as a symbol of authority. The office of the mace bearer, though purely ornamental, dates back to medieval England when special occasions required the use of a bodyguard. In colonial America, the mace became a symbol of office when it was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





# *Academics, Research, and Athletics*

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## *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: the Georgia Tech 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 explore the crucial intersections of technology, the physical sciences, the humanities, and the social sciences. The College includes six degree-granting schools: Economics; History, Technology, and Society; the Sam Nunn School of International Affairs; Literature, Communication, and Culture; Modern Languages; and Public Policy. The College currently has 1,000 graduate and undergraduate majors.

Ivan Allen College is a nationally recognized leader in a range of fields

including digital information and interactive game design, educational technologies, Internet governance, international economics, international security, and the advancement of women in science and engineering, environmental policy, and technology policy. It offers a range of language and culture programs including the Languages for Business and Technology Program. It is also the home of Georgia Tech's Army, Navy, and Air Force ROTC units. Ivan Allen graduates have gone on to leadership roles in law, industry, government, and education.

## *College of Architecture*

The School of Architecture became the College of Architecture in 1975. In the fall of 2005, 748 undergraduate and 340 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 Technology Square 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.

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## *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 1,080 undergraduates, 180 graduate students, and 85 executive master's students in fall 2005, 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 2005, the College enrolled 1,039 undergraduate students and 768 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 fall 2005 full-time enrollment of 9,124 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; 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; H. Scott Howell, (1951) executive vice president (retired) Russell Corp.; James R. Jolly Jr. (1964), chairman and CEO, Johnson and Johnson Industries; John W. Keys III, (1964) commissioner, U.S. Bureau of Reclamation; Thomas J. Malone (1963), executive vice chairman (retired), Milliken and Co.; Sandra H. Magnus, (1996), NASA astronaut; David A. Perdue, (1972, 1976), chairman and CEO, Dollar General; Agustin A. "Gus" Ramirez, (1968, 1969), chairman, president, and CEO, Husco International; Malcolm T. Stamper (1946), vice chairman of the board, Boeing Co.; Robert T. "Bobby" Jones (1922), world-renowned golfer; Arthur Murray (1923), legendary dance instructor; and George W. Woodruff (1917), philanthropist.



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## *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 Jason Varitek; 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.

# Traditions

## 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 Bachelor's Degree:** The bachelor's degree is the oldest academic degree used by American colleges and universities. The degree, which represents completion of a four-year course of study, was first awarded in 1642 to the graduating class of Harvard College.

**The Master's Degree:** The master's degree represents the completion of one or two years of study beyond the bachelor's degree. The degree dates back to the oldest universities in Europe and 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.

## 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

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## Announcers

Bettina Cothran,  
Howard Y. F. Choy, and  
William Johnson

## Graduate Studies

Maureen Kilroy and  
Tatianna Matthews

## Institute Communications and Public Affairs

Aimee Anderson and staff

## Music Department

Frank Clark, Christine Marks,  
Ron Mendola, and Jerry Ulrich

## Plant Operations

Brandon Ford and Staging staff

## Registrar's Office

Candy Carson, LaWanda Cole,  
Ann Laros, David Lowery,  
Reta Pikowsky, 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.